

**Appendix A**  
**Air Quality/Greenhouse**  
**Gases/HRA Technical**  
**Memorandum**

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	City of Antioch		Stantec Consulting Services Inc.
File:	185705497	Date:	November 23, 2021

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**Reference: 5200 Lone Tree Way Gas Station – Air Quality Methodology and Assumptions and Results Technical Memorandum**

## **CRITERIA AIR POLLUTANT AND GREENHOUSE GAS MODELING PARAMETERS/ASSUMPTIONS AND RESULTS**

The following modeling parameters and assumptions will be used to generate criteria air pollutant and greenhouse gas (GHG) emissions for the 5200 Lone Tree Way Gas Station (project).

### **MODEL SELECTION**

The California Emissions Estimator Model (CalEEMod) is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and greenhouse gas (GHG) emissions associated with both construction and operations from a variety of land use projects. CalEEMod quantifies direct emissions from construction and operation activities (including vehicle use), as well as indirect emissions, such as GHG emissions from energy use, solid waste disposal, vegetation planting and/or removal, and water use. Further, CalEEMod identifies mitigation measures to reduce criteria pollutant and GHG emissions along with calculating the benefits achieved from measures chosen by the user.

CalEEMod was developed for the California Air Pollution Control Officers Association (CAPCOA) in collaboration with the California Air Districts. Default data (e.g., emission factors, trip lengths, meteorology, source inventory, etc.) have been provided by the various California Air Districts to account for local requirements and conditions.

CalEEMod version 2020.4.0 was used to estimate construction and some operational impacts of the proposed project.

### **AIR POLLUTANTS AND GHGS TO BE ASSESSED**

#### **Criteria Pollutants Assessed**

The following criteria air pollutants will be assessed in this analysis: ROG, NO<sub>x</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub>.

Note that the proposed project would emit ozone precursors ROG and NO<sub>x</sub>. However, the proposed project would not directly emit ozone since it is formed in the atmosphere during the photochemical reaction of ozone precursors.

**Reference:** 5200 Lone Tree Way Gas Station – Air Quality Methodology and Assumptions and Results Technical Memorandum

## **GHGs Assessed**

This analysis is restricted to GHGs identified by AB 32, which include CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, HFCs, PFCs, SF<sub>6</sub>, and NF<sub>3</sub>. The proposed project would generate a variety of GHGs, including several defined by AB 32 such as CO<sub>2</sub>, CH<sub>4</sub> and N<sub>2</sub>O.

Certain GHGs defined by AB 32 would not be emitted by the project. HFCs, PFCs, SF<sub>6</sub>, and NF<sub>3</sub> are typically used in industrial applications, none of which would be used by the proposed project. Therefore, it is not anticipated that the proposed project would emit those GHGs.

GHG emissions associated with the proposed project construction, and operations will be estimated using CO<sub>2</sub>e emissions as a proxy for all GHG emissions. Construction GHG emissions would be amortized over the lifetime of the Project. To obtain the CO<sub>2</sub>e, an individual GHG is multiplied by its GWP. The GWP designates on a pound for pound basis the potency of the GHG compared to CO<sub>2</sub>.

## **THRESHOLDS**

Nearly all development projects in the Bay Area have the potential to generate air pollutants that may increase the difficulty of attaining National Ambient Air Quality Standards and California Ambient Air Quality Standards. Therefore, for most projects, evaluation of air quality impacts is required to comply with CEQA. The BAAQMD has developed the CEQA Air Quality Guidelines to help public agencies evaluate air quality impacts (BAAQMD 2017). The BAAQMD's guide includes recommended thresholds of significance, including mass emission thresholds for construction-related and operational ozone precursors. The May 2017 version of the Guidelines includes revisions made to the BAAQMD's 2010 Guidelines to address the California Supreme Court's 2015 opinion in *Cal. Bldg. Indus. Ass'n vs. Bay Area Air Quality Mgmt. Dist.*, 62 Cal.4th 369.

The regional project-level emissions for the project will be estimated and compared to the BAAQMD thresholds for determining significance under CEQA.

**Table 1: BAAQMD Project-Level Air Quality CEQA Thresholds of Significance**

<b>Criteria Pollutants</b>	<b>Construction-Related</b>	<b>Operational-Related</b>	
		<b>Average Daily Emissions (lbs/day)</b>	<b>Maximum Annual Emissions (tpy)</b>
Criteria Air Pollutants and Precursors (regional)	Average Daily Emissions (lbs/day)	Average Daily Emissions (lbs/day)	Maximum Annual Emissions (tpy)
ROG	54	54	10
NO <sub>x</sub>	54	54	10
PM <sub>10</sub> (exhaust)	82	82	15
PM <sub>2.5</sub> (exhaust)	54	54	10
PM <sub>10</sub> /PM <sub>2.5</sub> (fugitive dust)	Best Management Practices	None	
Local CO	None	9.0 ppm (8-hour average), 20.0 ppm (1-hour average)	

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<b>Criteria Pollutants</b>	<b>Construction-Related</b>	<b>Operational-Related</b>
GHGs (projects other than stationary sources)	None	Compliance with Qualified GHG Reduction Strategy OR 1,100 MTCO <sub>2</sub> e/yr OR 4.6 MTCO <sub>2</sub> e/SP/yr (residents + employees)
GHGs – Stationary Sources	None	10,000 MTCO <sub>2</sub> e/yr
Risk and Hazards for new sources and receptors (Individual Project)	Same as operational thresholds	Compliance with Qualified Community Risk Reduction Plan OR Increased cancer risk of >10.0 in a million Increased non-cancer risk of > 1.0 Hazard Index (Chronic or Acute) Ambient PM <sub>2.5</sub> increase: > 0.3 µg/m <sup>3</sup> annual average <u>Zone of Influence</u> : 1,000-foot radius from property line of source or receptor
Risk and Hazards for new sources and receptors (Cumulative Threshold)	Same as operational thresholds	Compliance with Qualified Community Risk Reduction Plan OR Increased cancer risk of >100.0 in a million Increased non-cancer risk of > 10.0 Hazard Index (Chronic or Acute) Ambient PM <sub>2.5</sub> increase: > 0.8 µg/m <sup>3</sup> annual average <u>Zone of Influence</u> : 1,000-foot radius from
Accidental Release of Acutely Hazardous Air Pollutants	Non	Storage or use of acutely hazardous materials locating near receptors or new receptors locating near stored or used acutely hazardous materials considered significant.
Odors	None	Five confirmed complaints per year averaged over three years.

Notes:

CO = carbon monoxide

GHG = greenhouse gases

lbs/day = pounds per day

MTCO<sub>2</sub>e/yr = metric tons of carbon dioxide equivalent per year

MTCO<sub>2</sub>e/SP/yr = metric tons of carbon dioxide equivalent per service population per year

NO<sub>x</sub> = nitrogen oxide

PM<sub>2.5</sub> = particulate matter 2.5 microns or less in diameter

PM<sub>10</sub> = particulate matter 10 microns or less in diameter

ppm = parts per million

ROG = reactive organic gas

tpy = tons per year

Source: BAAQMD 2017

Reference: 5200 Lone Tree Way Gas Station – Air Quality Methodology and Assumptions and Results Technical Memorandum

## **ASSUMPTIONS**

### **CONSTRUCTION MODELING ASSUMPTIONS**

The construction schedule utilized in the analysis represents a “worst-case” analysis scenario since emission factors for construction equipment decrease as the analysis year increases, due to improvements in technology and more stringent regulatory requirements. Therefore, construction emissions would decrease if the construction schedule moves to later years. The duration of construction activity and associated equipment represent a reasonable approximation of the expected construction fleet as required per CEQA guidelines. Site specific construction fleet may vary due to specific project needs at the time of construction.

Table 2 provides the construction schedule and off-road equipment list for the construction of the convenience store, car wash, fueling pumps, and associated parking. Construction schedule is based on the Applicant’s assumption that construction will take place over an 8-month period (June 2022 to January 2023). Table 3 provides the number of vehicle trips to and from the project site during each phase of construction as well as the number of construction workers during each phase. According to the Applicant, the site will have on average 18 construction workers on the project site with a maximum of 30 workers at any one time. The proposed project will require approximately 640 cubic yards of excavated soil to be exported during the grading phase of construction as well as approximately 8,550 square feet of demolition debris. The number of hauling trucks required during the grading and demolition phases of construction are based on CalEEMod default truck sizes which assume a truck bed with a capacity of 16 CY or 20 tons. Hauling trucks are assumed to travel 22.3 miles to the Pleasant Hill Bayshore Disposal. The default trip length for worker and vendor trips was used in the modeling.

Construction emissions were totaled for each calendar year and divided by the total number of construction days to arrive at the average daily emissions. The average daily emissions were compared to the BAAQMD thresholds of significance.

Reference: 5200 Lone Tree Way Gas Station – Air Quality Methodology and Assumptions and Results Technical Memorandum

**Table 2: Project Construction Schedule and Equipment List – Waterside**

Phase	Start Date	End Date	Construction Equipment	QTY	HP	Load Factor	Hours of Use per Day
Demolition	6/1/2022	6/21/2022	Concrete/Industrial Saws	1	81	0.73	6
			Tractors/Loaders/Backhoes	3	97	0.37	6
			Excavators	1	158	0.38	4
			Skid Steer Loaders	1	65	0.37	6
Site Preparation	6/22/2022	6/23/2022	Graders	1	187	0.41	6
			Rubber Tired Dozers	1	247	0.40	6
			Tractors/Loaders/Backhoes	1	97	0.37	6
Grading	6/24/2022	6/29/2022	Graders	1	187	0.41	6
			Rubber Tired Dozers	1	247	0.40	6
			Tractors/Loaders/Backhoes	2	97	0.37	6
Building Construction	6/30/2022	1/4/2023	Cranes	1	231	0.29	0.18
			Forklifts	1	89	0.20	6
			Generator Sets	1	84	0.74	7
			Tractors/Loaders/Backhoes	1	97	0.37	3
			Welders	3	46	0.45	4
			Aerial Lifts	1	63	0.31	0.18
Paving	1/5/2023	1/18/2023	Cement and Mortar Mixers	1	9	0.56	6
			Pavers	1	130	0.42	6
			Paving Equipment	1	132	0.36	6
			Rollers	1	80	0.38	6
			Tractors/Loaders/Backhoes	1	97	0.37	6
			Welders	3	46	0.45	4
Architectural Coating	1/19/2023	1/31/2023	Air Compressor	1	78	0.48	6

Notes

The horsepower (HP) and load factor are based on the defaults for each equipment type.

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**Table 3: Construction Vehicle Trips**

Phase	Number of Workers <sup>1</sup>	Worker Trips per Day	Vendor Trips per Day	Total Number of Hauling Trips	Worker Trip Length	Vendor Trip Length	Hauling Trip Length <sup>2</sup>
Demolition	18	36	0	39	10.8	-	22.3
Site Preparation	18	36	0	0	10.8	-	-
Grading	18	36	0	80	10.8	-	22.3
Building Construction	30	60	9	0	10.8	7.3	-
Paving	18	36	0	0	10.8	-	-
Architectural Coating	18	36	0	0	10.8	-	-

Notes

1 – According to the Project Applicant, during construction there will be an average of 18 workers onsite at any given time with a peak of 30 workers. In order to conservatively estimate construction emissions, it was assumed that 18 workers will be required during demolition, site preparation, grading, paving, and architectural coating phases of construction while the peak 30 workers would be required throughout the entire building construction phase.

2 – Construction waste will be hauled to Waste Management's Pleasant Hill Bayshore Disposal, located approximately 22.3 miles from the project site.

Reference: 5200 Lone Tree Way Gas Station – Air Quality Methodology and Assumptions and Results Technical Memorandum

## OPERATIONAL MODELING ASSUMPTIONS

Operational emissions are those emissions that occur during operation of the proposed project. Operational emissions will be estimated for 2023, the first full year of operation. The sources are summarized below.

### Motor Vehicles

#### *On-road*

Motor vehicle emissions refer to exhaust and road dust emissions from the automobiles that would travel to and from the proposed project site. The trip generation rates for each phase of the project are shown in 4. Mobile on-road emissions will be estimated using CalEEMod.

**Table 4: Trip Generation Rates**

Land Use Type	CalEEMod Land Use Type	Unit	Weekday Average Daily Trip Rate	Saturday Average Daily Trip Rate	Sunday Average Daily Trip Rate
Car Wash	Automobile Care Center	1.13 ksf	10.22	23.72	11.88
Gas Station and Convenience Store	Convenience Market with Fuel Pumps	3.2 ksf	1,152.5	624.2	624.2
Parking Lot	Parking Lot	19 parking spaces	0	0	0
Other Asphalt Surfaces	Other Asphalt Surfaces	41.4 ksf	0	0	0

Notes:

ksf = 1,000 square feet

1. Weekday trip rates from Stantec Transportation Study, 2021. Weekend trip rates based on CalEEMod default assumptions. The Stantec Transportation Study calculated an average daily trip rate based on the number of trips per pump. The trip rate was updated within the modeling to calculate the total daily trips by 1,000 SF. Either trip rate results in an average daily trips for the market/gas station of 3,688.

### *Trip Lengths*

The CalEEMod default round trip lengths for an urban setting were used in this analysis. Commercial trip types are defined as Commercial to Commercial (C-C), Commercial to Work (C-W) and Commercial to Non-Work (C-NW). The CalEEMod defaults for each of the land uses were used for this analysis. The default trips lengths of 7.3 for C-C trips, 9.5 for C-W trips, and 7.3 for C-NW were also retained. Trip lengths are for primary trips. Trip purposes are primary, diverted, and pass-by trips. Diverted trips are assumed to take a slightly different path than a primary trip. All trips for



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the project were assumed to be primary trips. Table 5 includes the assumptions used within the modeling for trip lengths.

**Table 5: Operational Trip Lengths**

Land Use	Primary Trip Percentage	Diverted Trip Percentage	Pass-By Trip Percentage	C-C Trip Percentage	C-W Trip Percentage	C-NW Trip Percentage
Automobile Care Center	21	51	28	48	33	19
Convenience Market with Fuel Pumps	15.2	25.7	59.1	80.2	0.9	19

### **Vehicle Fleet Mix**

The vehicle fleet mix is defined as the mix of motor vehicle classes active during the operation of the proposed project. Emission factors are assigned to the expected vehicle mix as a function of vehicle class, speed, and fuel use (gasoline- and diesel-powered vehicles). The CalEEMod default fleet mix was used to estimate the trips to the site and the associated emissions. Table 6 provides the fleet mix used in the operational analysis.

**Table 6: CalEEMod Fleet Mix for Contra Costa County – Year 2023**

Vehicle Category	Default
LDA	0.56
LDT1	0.06
LDT2	0.18
MDV	0.13
LHD1	0.02
LHD2	0.005
MHD	0.007
HHD	0.007
OBUS	0.0005
UBUS	0.0003
MCY	0.03
SBUS	0.0012

Reference: 5200 Lone Tree Way Gas Station – Air Quality Methodology and Assumptions and Results Technical Memorandum

MH	0.0035
Total	1

Note: Numbers may not add to 1 due to rounding.

## Area Sources

### Consumer Products

Consumer products are various solvents used in non-industrial applications that emit ROG during their product use. These typically include cleaning supplies, kitchen aerosols, cosmetics and toiletries. The default CalEEMod value was used for this project for a light industrial land use.

#### General Category

Emission Factor (lb ROG/sqft/day): 0.0000214

#### Parking

Degreaser Emission Factor (lb ROG/sqft/day): 0.0000003542

### Architectural Coatings (Painting)

Paints release VOC emissions. The building would be repainted on occasion. CalEEMod assumes a 10 percent reapplication rate per year and an emission factor of 100 grams of ROG per liter for non-residential interior surfaces and 150 grams of ROG per liter for non-residential exterior surfaces.

## Energy Use

The emissions associated with the building electricity and natural gas usage (non-hearth) are estimated based on the land use type and size. The electricity energy use is in units of kilowatt hours per size metric for each land use type. Natural gas use is in units of a thousand British Thermal Units per size metric for each land use type. 7 provides a summary of the energy use of the building to be constructed onsite.

**Table 7: Operational Energy Use – Main Building**

Land Use Subtype	Title 24 Electricity Energy Intensity (KWhr/size/year)	Nontitle-24 Electricity Energy Intensity (KWhr/size/year)	Lighting Energy Intensity (KWhr/size/year)	Title-24 Natural Gas Energy Intensity (KBTU/size/year)	Nontitle-24 Natural Gas Energy Intensity (KBUT/size/year)
Automobile Care Center	1.32	3.70	3.08	19.51	6.67

**Reference:** 5200 Lone Tree Way Gas Station – Air Quality Methodology and Assumptions and Results Technical Memorandum

Convenience Market with Gas Pumps	2.46	2.68	5.25	2.34	0
Other Asphalt Surfaces	0	0	0	0	0
Parking Lot	0	0	0.35	0	0

### Water and Wastewater Use

Supplying and treating water for the project generates GHG emissions. Depending on the specific water supply used or treatment method used these numbers can vary over a wide range. Supplying water is bringing the water from its primary source such as the ground, river, or snowpack to the treatment plant. Distributing the water is bringing the water from the treatment plant to the end users. The electricity intensity factors are multiplied by the utility GHG emissions intensity factors for the GHGs and are classified as indirect emissions. The default electricity intensity is from the CEC's 2006 Refining Estimates of Water-Related Energy Use in California using the average values for Northern and Southern California.

Wastewater may also have direct emissions of GHGs. These depend on the type of wastewater treatment system (e.g., septic, aerobic, or lagoons).

The Applicant estimates that the proposed project will require 2,641 gallons of water day (gpd) or approximately 963,965 gallons per year (gpy). The total water use was applied for indoor water use and outdoor water use was reduced to zero. The car wash will use recycled water and, as a result, the Applicant estimates that the project will generate 1,894 gpd of wastewater or approximately 691,310 gpy. CalEEMod assumes 100% of indoor water use will become wastewater, since the model will not let the user override this default, the energy use from wastewater in this analysis represents a conservative estimate. Table 8 provides a summary of the water and wastewater energy use for the project.

**Table 8: Water and Wastewater Energy Use**

Source	CalEEMod Default
Electricity Intensity Factor to Supply (kWhr/Mgal)	2,117
Electricity Intensity Factor to Treat (kWhr/Mgal)	111
Electricity Intensity Factor to Distribute (kWhr/Mgal)	1,272
Electricity Intensity Factor for Wastewater (kWhr/Mgal)	1,911

### Solid Waste

GHG emissions are associated with the disposal of solid waste generated by the vehicle trips to transport solid waste from the proposed project into landfills. Project generated construction waste would need to be in coordination with diversion requirements of the City.

**Reference:** 5200 Lone Tree Way Gas Station – Air Quality Methodology and Assumptions and Results Technical Memorandum

During operation, the CalEEMod default solid waste generation rates were used for each land use. Waste disposal rates by land use and overall composition of municipal solid waste in California is primarily based on CalRecycle data. Table 9 provides the default solid waste generation rate.

**Table 9: Solid Waste Generation Rate**

Land Use	Size Metric	Solid Waste Generation Rate (tons/year)
Automobile Care Center	1000 SF	4.32
Convenience Market with Gas Pumps	1000 SF	9.62

### ***Fueling Emissions***

CalEEMod is designed to calculate the construction and operational emissions from land use development. The model is not able to capture the emissions associated with the sale and use of petroleum fuel. The Project anticipates selling approximately 8,000,000 gallons petroleum fuel per year. The sale of gasoline and diesel fuel will result in VOC emissions, the VOC emissions rate is provided in Table 10 and are based on United States Environmental Protection Agency's (U.S. EPA) gasoline dispensing calculator.

**Table 10: Emission Rates by Fuel Type**

Fuel Type	VOC Emissions Rate (tons/year/pump)
Pump	0.362

Source: US EPA. 2015. Gasoline Dispensing Calculator.

Reference: 5200 Lone Tree Way Gas Station – Air Quality Methodology and Assumptions and Results Technical Memorandum

## **HEALTH RISK ASSESSMENT MODELING PARAMETERS AND ASSUMPTIONS**

### **MODEL SELECTION AND PARAMETERS**

An air dispersion model is a mathematical formulation used to estimate the air quality impacts at specific locations (receptors) surrounding a source of emissions given the rate of emissions and prevailing meteorological conditions. The air dispersion model applied in this assessment was the United States Environmental Protection Agency (EPA) AERMOD (version 19191) air dispersion model. Specifically, the AERMOD model was used to estimate levels of air emissions at sensitive receptor locations from potential sources of project-generated TACs. The use of the AERMOD model provides a refined methodology for estimating construction impacts by utilizing long-term, measured representative meteorological data for the project site and a representative construction schedule.

The modeling analysis also considered the spatial distribution and elevation of each emitting source in relation to the sensitive receptors. Direction-dependent calculations were obtained by identifying the Universal Transverse Mercator (UTM) coordinates for each source location. Terrain elevations were obtained for the project site using the AERMAP model, the AERMOD terrain data pre-processor. Specifically, National Elevation dataset (NED) data for the area were obtained and included in the model runs to account for complex terrain. The air dispersion model assessment used meteorological data from the Livermore Municipal Airport 23285 Station. The meteorological data used was preprocessed for use with AERMOD by the BAAQMD and included data for the years 2009 to 2014; all years were used in the assessment. To evaluate the proposed project's localized impacts at the point of maximum impact, all receptors were placed within the breathing zone at zero meters above ground level.

### **CONSTRUCTION**

For the construction period, construction emissions were assumed to be distributed over the project site with a working schedule of eight hours per day and five days per week. Emissions were adjusted by a factor of 4.2 to convert for use with a 24-hour-per-day, 365 day-per-year averaging period.

Figure 1 shows a representation of the modeling parameters, including a 1,000-foot buffer, the project area (construction area source), modeled roadway segments, existing buildings, and locations of sensitive receptors.

Reference: 5200 Lone Tree Way Gas Station – Air Quality Methodology and Assumptions and Results Technical Memorandum

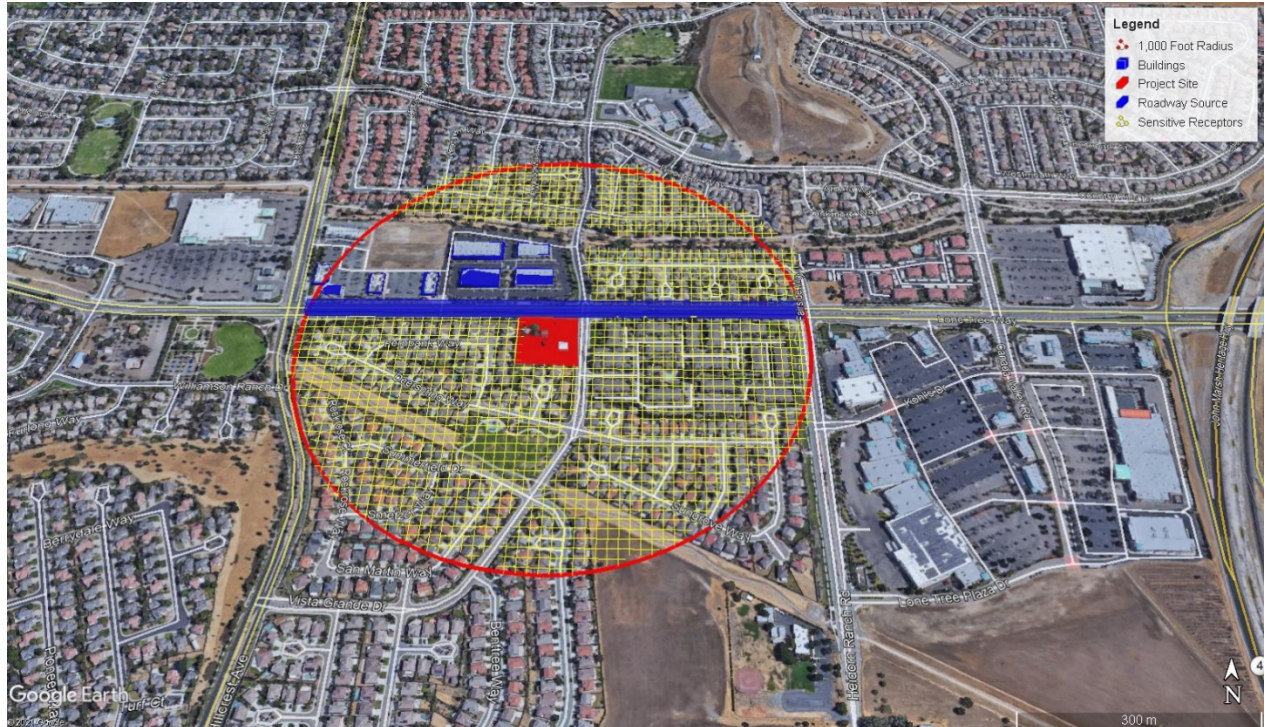


Figure 1 – Construction Dispersion Modeling Parameters

## OPERATIONS

### DPM

The project will primarily generate passenger vehicle trips from visitors traveling to and from the project site; however, the project will also be served with truck deliveries. The main source of DPM from the long-term operations of the proposed project will be from combustion of diesel fuel in diesel-powered engines in on-road delivery trucks and other visiting diesel vehicles. Motor vehicle emissions refer to DPM exhaust emissions from the motor vehicle traffic that would travel to and from the project site, as well as within the project site, each day.

The vehicle fleet mix for trucks would consist of Light-Heavy-Duty truck (LHDT), Medium-Heavy-Duty truck (MHDT), and Heavy-Heavy-Duty truck (HHDT). Emission factors are assigned to the expected vehicle mix as a function of vehicle age, vehicle class, speed, and fuel type. The fleet mix for the proposed project was adjusted based on the EMFAC 2021 fleet mix for Contra Costa County for the 2023 operational year. The operational fleet mix used to assess emissions from the proposed project is included as part of Attachment A.

**Reference:** 5200 Lone Tree Way Gas Station – Air Quality Methodology and Assumptions and Results Technical Memorandum

Each operational emission source to be evaluated requires geometrical and emission release specifications for use in the air dispersion model. The emission source configurations applied in this assessment of operational DPM emissions are shown in Table 10.

**Table 10: Summary of Select Operational Emission Source Configurations**

<b>Emission Source Type</b>	<b>Relevant Assumptions</b>
On-site Truck Traffic	Configuration: line volume sources Release height: 10.2 feet (3.1 meters) Vehicle Speed: 5 mph Vehicle types: heavy-heavy duty (HHDT), medium heavy duty (MHDT), and light-heavy duty (LHDT) delivery trucks Emission factors: EMFAC2021
On-site Truck Idling	Configuration: line volume source Release height: 10.2 feet (3.1 meters) Idle time: 5 minutes per truck per day Vehicle type: HHDT diesel trucks Emission factors: EMFAC 2021 Number of Idling Diesel Vehicles per day: 79 (based on EMFAC2021)
Off-site Traffic	Configuration: line volume source Travel links along Lone Tree Way from the project to outlying areas within 1,000 feet of the project site were identified based and emissions were estimated along each travel link. Vehicle speeds: 25 mph (trucks), 35 mph (passenger vehicles and other vehicles) Vehicle types: fleet mix consistent with the assumptions used to estimate regional criteria pollutant emissions; percentage of diesel vehicles and diesel trucks based on EMFAC 2021 fleet mix for Contra Costa County Emission factors: EMFAC 2021
Facility Operations	24 hours per day/365 days per year (Additional gasoline dispensing activities are detailed in the benzene discussion)
Source: Attachment A.	

Operational emissions for the proposed project were assessed assuming the first year of operations would occur in 2023. Exhaust emissions of DPM (as PM<sub>2.5</sub> exhaust) were estimated using EMFAC2021.

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## **Benzene**

Out of the toxic compounds emitted from the gasoline stations, benzene, ethylbenzene, and naphthalene have cancer toxicity values. However, benzene is the toxic air contaminant (TAC) which drives the risk, accounting for 87 percent of cancer risk from gasoline vapors (SCAQMD 2015). Furthermore, benzene constitutes more than three to four times the weight of gasoline than ethylbenzene and naphthalene, respectively (SCAQMD 2015). Therefore, ethylbenzene and naphthalene were not modeled and were instead considered significant in the case that benzene emissions are significant. Additionally, there are substances emitted from gasoline stations, such as toluene and xylene which possess acute adverse health effects (though not cancer risk). However, it is not until the benzene concentrations are more than two orders of magnitude above 10 in one million that the emissions of toluene and xylene begin to cause adverse health effects (SCAQMD 2007, CAPCOA 1997). Therefore, toluene and xylene emissions were not modeled and were instead considered significant in the case that benzene concentrations are identified at two orders of magnitude above 10 in one million cancer risk.

Emissions sources to be included in the model consist of on-site fuel storage tanks and fuel dispensers. The proposed project contemplates three underground fuel storage tanks and eight fuel dispensers. The specific processes associated with fuel storage tanks and fuel dispensers that emit air toxics include loading, breathing, refueling, and spillage, as described below:

- Loading – Emissions occur when a fuel tanker truck unloads gasoline into the storage tanks. The storage tank vapors, displaced during loading, are emitted through its vent pipe. (A required pressure/vacuum valve installed on the tank vent pipe significantly reduces these emissions.)
- Breathing – Emissions occur through the storage tank vent pipe as a result of temperature and pressure changes in the tank vapor space.
- Refueling – Emissions occur during motor vehicle refueling when gasoline vapors escape through the vehicle/nozzle interface.
- Spillage – Emissions occur from evaporating gasoline that spills during vehicle refueling.

Loading and breathing emissions will exit the underground storage tank vent pipe and are thus treated as a point source. The height and diameter of the vent were assumed to be 3.66 meters and 0.05 meters, respectively. Refueling and spillage emissions were modeled as volume sources with a vertical dimension of 5 meters to correspond to the height of the canopy. For refueling, the release height was assumed to be 1 meter to approximate the height of a vehicle fuel tank inlet, whereas spillage emissions was assumed to be released at ground level since nearly all the gasoline from spillage reaches the ground.



**Reference:** 5200 Lone Tree Way Gas Station – Air Quality Methodology and Assumptions and Results Technical Memorandum

The model was run to obtain the peak 24-hour and annual average concentration in micrograms per cubic meter [ $\mu\text{g}/\text{m}^3$ ] at nearby sensitive receptors.

The chronic and carcinogenic health risk calculations are based on the standardized equations contained in the U.S. EPA Human Health Evaluation Manual (1991) and the Office of Environmental Health Hazard Assessment (OEHHA) Guidance Manual (OEHHA 2015).

### **Cancer Risk**

The model was run to obtain annual average concentration in micrograms per cubic meter [ $\mu\text{g}/\text{m}^3$ ] at future on-site sensitive residential receptors. Consistent with BAAQMD guidance, a health risk computation was performed to determine the risk of developing an excess cancer risk calculated on a 30-year exposure scenario. The chronic and carcinogenic health risk calculations were based on the standardized equations contained in the U.S. EPA Human Health Evaluation Manual (1991) and the OEHHA Guidance Manual.

Based on the OEHHA methodology, the residential inhalation cancer risk from the annual average DPM concentrations were calculated by multiplying the daily inhalation or oral dose, by a cancer potency factor, the age sensitivity factor (ASF), the frequency of time spent at home (for residents only), and the exposure duration divided by averaging time, to yield the excess cancer risk. These factors are discussed in more detail below. Cancer risk must be separately calculated for specified age groups, because of age differences in sensitivity to carcinogens and age differences in intake rates (per kg body weight). Separate risk estimates for these age groups provide a health-protective estimate of cancer risk by accounting for greater susceptibility in early life, including both age-related sensitivity and amount of exposure.

Exposure through inhalation (Dose-air) is a function the breathing rate, the exposure frequency, and the concentration of a substance in the air. For residential exposure, the breathing rates are determined for specific age groups, so Dose-air is calculated for each of these age groups, 3<sup>rd</sup> trimester, 0<2, 2<9, 2<16, 16<30 and 16-70 years.

**Reference:** 5200 Lone Tree Way Gas Station – Air Quality Methodology and Assumptions and Results Technical Memorandum

To estimate cancer risk, the dose was estimated by applying the following formula to each ground-level concentration:

$$\text{Dose-air} = (C_{\text{air}} * \{BR/BW\} * A * EF * 10^{-6})$$

Where:

Dose-air	=	dose through inhalation (mg/kg/day)
C <sub>air</sub>	=	air concentration (µg/m <sup>3</sup> ) from air dispersion model
{BR/BW}	=	daily breathing rate normalized to body weight (L/kg body weight – day) (361 L/kg BW-day for 3 <sup>rd</sup> Trimester, 1,090 L/kg BW-day for 0<2 years, 631 L/kg BW-day for 2<9 years, 572 L/kg BW-day for 2<16 years, 261 L/kg BW-day for 16<30 years, and 233 L/kg BW-day 16<70 years)
A	=	Inhalation absorption factor (unitless [1])
EF	=	exposure frequency (unitless), days/365 days (0.96 [approximately 350 days per year])
10 <sup>-6</sup>	=	conversion factor (micrograms to milligrams, liters to cubic meters)

OEHHA developed ASFs to take into account the increased sensitivity to carcinogens during early-in-life exposure. In the absence of chemical-specific data, OEHHA recommends a default ASF of 10 for the third trimester to age 2 years, an ASF of 3 for ages 2 through 15 years to account for potential increased sensitivity to carcinogens during childhood and an ASF of 1 for ages 16 through 70 years.

Fraction of time at home (FAH) during the day is used to adjust exposure duration and cancer risk from a specific facility's emissions, based on the assumption that exposure to the facility's emissions are not occurring away from home. The following FAH values were used in this assessment:

- From the third trimester to age <2 years: 100 percent (the OEHHA-recommended value is 85 percent of time is spent at home; however, 100 percent was assumed in order to present a conservative analysis);
- From age 2 through <16 years: 100 percent (the OEHHA-recommended value is 72 percent of time is spent at home; however, 100 percent was assumed in order to present a conservative analysis); and
- From age 16 years and greater: 73 percent (the OEHHA-recommended value is 73 percent of time is spent at home).

**Reference:** 5200 Lone Tree Way Gas Station – Air Quality Methodology and Assumptions and Results Technical Memorandum

To estimate the cancer risk, the dose was multiplied by the cancer potency factor, the ASF, the exposure duration divided by averaging time, and the frequency of time spent at home (for residents only):

$$\text{Risk}_{\text{inh-res}} = (\text{Dose}_{\text{air}} * \text{CPF} * \text{ASF} * \text{ED}/\text{AT} * \text{FAH})$$

Where:

$\text{Risk}_{\text{inh-res}}$	=	residential inhalation cancer risk (potential chances per million)
$\text{Dose}_{\text{air}}$	=	daily dose through inhalation (mg/kg-day)
CPF	=	inhalation cancer potency factor (mg/kg-day <sup>-1</sup> )
ASF	=	age sensitivity factor for a specified age group (unitless)
ED	=	exposure duration (in years) for a specified age group
AT	=	averaging time of lifetime cancer risk (years)
FAH	=	fraction of time spent at home (unitless)

### Chronic Non-Cancer Hazard

Non-cancer chronic impacts were calculated by dividing the annual average concentration by the Reference Exposure Level (REL) for that substance. The REL is defined as the concentration at which no adverse non-cancer health effects are anticipated. The following equation was used to determine the non-cancer risk:

$$\text{Hazard Quotient} = \text{Ci}/\text{RELi}$$

Where:

$\text{Ci}$	=	Concentration in the air of substance i (annual average concentration in $\mu\text{g}/\text{m}^3$ )
$\text{RELi}$	=	Chronic noncancer Reference Exposure Level for substance i ( $\mu\text{g}/\text{m}^3$ )

Reference: 5200 Lone Tree Way Gas Station – Air Quality Methodology and Assumptions and Results Technical Memorandum

## RESULTS

### CRITERIA AIR POLLUTANTS

#### Construction

**Table 11: Construction Annual and Daily Average Emissions (Unmitigated Average Daily Rate)**

Parameter	Air Pollutants			
	ROG	NO <sub>x</sub>	PM <sub>10</sub> (Exhaust)	PM <sub>2.5</sub> (Exhaust)
2022 Construction Year (tons/year)	0.08	0.56	0.03	0.03
2023 Construction Year (tons/year)	0.05	0.05	0.00	0.00
<i>Total Emissions (tons/year)</i>	<i>0.13</i>	<i>0.62</i>	<i>0.03</i>	<i>0.03</i>
Total Emissions (pounds/year)	258.60	1,232.20	56.92	55.10
<b>Average Daily Emissions (pounds/day)<sup>1</sup></b>	<b>1.48</b>	<b>7.04</b>	<b>0.33</b>	<b>0.31</b>
<b>Significance Threshold (pounds/day)</b>	<b>54</b>	<b>54</b>	<b>82</b>	<b>54</b>
<b>Exceeds Significance Threshold?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

Notes:

<sup>1</sup> Calculated by dividing the total number of pounds by the total 175 working days of construction for the entire construction period.

Calculations use unrounded numbers.

lbs = pounds; NO<sub>x</sub> = oxides of nitrogen; PM<sub>10</sub> = particulate matter 10 microns in diameter; PM<sub>2.5</sub> = particulate matter 2.5 microns in diameter; ROG = reactive organic gases

Source: Criteria Pollutants and Greenhouse Gas Emissions Estimation Summary (Attachment B)

Reference: 5200 Lone Tree Way Gas Station – Air Quality Methodology and Assumptions and Results Technical Memorandum

## Operations

**Table 12: Operational Annual Emissions**

Emissions Source	Tons per Year			
	ROG	NO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Area	0.03	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00
Mobile (Motor Vehicles)	0.99	0.71	0.72	0.20
Fuel Dispensing	2.90	-	-	-
<b>Total Project Annual Emissions</b>	<b>3.92</b>	<b>0.72</b>	<b>0.72</b>	<b>0.20</b>
<b>Thresholds of Significance</b>	<b>10</b>	<b>10</b>	<b>15</b>	<b>10</b>
<b>Exceeds Significance Threshold?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

Notes:

NO<sub>x</sub> = oxides of nitrogen; PM<sub>2.5</sub> = particulate matter 2.5 microns or less in diameter; PM<sub>10</sub> = particulate matter 10 microns or less in diameter; ROG = reactive organic gases.

Assume approximately 8 fuel pumps, conservatively assuming a throughput of 1,000,000 gallons/pump/year.

Source: Criteria Pollutants and Greenhouse Gas Emissions Estimation Summary (Appendix A)

**Table 13: Operational Average Daily Annual Emissions**

Emissions Source	Tons per Year			
	ROG	NO <sub>x</sub>	PM <sub>10</sub>	PM <sub>2.5</sub>
Total Project Annual Emissions <sup>1</sup> (tons/year)	<b>3.92</b>	<b>0.72</b>	<b>0.72</b>	<b>0.20</b>
Total Project Annual Emissions <sup>2</sup> (lbs/year)	7,816.2	1,431.46	1,441.48	394.48
<b>Average Daily Emissions<sup>3</sup> (lbs/day)</b>	<b>21.41</b>	<b>3.92</b>	<b>3.95</b>	<b>1.08</b>
<b>BAAQMD Average Daily Emission Thresholds (lbs/day)</b>	<b>54</b>	<b>54</b>	<b>82</b>	<b>54</b>
<b>Exceeds Significance Threshold?</b>	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>

Notes:

<sup>1</sup> Tons per year are shown in Table 12.

<sup>2</sup> Pounds per year were calculated using the unrounded annual project operational emissions.

<sup>3</sup> The average daily operational emissions were estimated based on the total annual emissions divided by 365 days.

lbs = pounds; NO<sub>x</sub> = oxides of nitrogen; PM<sub>2.5</sub> = particulate matter 2.5 microns or less in diameter; PM<sub>10</sub> = particulate matter 10 microns or less in diameter; ROG = reactive organic gases

Source: Criteria Pollutants and Greenhouse Gas Emissions Estimation Summary (Attachment B)

Reference: 5200 Lone Tree Way Gas Station – Air Quality Methodology and Assumptions and Results Technical Memorandum

## GREENHOUSE GAS EMISSIONS

### Construction

**Table 14: Construction Greenhouse Gas Emissions**

Construction (2022-2023)	MTCO <sub>2e</sub>
Project Construction (2022)	126
Project Construction (2022)	12
<b>Total Construction MTCO<sub>2e</sub></b>	<b>138</b>
<b>Emissions Amortized Over 30 Years<sup>1</sup></b>	<b>5</b>

Notes:

MTCO<sub>2e</sub> = metric tons of carbon dioxide equivalent

<sup>1</sup> Construction GHG emissions are amortized over the 30-year lifetime of the project.

Source: Criteria Pollutants and Greenhouse Gas Emissions Estimation Summary (Appendix A)

### Operations

**Table 15: Operational Greenhouse Gas Emissions**

Source Category	2023 MTCO <sub>2e</sub>	2030 MTCO <sub>2e</sub>
Area	0	0
Energy Consumption	6	6
Mobile	718	611
Solid Waste Generation	7	7
Water Usage	2	2
Amortized Construction Emissions <sup>1</sup>	5	5
<i>Total</i>	<i>738</i>	<i>631</i>
<b>Bright-Line Threshold 2023<sup>2</sup></b>	<b>968</b>	-
<b>Bright-Line Threshold 2030<sup>2</sup></b>	-	<b>660</b>
<b>Significant Impact?</b>	<b>No</b>	<b>No</b>

Notes:

<sup>1</sup> Construction GHG emissions are amortized over the 30-year lifetime of the project.

<sup>2</sup> Value was calculated using the standard equation for linear interpolation between the data points for 2020 and 2030. An appropriate value was determined for the year 2023 based on interpolation of known data.

MTCO<sub>2e</sub> = metric tons of carbon dioxide equivalent; BAAQMD = Bay Area Air Quality Management District

Source: CalEEMod (Appendix A)

Reference: 5200 Lone Tree Way Gas Station – Air Quality Methodology and Assumptions and Results Technical Memorandum

**HEALTH RISK ASSESSMENT****Proposed Project, 30-Year Cancer Risk Assessment****Table 16: Unmitigated Health Risk**

Health Impact Metric				Carcinogenic Inhalation Health Risk in One Million	Ambient PM <sub>2.5</sub> Increase	Chronic Inhalation Hazard Index
Exposure Age	Phase of Project	Exposure Duration	Source			
Third Trimester	Construction	0.25	DPM	7.32	0.633	0.126
Infant	Construction	0.40	DPM	35.3	0.633	0.126
	Operation	1.60	DPM	0.80	0.004	0.001
Benzene			1.57	0.077	0.003	
Child	Operation	14	DPM	0.93	0.004	0.001
			Benzene	1.83	0.077	0.003
Adult	Operation	14	DPM	0.49	0.004	0.001
			Benzene	0.97	0.077	0.003
<b>Threshold</b>				<b>10</b>	<b>0.3</b>	<b>1</b>
<b>Exceeds Threshold?</b>				<b>Yes</b>	<b>Yes</b>	<b>No</b>
Notes: Chronic non-cancer hazard index was estimated by dividing the annual DPM concentration (as PM <sub>2.5</sub> exhaust) and benzene concentration by the REL of 5 µg/m <sup>3</sup> and 27 µg/m <sup>3</sup> , respectively. Source: Appendix B.						

**Table 17: Mitigated Health Risk**

Health Impact Metric				Carcinogenic Inhalation Health Risk in One Million	Ambient PM <sub>2.5</sub> Increase	Chronic Inhalation Hazard Index
Exposure Age	Phase of Project	Exposure Duration	Source			
Third Trimester	Construction	0.25	DPM	0.40	0.034	0.007
Infant	Construction	0.40	DPM	1.91	0.034	0.007
	Operation	1.60	DPM	0.80	0.004	0.001
Benzene			1.57	0.077	0.003	
Child	Operation	14	DPM	0.93	0.004	0.001
			Benzene	1.83	0.077	0.003
Adult	Operation	14	DPM	0.49	0.004	0.001
			Benzene	0.97	0.077	0.003
<b>Threshold</b>				<b>10</b>	<b>0.3</b>	<b>1</b>
<b>Exceeds Threshold?</b>				<b>No</b>	<b>No</b>	<b>No</b>
Notes: Chronic non-cancer hazard index was estimated by dividing the annual DPM concentration (as PM <sub>2.5</sub> exhaust) and benzene concentration by the REL of 5 µg/m <sup>3</sup> and 27 µg/m <sup>3</sup> , respectively. See MM AIR-1. Source: Appendix B.						

Reference: 5200 Lone Tree Way Gas Station – Air Quality Methodology and Assumptions and Results Technical Memorandum

## Cumulative Health Risk Assessment

The BAAQMD recommends assessing the potential cumulative impacts from sources of TACs within 1,000 feet of a project. A cumulative HRA was performed that examined the cumulative impacts of the Project's construction emissions and sources of TAC emissions within 1,000 feet of the Project. For a project-level analysis, BAAQMD provides several tools for use in screening potential sources of TACs. The BAAQMD-provided tools that were used to assess the potential cumulative impacts from TACs during Project construction at the MEI are described below.

- **Stationary Source Risk and Hazard Screening Tools.** The BAAQMD prepared a Geographic Information System (GIS) tool with the location of permitted sources. For each emissions source, the BAAQMD provides conservative estimates of cancer risk and PM<sub>2.5</sub> concentrations. Based on information from the GIS tool, there are three BAAQMD-permitted stationary sources within 1,000 feet of the Project site.
- **Health Risks for Local Roadways.** The BAAQMD pre-calculated concentrations and the associated potential cancer risks and PM<sub>2.5</sub> concentration increases for each county within their jurisdiction for roadways that carry at least 30,000 average daily trips. For certain areas, the BAAQMD also included local roadways that meet BAAQMD's "major roadway" criteria of 10,000 vehicles or 1,000 trucks per day. The latest available screening tool is in the form of a GIS raster file.
- **Freeway Screening Analysis Tool.** The BAAQMD prepared a GIS raster file that contains pre-estimated cancer risk and PM<sub>2.5</sub> concentration increases for highways within the Bay Area.
- **Rail Screening Tool.** The BAAQMD prepared a GIS raster file that contains estimated cancer risks and PM<sub>2.5</sub> concentrations from railroad operations at any point within the Air Basin.

Review of the tools provided by the BAAQMD demonstrates that there are no significant roadway or freeway sources of TACs near the project site. There are two stationary sources located within 1,000 feet of the project site (Verizon Wireless [Highway 4 Bypass] at 4701 Vista Grande Drive and Target Store T-1819 at 5769 Lone Tree Way). Both stationary sources were identified by the BAAQMD's Permitted Stationary Sources Risk and Hazards Tool as have no health risks associated with the site and PM<sub>2.5</sub> concentrations of 0 µg/m<sup>3</sup>. As a result, there are no additional sources of TACs that may impact the health of the MEIR in conjunction with the proposed project.



**Reference:** 5200 Lone Tree Way Gas Station – Air Quality Methodology and Assumptions and Results Technical Memorandum

## **MITIGATION MEASURES**

The following mitigation measures are required for the Project to be consistent with the Clean Air Plan and reduce health impacts to a less than significant level.

### **MM AIR-1: Implement Construction Best Management Practices**

The applicant shall require all construction contractors to implement the basic construction mitigation measures recommended by the BAAQMD to reduce fugitive dust emissions. Emission reduction measures will include, at a minimum, the following measures. Additional measures may be identified by the BAAQMD or contractor as appropriate:

- All exposed surfaces (e.g., parking areas, staging areas, soil piles, graded areas, and unpaved access roads) will be watered two times per day
- All haul trucks transporting soil, sand, or other loose material off-site will be covered
- All visible mud or dirt track-out onto adjacent public roads will be removed using wet power vacuum street sweepers at least once per day. The use of dry power sweeping is prohibited
- All vehicle speeds on unpaved roads shall be limited to 15 miles per hour
- All roadways, driveways, and sidewalks to be paved will be completed as soon as possible. Building pads will be laid as soon as possible after grading unless seeding or soil binders are used
- Idling times shall be minimized either by shutting equipment off when not in use or by reducing the maximum idling time to 5 minutes (as required by the California Airborne Toxics Control Measure Title 13, Section 2485 of California Code of Regulations; clear signage shall be provided for construction workers at all access points
- All construction equipment shall be maintained and properly tuned in accordance with manufacturer's specifications
- All equipment shall be checked by a certified visible emissions evaluator or checked by a certified mechanic and determined to be running in proper condition prior to operation
- Post a publicly visible sign with the telephone number and person to contact at the City regarding dust complaints. This person will respond and take corrective action within 48

**Reference:** 5200 Lone Tree Way Gas Station – Air Quality Methodology and Assumptions and Results Technical Memorandum

hours. The Bay Area Air Quality Management District's phone number will also be visible to ensure compliance with applicable regulations.

### **MM AIR-2: Cleaner Off-road Construction Equipment**

The following mitigation measure shall be implemented during all phases of construction to reduce potential exposure of diesel particulate matter (DPM) and particulate matter less than 2.5 micrometers in aerodynamic diameter (PM<sub>2.5</sub>) emissions to sensitive receptors located near the Project site. Prior to the issuance of any demolition, grading and/or building permits (whichever occurs earliest), the project applicant shall prepare and submit a construction - operations plan that includes specifications of the equipment to be used during construction to the Community Development Director or the Director's designee. The plan shall be accompanied by a letter signed by an air quality specialist, verifying that the equipment included in the plan meets the standards set forth below:

- For all construction equipment larger than 25 horsepower used at the site, equipment shall at a minimum, meet United States Environmental Protection Agency (US EPA) or California Air Resources Board (CARB) particulate matter emissions standards for Tier 4 Final engines.
- The construction contractor shall maintain records documenting its efforts to comply with this requirement, including equipment lists. Off-road equipment descriptions and information shall include, but are not limited to, equipment type, equipment manufacturer, equipment identification number, engine model year, engine certification (Tier rating), horsepower, and engine serial number. The plan shall be submitted to the Community Development Director or the Director's designee for review and approval prior to the issuance of any demolition, grading and/or building permits (whichever occurs earliest).

Reference: 5200 Lone Tree Way Gas Station – Air Quality Methodology and Assumptions and Results Technical Memorandum

## REFERENCES

Bay Area Air Quality Management District. 2017. CEQA Guidelines. Accessed November 22, 2021. [https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa\\_guidelines\\_may2017-pdf.pdf?la=en](https://www.baaqmd.gov/~/media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en).

California Air Pollution Control Officers Association. 1997. *Gasoline Service Station Industry Risk Assessment Guidelines*. Accessed November 22, 2021. <https://ww2.arb.ca.gov/sites/default/files/classic/ab2588/rrap-iwra/gasiwra.pdf>.

Office of Environmental Health Hazard Assessment. 2015. Guidance Manual for Preparation of Health Risk Assessments. Accessed November 22, 2021. <https://oehha.ca.gov/media/downloads/crrr/2015guidancemanual.pdf>.

South Coast Air Quality Management District. 2007. *Emission Inventory and Risk Assessment Guidelines for Gasoline Dispensing Stations*. Accessed November 22, 2021. [http://www.aqmd.gov/docs/default-source/planning/risk-assessment/gas\\_station\\_hra.pdf?sfvrsn=0](http://www.aqmd.gov/docs/default-source/planning/risk-assessment/gas_station_hra.pdf?sfvrsn=0).

\_\_\_\_\_. 2015. MATES IV. Accessed November 22, 2021. <http://www.aqmd.gov/docs/default-source/air-quality/air-toxic-studies/mates-iv/mates-iv-final-draft-report-4-1-15.pdf?sfvrsn=7>.

US EPA. 1991. Human Health Evaluation Manual, Supplemental Guidance: Standard Default Exposure Factors. Accessed November 22, 2021. <https://nepis.epa.gov/Exe/ZyNET.exe/9100UGU2.TXT?ZyActionD=ZyDocument&Client=EP A&Index=1991+Thru+1994&Docs=&Query=&Time=&EndTime=&SearchMethod=1&TocRestrict=n&Toc=&TocEntry=&QField=&QFieldYear=&QFieldMonth=&QFieldDay=&IntQFieldOp=0&ExtQFieldOp=0&XmlQuery=&File=D%3A%5Czyfiles%5CIndex%20Data%5C91thru94%5CTxt%5C00000026%5C9100UGU2.txt&User=ANONYMOUS&Password=anonymous&SortMethod=h%7C-&MaximumDocuments=1&FuzzyDegree=0&ImageQuality=r75g8/r75g8/x150y150g16/i425&Display=hpfr&DefSeekPage=x&SearchBack=ZyActionL&Back=ZyActionS&BackDesc=Results%20page&MaximumPages=1&ZyEntry=1&SeekPage=x&ZyPURL>.

\_\_\_\_\_. 2015. Gasoline Dispensing Calculator. Accessed November 22, 2021. <https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fwww.epa.gov%2Fsites%2Fdefault%2Ffiles%2F2016-06%2Fgasolinedispensingcalculator032315.xlsx&wdOrigin=BROWSELINK>

# **ATTACHMENT A: EMFAC2021**

**5200 Lone Tree Facility**



# **ATTACHMENT B: CALEEMOD RESULTS**

**5200 Lone Tree Facility**

5200 Lone Tree Way Gas Station - Contra Costa County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5200 Lone Tree Way Gas Station**

**Contra Costa County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	41.40	1000sqft	0.95	41,400.00	0
Other Non-Asphalt Surfaces	0.78	Acre	0.78	33,976.80	0
Parking Lot	19.00	Space	0.17	7,600.00	0
Automobile Care Center	1.13	1000sqft	0.03	1,130.00	0
Convenience Market with Gas Pumps	3.20	1000sqft	0.07	3,200.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	4			<b>Operational Year</b>	2023
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	203.98	<b>CH4 Intensity (lb/MWhr)</b>	0.033	<b>N2O Intensity (lb/MWhr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Project site include approximately 53,342 SF of impervious surfaces.

Construction Phase - Construction takes place over 8 months from June 2022 to January 2023.

Off-road Equipment - construction equipment updated to be consistent with similar projects.

Off-road Equipment - Construction equipment list updated to be consistent with similar projects.

Off-road Equipment - construction equipment updated to be consistent with similar projects.

Off-road Equipment - construction equipment updated to be consistent with similar projects.

Off-road Equipment - construction equipment updated to be consistent with similar projects.

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Trips and VMT - Construction is anticipated to use 18 workers on average with a peak of 30 workers, in order to capture this peak assumed all of the building construction period would use 30 workers.

Demolition -

Grading - Project Description

Vehicle Trips - Weekday trip rates, diverted, and passby trips updated to reflect Trip Generation

Water And Wastewater - The proposed project will require 2,461 gallons of water per day, 963,965 gallons per year. The total water use was applied for indoor water use and outdoor water use was reduced to zero.

Construction Off-road Equipment Mitigation - Tier 4 for equipment > 50 hp

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstructionPhase	NumDays	10.00	9.00
tblConstructionPhase	NumDays	200.00	135.00
tblConstructionPhase	NumDays	20.00	15.00
tblGrading	AcresOfGrading	3.00	4.00
tblGrading	AcresOfGrading	1.50	1.88



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblGrading	MaterialExported	0.00	640.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	6.00	0.20
tblOffRoadEquipment	UsageHours	8.00	7.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	6.00	3.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblTripsAndVMT	HaulingTripLength	20.00	22.30
tblTripsAndVMT	HaulingTripLength	20.00	22.30
tblTripsAndVMT	VendorTripNumber	14.00	9.00
tblTripsAndVMT	WorkerTripNumber	15.00	36.00
tblTripsAndVMT	WorkerTripNumber	8.00	36.00
tblTripsAndVMT	WorkerTripNumber	10.00	36.00
tblTripsAndVMT	WorkerTripNumber	36.00	60.00
tblTripsAndVMT	WorkerTripNumber	20.00	36.00
tblTripsAndVMT	WorkerTripNumber	7.00	36.00
tblVehicleTrips	DV_TP	21.00	25.70
tblVehicleTrips	PB_TP	65.00	59.10
tblVehicleTrips	PR_TP	14.00	15.20

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

tblVehicleTrips	WD_TR	23.72	10.22
tblVehicleTrips	WD_TR	624.20	1,152.50
tblWater	IndoorWaterUseRate	106,311.65	963,965.00
tblWater	IndoorWaterUseRate	237,032.07	0.00
tblWater	OutdoorWaterUseRate	65,158.75	0.00
tblWater	OutdoorWaterUseRate	145,277.72	0.00

**2.0 Emissions Summary**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0801	0.5631	0.7142	1.4300e-003	0.0604	0.0260	0.0864	0.0190	0.0252	0.0442	0.0000	124.5006	124.5006	0.0136	3.2800e-003	125.8175
2023	0.0492	0.0530	0.0788	1.4000e-004	3.5200e-003	2.4600e-003	5.9700e-003	9.4000e-004	2.3500e-003	3.2800e-003	0.0000	11.9770	11.9770	2.0600e-003	1.1000e-004	12.0626
<b>Maximum</b>	<b>0.0801</b>	<b>0.5631</b>	<b>0.7142</b>	<b>1.4300e-003</b>	<b>0.0604</b>	<b>0.0260</b>	<b>0.0864</b>	<b>0.0190</b>	<b>0.0252</b>	<b>0.0442</b>	<b>0.0000</b>	<b>124.5006</b>	<b>124.5006</b>	<b>0.0136</b>	<b>3.2800e-003</b>	<b>125.8175</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.0801	0.5631	0.7142	1.4300e-003	0.0604	0.0260	0.0864	0.0190	0.0252	0.0442	0.0000	124.5005	124.5005	0.0136	3.2800e-003	125.8174
2023	0.0492	0.0530	0.0788	1.4000e-004	3.5200e-003	2.4600e-003	5.9700e-003	9.4000e-004	2.3500e-003	3.2800e-003	0.0000	11.9770	11.9770	2.0600e-003	1.1000e-004	12.0626
<b>Maximum</b>	<b>0.0801</b>	<b>0.5631</b>	<b>0.7142</b>	<b>1.4300e-003</b>	<b>0.0604</b>	<b>0.0260</b>	<b>0.0864</b>	<b>0.0190</b>	<b>0.0252</b>	<b>0.0442</b>	<b>0.0000</b>	<b>124.5005</b>	<b>124.5005</b>	<b>0.0136</b>	<b>3.2800e-003</b>	<b>125.8174</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2022	8-31-2022	0.2943	0.2943
2	9-1-2022	11-30-2022	0.2599	0.2599
3	12-1-2022	2-28-2023	0.1921	0.1921
		Highest	0.2943	0.2943

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0263	1.0000e-005	6.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1700e-003	1.1700e-003	0.0000	0.0000	1.2500e-003
Energy	2.0000e-004	1.8200e-003	1.5300e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	6.1475	6.1475	7.1000e-004	1.2000e-004	6.2005
Mobile	0.9916	0.7139	5.9482	7.5000e-003	0.7136	6.9800e-003	0.7206	0.1906	6.4900e-003	0.1971	0.0000	698.5898	698.5898	0.0977	0.0559	717.6888
Waste						0.0000	0.0000		0.0000	0.0000	2.8297	0.0000	2.8297	0.1672	0.0000	7.0105
Water						0.0000	0.0000		0.0000	0.0000	0.3058	0.4826	0.7884	0.0315	7.5000e-004	1.7995
<b>Total</b>	<b>1.0181</b>	<b>0.7157</b>	<b>5.9503</b>	<b>7.5100e-003</b>	<b>0.7136</b>	<b>7.1200e-003</b>	<b>0.7207</b>	<b>0.1906</b>	<b>6.6300e-003</b>	<b>0.1972</b>	<b>3.1355</b>	<b>705.2211</b>	<b>708.3566</b>	<b>0.2972</b>	<b>0.0568</b>	<b>732.7004</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0263	1.0000e-005	6.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1700e-003	1.1700e-003	0.0000	0.0000	1.2500e-003
Energy	2.0000e-004	1.8200e-003	1.5300e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	6.1475	6.1475	7.1000e-004	1.2000e-004	6.2005
Mobile	0.9916	0.7139	5.9482	7.5000e-003	0.7136	6.9800e-003	0.7206	0.1906	6.4900e-003	0.1971	0.0000	698.5898	698.5898	0.0977	0.0559	717.6888
Waste						0.0000	0.0000		0.0000	0.0000	2.8297	0.0000	2.8297	0.1672	0.0000	7.0105
Water						0.0000	0.0000		0.0000	0.0000	0.3058	0.4826	0.7884	0.0315	7.5000e-004	1.7995
<b>Total</b>	<b>1.0181</b>	<b>0.7157</b>	<b>5.9503</b>	<b>7.5100e-003</b>	<b>0.7136</b>	<b>7.1200e-003</b>	<b>0.7207</b>	<b>0.1906</b>	<b>6.6300e-003</b>	<b>0.1972</b>	<b>3.1355</b>	<b>705.2211</b>	<b>708.3566</b>	<b>0.2972</b>	<b>0.0568</b>	<b>732.7004</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2022	6/21/2022	5	15	
2	Site Preparation	Site Preparation	6/22/2022	6/23/2022	5	2	
3	Grading	Grading	6/24/2022	6/29/2022	5	4	

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

4	Building Construction	Building Construction	6/30/2022	1/4/2023	5	135
5	Paving	Paving	1/5/2023	1/18/2023	5	10
6	Architectural Coating	Architectural Coating	1/19/2023	1/31/2023	5	9

**Acres of Grading (Site Preparation Phase): 1.88**

**Acres of Grading (Grading Phase): 4**

**Acres of Paving: 1.9**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 6,495; Non-Residential Outdoor: 2,165; Striped Parking Area: 4,979 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Demolition	Excavators	1	4.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Skid Steer Loaders	1	6.00	65	0.37
Demolition	Tractors/Loaders/Backhoes	3	6.00	97	0.37
Site Preparation	Graders	1	6.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	6.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Aerial Lifts	1	0.20	63	0.31
Building Construction	Cranes	1	0.20	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	7.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	3.00	97	0.37
Building Construction	Welders	3	4.00	46	0.45

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	6.00	132	0.36
Paving	Rollers	1	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Paving	Welders	3	4.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	36.00	0.00	39.00	10.80	7.30	22.30	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	36.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	36.00	0.00	80.00	10.80	7.30	22.30	LD_Mix	HDT_Mix	HHDT
Building Construction	8	60.00	9.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	36.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	36.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.2100e-003	0.0000	4.2100e-003	6.4000e-004	0.0000	6.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.9400e-003	0.0559	0.0784	1.2000e-004		2.8800e-003	2.8800e-003		2.7200e-003	2.7200e-003	0.0000	10.3595	10.3595	2.5400e-003	0.0000	10.4229
<b>Total</b>	<b>5.9400e-003</b>	<b>0.0559</b>	<b>0.0784</b>	<b>1.2000e-004</b>	<b>4.2100e-003</b>	<b>2.8800e-003</b>	<b>7.0900e-003</b>	<b>6.4000e-004</b>	<b>2.7200e-003</b>	<b>3.3600e-003</b>	<b>0.0000</b>	<b>10.3595</b>	<b>10.3595</b>	<b>2.5400e-003</b>	<b>0.0000</b>	<b>10.4229</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-004	3.6800e-003	7.6000e-004	1.0000e-005	3.7000e-004	3.0000e-005	4.0000e-004	1.0000e-004	3.0000e-005	1.3000e-004	0.0000	1.3559	1.3559	4.0000e-005	2.1000e-004	1.4211
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.6000e-004	5.5000e-004	6.5500e-003	2.0000e-005	2.1400e-003	1.0000e-005	2.1500e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.7308	1.7308	5.0000e-005	5.0000e-005	1.7473
<b>Total</b>	<b>8.6000e-004</b>	<b>4.2300e-003</b>	<b>7.3100e-003</b>	<b>3.0000e-005</b>	<b>2.5100e-003</b>	<b>4.0000e-005</b>	<b>2.5500e-003</b>	<b>6.7000e-004</b>	<b>4.0000e-005</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>3.0867</b>	<b>3.0867</b>	<b>9.0000e-005</b>	<b>2.6000e-004</b>	<b>3.1683</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Demolition - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.2100e-003	0.0000	4.2100e-003	6.4000e-004	0.0000	6.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.9400e-003	0.0559	0.0784	1.2000e-004		2.8800e-003	2.8800e-003		2.7200e-003	2.7200e-003	0.0000	10.3595	10.3595	2.5400e-003	0.0000	10.4229
<b>Total</b>	<b>5.9400e-003</b>	<b>0.0559</b>	<b>0.0784</b>	<b>1.2000e-004</b>	<b>4.2100e-003</b>	<b>2.8800e-003</b>	<b>7.0900e-003</b>	<b>6.4000e-004</b>	<b>2.7200e-003</b>	<b>3.3600e-003</b>	<b>0.0000</b>	<b>10.3595</b>	<b>10.3595</b>	<b>2.5400e-003</b>	<b>0.0000</b>	<b>10.4229</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0000e-004	3.6800e-003	7.6000e-004	1.0000e-005	3.7000e-004	3.0000e-005	4.0000e-004	1.0000e-004	3.0000e-005	1.3000e-004	0.0000	1.3559	1.3559	4.0000e-005	2.1000e-004	1.4211
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.6000e-004	5.5000e-004	6.5500e-003	2.0000e-005	2.1400e-003	1.0000e-005	2.1500e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.7308	1.7308	5.0000e-005	5.0000e-005	1.7473
<b>Total</b>	<b>8.6000e-004</b>	<b>4.2300e-003</b>	<b>7.3100e-003</b>	<b>3.0000e-005</b>	<b>2.5100e-003</b>	<b>4.0000e-005</b>	<b>2.5500e-003</b>	<b>6.7000e-004</b>	<b>4.0000e-005</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>3.0867</b>	<b>3.0867</b>	<b>9.0000e-005</b>	<b>2.6000e-004</b>	<b>3.1683</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.5100e-003	0.0000	5.5100e-003	2.5900e-003	0.0000	2.5900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0600e-003	0.0118	5.6600e-003	1.0000e-005		5.1000e-004	5.1000e-004		4.7000e-004	4.7000e-004	0.0000	1.2040	1.2040	3.9000e-004	0.0000	1.2137
<b>Total</b>	<b>1.0600e-003</b>	<b>0.0118</b>	<b>5.6600e-003</b>	<b>1.0000e-005</b>	<b>5.5100e-003</b>	<b>5.1000e-004</b>	<b>6.0200e-003</b>	<b>2.5900e-003</b>	<b>4.7000e-004</b>	<b>3.0600e-003</b>	<b>0.0000</b>	<b>1.2040</b>	<b>1.2040</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.2137</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	7.0000e-005	8.7000e-004	0.0000	2.9000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2308	0.2308	1.0000e-005	1.0000e-005	0.2330
<b>Total</b>	<b>1.0000e-004</b>	<b>7.0000e-005</b>	<b>8.7000e-004</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.2308</b>	<b>0.2308</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2330</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.3 Site Preparation - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.5100e-003	0.0000	5.5100e-003	2.5900e-003	0.0000	2.5900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0600e-003	0.0118	5.6600e-003	1.0000e-005		5.1000e-004	5.1000e-004		4.7000e-004	4.7000e-004	0.0000	1.2040	1.2040	3.9000e-004	0.0000	1.2137
<b>Total</b>	<b>1.0600e-003</b>	<b>0.0118</b>	<b>5.6600e-003</b>	<b>1.0000e-005</b>	<b>5.5100e-003</b>	<b>5.1000e-004</b>	<b>6.0200e-003</b>	<b>2.5900e-003</b>	<b>4.7000e-004</b>	<b>3.0600e-003</b>	<b>0.0000</b>	<b>1.2040</b>	<b>1.2040</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.2137</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	7.0000e-005	8.7000e-004	0.0000	2.9000e-004	0.0000	2.9000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2308	0.2308	1.0000e-005	1.0000e-005	0.2330
<b>Total</b>	<b>1.0000e-004</b>	<b>7.0000e-005</b>	<b>8.7000e-004</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.2308</b>	<b>0.2308</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.2330</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0112	0.0000	0.0112	5.2000e-003	0.0000	5.2000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3700e-003	0.0261	0.0147	3.0000e-005		1.1500e-003	1.1500e-003		1.0600e-003	1.0600e-003	0.0000	2.8179	2.8179	9.1000e-004	0.0000	2.8407
<b>Total</b>	<b>2.3700e-003</b>	<b>0.0261</b>	<b>0.0147</b>	<b>3.0000e-005</b>	<b>0.0112</b>	<b>1.1500e-003</b>	<b>0.0123</b>	<b>5.2000e-003</b>	<b>1.0600e-003</b>	<b>6.2600e-003</b>	<b>0.0000</b>	<b>2.8179</b>	<b>2.8179</b>	<b>9.1000e-004</b>	<b>0.0000</b>	<b>2.8407</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-004	7.5400e-003	1.5600e-003	3.0000e-005	7.6000e-004	7.0000e-005	8.3000e-004	2.1000e-004	7.0000e-005	2.7000e-004	0.0000	2.7814	2.7814	9.0000e-005	4.4000e-004	2.9150
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.5000e-004	1.7500e-003	1.0000e-005	5.7000e-004	0.0000	5.7000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4615	0.4615	1.0000e-005	1.0000e-005	0.4659
<b>Total</b>	<b>4.0000e-004</b>	<b>7.6900e-003</b>	<b>3.3100e-003</b>	<b>4.0000e-005</b>	<b>1.3300e-003</b>	<b>7.0000e-005</b>	<b>1.4000e-003</b>	<b>3.6000e-004</b>	<b>7.0000e-005</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>3.2429</b>	<b>3.2429</b>	<b>1.0000e-004</b>	<b>4.5000e-004</b>	<b>3.3809</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.4 Grading - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0112	0.0000	0.0112	5.2000e-003	0.0000	5.2000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3700e-003	0.0261	0.0147	3.0000e-005		1.1500e-003	1.1500e-003		1.0600e-003	1.0600e-003	0.0000	2.8179	2.8179	9.1000e-004	0.0000	2.8407
<b>Total</b>	<b>2.3700e-003</b>	<b>0.0261</b>	<b>0.0147</b>	<b>3.0000e-005</b>	<b>0.0112</b>	<b>1.1500e-003</b>	<b>0.0123</b>	<b>5.2000e-003</b>	<b>1.0600e-003</b>	<b>6.2600e-003</b>	<b>0.0000</b>	<b>2.8179</b>	<b>2.8179</b>	<b>9.1000e-004</b>	<b>0.0000</b>	<b>2.8407</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.0000e-004	7.5400e-003	1.5600e-003	3.0000e-005	7.6000e-004	7.0000e-005	8.3000e-004	2.1000e-004	7.0000e-005	2.7000e-004	0.0000	2.7814	2.7814	9.0000e-005	4.4000e-004	2.9150
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-004	1.5000e-004	1.7500e-003	1.0000e-005	5.7000e-004	0.0000	5.7000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4615	0.4615	1.0000e-005	1.0000e-005	0.4659
<b>Total</b>	<b>4.0000e-004</b>	<b>7.6900e-003</b>	<b>3.3100e-003</b>	<b>4.0000e-005</b>	<b>1.3300e-003</b>	<b>7.0000e-005</b>	<b>1.4000e-003</b>	<b>3.6000e-004</b>	<b>7.0000e-005</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>3.2429</b>	<b>3.2429</b>	<b>1.0000e-004</b>	<b>4.5000e-004</b>	<b>3.3809</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0568	0.4155	0.4976	8.0000e-004		0.0208	0.0208		0.0203	0.0203	0.0000	65.7656	65.7656	8.4700e-003	0.0000	65.9772
<b>Total</b>	<b>0.0568</b>	<b>0.4155</b>	<b>0.4976</b>	<b>8.0000e-004</b>		<b>0.0208</b>	<b>0.0208</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>65.7656</b>	<b>65.7656</b>	<b>8.4700e-003</b>	<b>0.0000</b>	<b>65.9772</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3900e-003	0.0339	0.0103	1.3000e-004	3.9100e-003	3.7000e-004	4.2800e-003	1.1300e-003	3.6000e-004	1.4900e-003	0.0000	12.4090	12.4090	2.7000e-004	1.8100e-003	12.9542
Worker	0.0112	8.0200e-003	0.0961	2.8000e-004	0.0314	1.7000e-004	0.0316	8.3500e-003	1.5000e-004	8.5100e-003	0.0000	25.3844	25.3844	8.1000e-004	7.4000e-004	25.6265
<b>Total</b>	<b>0.0125</b>	<b>0.0419</b>	<b>0.1064</b>	<b>4.1000e-004</b>	<b>0.0353</b>	<b>5.4000e-004</b>	<b>0.0359</b>	<b>9.4800e-003</b>	<b>5.1000e-004</b>	<b>0.0100</b>	<b>0.0000</b>	<b>37.7933</b>	<b>37.7933</b>	<b>1.0800e-003</b>	<b>2.5500e-003</b>	<b>38.5807</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2022**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0568	0.4155	0.4976	8.0000e-004		0.0208	0.0208		0.0203	0.0203	0.0000	65.7655	65.7655	8.4700e-003	0.0000	65.9772
<b>Total</b>	<b>0.0568</b>	<b>0.4155</b>	<b>0.4976</b>	<b>8.0000e-004</b>		<b>0.0208</b>	<b>0.0208</b>		<b>0.0203</b>	<b>0.0203</b>	<b>0.0000</b>	<b>65.7655</b>	<b>65.7655</b>	<b>8.4700e-003</b>	<b>0.0000</b>	<b>65.9772</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.3900e-003	0.0339	0.0103	1.3000e-004	3.9100e-003	3.7000e-004	4.2800e-003	1.1300e-003	3.6000e-004	1.4900e-003	0.0000	12.4090	12.4090	2.7000e-004	1.8100e-003	12.9542
Worker	0.0112	8.0200e-003	0.0961	2.8000e-004	0.0314	1.7000e-004	0.0316	8.3500e-003	1.5000e-004	8.5100e-003	0.0000	25.3844	25.3844	8.1000e-004	7.4000e-004	25.6265
<b>Total</b>	<b>0.0125</b>	<b>0.0419</b>	<b>0.1064</b>	<b>4.1000e-004</b>	<b>0.0353</b>	<b>5.4000e-004</b>	<b>0.0359</b>	<b>9.4800e-003</b>	<b>5.1000e-004</b>	<b>0.0100</b>	<b>0.0000</b>	<b>37.7933</b>	<b>37.7933</b>	<b>1.0800e-003</b>	<b>2.5500e-003</b>	<b>38.5807</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.1900e-003	8.8700e-003	0.0112	2.0000e-005		4.1000e-004	4.1000e-004		4.0000e-004	4.0000e-004	0.0000	1.4948	1.4948	1.9000e-004	0.0000	1.4995
<b>Total</b>	<b>1.1900e-003</b>	<b>8.8700e-003</b>	<b>0.0112</b>	<b>2.0000e-005</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>4.0000e-004</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.4948</b>	<b>1.4948</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.4995</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	6.0000e-004	2.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	3.0000e-005	0.0000	3.0000e-005	0.0000	0.2705	0.2705	1.0000e-005	4.0000e-005	0.2823
Worker	2.4000e-004	1.6000e-004	2.0200e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5621	0.5621	2.0000e-005	2.0000e-005	0.5672
<b>Total</b>	<b>2.6000e-004</b>	<b>7.6000e-004</b>	<b>2.2200e-003</b>	<b>1.0000e-005</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>8.1000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.8326</b>	<b>0.8326</b>	<b>3.0000e-005</b>	<b>6.0000e-005</b>	<b>0.8495</b>



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**3.5 Building Construction - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.1900e-003	8.8700e-003	0.0112	2.0000e-005		4.1000e-004	4.1000e-004		4.0000e-004	4.0000e-004	0.0000	1.4948	1.4948	1.9000e-004	0.0000	1.4995
<b>Total</b>	<b>1.1900e-003</b>	<b>8.8700e-003</b>	<b>0.0112</b>	<b>2.0000e-005</b>		<b>4.1000e-004</b>	<b>4.1000e-004</b>		<b>4.0000e-004</b>	<b>4.0000e-004</b>	<b>0.0000</b>	<b>1.4948</b>	<b>1.4948</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>1.4995</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	6.0000e-004	2.0000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	3.0000e-005	0.0000	3.0000e-005	0.0000	0.2705	0.2705	1.0000e-005	4.0000e-005	0.2823
Worker	2.4000e-004	1.6000e-004	2.0200e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5621	0.5621	2.0000e-005	2.0000e-005	0.5672
<b>Total</b>	<b>2.6000e-004</b>	<b>7.6000e-004</b>	<b>2.2200e-003</b>	<b>1.0000e-005</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>8.1000e-004</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>0.8326</b>	<b>0.8326</b>	<b>3.0000e-005</b>	<b>6.0000e-005</b>	<b>0.8495</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.6300e-003	0.0369	0.0495	8.0000e-005		1.7100e-003	1.7100e-003		1.6100e-003	1.6100e-003	0.0000	6.3645	6.3645	1.7200e-003	0.0000	6.4074
Paving	1.4700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>6.1000e-003</b>	<b>0.0369</b>	<b>0.0495</b>	<b>8.0000e-005</b>		<b>1.7100e-003</b>	<b>1.7100e-003</b>		<b>1.6100e-003</b>	<b>1.6100e-003</b>	<b>0.0000</b>	<b>6.3645</b>	<b>6.3645</b>	<b>1.7200e-003</b>	<b>0.0000</b>	<b>6.4074</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.2000e-004	4.0500e-003	1.0000e-005	1.4300e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1243	1.1243	3.0000e-005	3.0000e-005	1.1345
<b>Total</b>	<b>4.7000e-004</b>	<b>3.2000e-004</b>	<b>4.0500e-003</b>	<b>1.0000e-005</b>	<b>1.4300e-003</b>	<b>1.0000e-005</b>	<b>1.4300e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.1243</b>	<b>1.1243</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.1345</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.6 Paving - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.6300e-003	0.0369	0.0495	8.0000e-005		1.7100e-003	1.7100e-003		1.6100e-003	1.6100e-003	0.0000	6.3645	6.3645	1.7200e-003	0.0000	6.4074
Paving	1.4700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>6.1000e-003</b>	<b>0.0369</b>	<b>0.0495</b>	<b>8.0000e-005</b>		<b>1.7100e-003</b>	<b>1.7100e-003</b>		<b>1.6100e-003</b>	<b>1.6100e-003</b>	<b>0.0000</b>	<b>6.3645</b>	<b>6.3645</b>	<b>1.7200e-003</b>	<b>0.0000</b>	<b>6.4074</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.2000e-004	4.0500e-003	1.0000e-005	1.4300e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1243	1.1243	3.0000e-005	3.0000e-005	1.1345
<b>Total</b>	<b>4.7000e-004</b>	<b>3.2000e-004</b>	<b>4.0500e-003</b>	<b>1.0000e-005</b>	<b>1.4300e-003</b>	<b>1.0000e-005</b>	<b>1.4300e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.1243</b>	<b>1.1243</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.1345</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.7 Architectural Coating - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0399					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.6000e-004	5.8600e-003	8.1500e-003	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004	0.0000	1.1490	1.1490	7.0000e-005	0.0000	1.1507
<b>Total</b>	<b>0.0408</b>	<b>5.8600e-003</b>	<b>8.1500e-003</b>	<b>1.0000e-005</b>		<b>3.2000e-004</b>	<b>3.2000e-004</b>		<b>3.2000e-004</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.1490</b>	<b>1.1490</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>1.1507</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2000e-004	2.9000e-004	3.6400e-003	1.0000e-005	1.2800e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.0118	1.0118	3.0000e-005	3.0000e-005	1.0210
<b>Total</b>	<b>4.2000e-004</b>	<b>2.9000e-004</b>	<b>3.6400e-003</b>	<b>1.0000e-005</b>	<b>1.2800e-003</b>	<b>1.0000e-005</b>	<b>1.2900e-003</b>	<b>3.4000e-004</b>	<b>1.0000e-005</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.0118</b>	<b>1.0118</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.0210</b>

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**3.7 Architectural Coating - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0399					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.6000e-004	5.8600e-003	8.1500e-003	1.0000e-005		3.2000e-004	3.2000e-004		3.2000e-004	3.2000e-004	0.0000	1.1490	1.1490	7.0000e-005	0.0000	1.1507
<b>Total</b>	<b>0.0408</b>	<b>5.8600e-003</b>	<b>8.1500e-003</b>	<b>1.0000e-005</b>		<b>3.2000e-004</b>	<b>3.2000e-004</b>		<b>3.2000e-004</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.1490</b>	<b>1.1490</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>1.1507</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2000e-004	2.9000e-004	3.6400e-003	1.0000e-005	1.2800e-003	1.0000e-005	1.2900e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	1.0118	1.0118	3.0000e-005	3.0000e-005	1.0210
<b>Total</b>	<b>4.2000e-004</b>	<b>2.9000e-004</b>	<b>3.6400e-003</b>	<b>1.0000e-005</b>	<b>1.2800e-003</b>	<b>1.0000e-005</b>	<b>1.2900e-003</b>	<b>3.4000e-004</b>	<b>1.0000e-005</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.0118</b>	<b>1.0118</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.0210</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.9916	0.7139	5.9482	7.5000e-003	0.7136	6.9800e-003	0.7206	0.1906	6.4900e-003	0.1971	0.0000	698.5898	698.5898	0.0977	0.0559	717.6888
Unmitigated	0.9916	0.7139	5.9482	7.5000e-003	0.7136	6.9800e-003	0.7206	0.1906	6.4900e-003	0.1971	0.0000	698.5898	698.5898	0.0977	0.0559	717.6888

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	11.55	26.80	13.42	13,942	13,942
Convenience Market with Gas Pumps	3,688.00	1,997.44	1,997.44	1,915,033	1,915,033
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>3,699.55</b>	<b>2,024.24</b>	<b>2,010.86</b>	<b>1,928,975</b>	<b>1,928,975</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	9.50	7.30	7.30	33.00	48.00	19.00	21	51	28
Convenience Market with Gas	9.50	7.30	7.30	0.80	80.20	19.00	15.2	25.7	59.1

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Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.558086	0.056127	0.180570	0.129764	0.024304	0.005480	0.007016	0.007028	0.000551	0.000343	0.026017	0.001231	0.003481
Convenience Market with Gas Pumps	0.558086	0.056127	0.180570	0.129764	0.024304	0.005480	0.007016	0.007028	0.000551	0.000343	0.026017	0.001231	0.003481
Other Asphalt Surfaces	0.558086	0.056127	0.180570	0.129764	0.024304	0.005480	0.007016	0.007028	0.000551	0.000343	0.026017	0.001231	0.003481
Other Non-Asphalt Surfaces	0.558086	0.056127	0.180570	0.129764	0.024304	0.005480	0.007016	0.007028	0.000551	0.000343	0.026017	0.001231	0.003481
Parking Lot	0.558086	0.056127	0.180570	0.129764	0.024304	0.005480	0.007016	0.007028	0.000551	0.000343	0.026017	0.001231	0.003481

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4.1692	4.1692	6.7000e-004	8.0000e-005	4.2104
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4.1692	4.1692	6.7000e-004	8.0000e-005	4.2104
Natural Gas Mitigated	2.0000e-004	1.8200e-003	1.5300e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	1.9783	1.9783	4.0000e-005	4.0000e-005	1.9900
Natural Gas Unmitigated	2.0000e-004	1.8200e-003	1.5300e-003	1.0000e-005		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	1.9783	1.9783	4.0000e-005	4.0000e-005	1.9900



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.2 Energy by Land Use - Natural Gas**

**Unmitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	29583.4	1.6000e-004	1.4500e-003	1.2200e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5787	1.5787	3.0000e-005	3.0000e-005	1.5881
Convenience Market with Gas Pumps	7488	4.0000e-005	3.7000e-004	3.1000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.3996	0.3996	1.0000e-005	1.0000e-005	0.4020
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2.0000e-004</b>	<b>1.8200e-003</b>	<b>1.5300e-003</b>	<b>1.0000e-005</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.9783</b>	<b>1.9783</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.9900</b>

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**5.2 Energy by Land Use - Natural Gas**

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	29583.4	1.6000e-004	1.4500e-003	1.2200e-003	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5787	1.5787	3.0000e-005	3.0000e-005	1.5881
Convenience Market with Gas Pumps	7488	4.0000e-005	3.7000e-004	3.1000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.3996	0.3996	1.0000e-005	1.0000e-005	0.4020
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2.0000e-004</b>	<b>1.8200e-003</b>	<b>1.5300e-003</b>	<b>1.0000e-005</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>		<b>1.4000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.9783</b>	<b>1.9783</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.9900</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	9153	0.8469	1.4000e-004	2.0000e-005	0.8552
Convenience Market with Gas Pumps	33248	3.0762	5.0000e-004	6.0000e-005	3.1067
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	2660	0.2461	4.0000e-005	0.0000	0.2486
<b>Total</b>		<b>4.1692</b>	<b>6.8000e-004</b>	<b>8.0000e-005</b>	<b>4.2104</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.3 Energy by Land Use - Electricity**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	9153	0.8469	1.4000e-004	2.0000e-005	0.8552
Convenience Market with Gas Pumps	33248	3.0762	5.0000e-004	6.0000e-005	3.1067
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	2660	0.2461	4.0000e-005	0.0000	0.2486
<b>Total</b>		<b>4.1692</b>	<b>6.8000e-004</b>	<b>8.0000e-005</b>	<b>4.2104</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0263	1.0000e-005	6.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1700e-003	1.1700e-003	0.0000	0.0000	1.2500e-003
Unmitigated	0.0263	1.0000e-005	6.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1700e-003	1.1700e-003	0.0000	0.0000	1.2500e-003

**6.2 Area by SubCategory**

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.9900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0223					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.0000e-005	1.0000e-005	6.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1700e-003	1.1700e-003	0.0000	0.0000	1.2500e-003
<b>Total</b>	<b>0.0263</b>	<b>1.0000e-005</b>	<b>6.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.1700e-003</b>	<b>1.1700e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.2500e-003</b>

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**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.9900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0223					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.0000e-005	1.0000e-005	6.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1700e-003	1.1700e-003	0.0000	0.0000	1.2500e-003
<b>Total</b>	<b>0.0263</b>	<b>1.0000e-005</b>	<b>6.0000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.1700e-003</b>	<b>1.1700e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.2500e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

5200 Lone Tree Way Gas Station - Contra Costa County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.7884	0.0315	7.5000e-004	1.7995
Unmitigated	0.7884	0.0315	7.5000e-004	1.7995

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.963965 / 0	0.7884	0.0315	7.5000e-004	1.7995
Convenience Market with Gas Pumps	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.7884</b>	<b>0.0315</b>	<b>7.5000e-004</b>	<b>1.7995</b>

5200 Lone Tree Way Gas Station - Contra Costa County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.963965 / 0	0.7884	0.0315	7.5000e-004	1.7995
Convenience Market with Gas Pumps	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.7884</b>	<b>0.0315</b>	<b>7.5000e-004</b>	<b>1.7995</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**



5200 Lone Tree Way Gas Station - Contra Costa County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.8297	0.1672	0.0000	7.0105
Unmitigated	2.8297	0.1672	0.0000	7.0105

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	4.32	0.8769	0.0518	0.0000	2.1725
Convenience Market with Gas Pumps	9.62	1.9528	0.1154	0.0000	4.8379
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2.8297</b>	<b>0.1672</b>	<b>0.0000</b>	<b>7.0104</b>

5200 Lone Tree Way Gas Station - Contra Costa County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	4.32	0.8769	0.0518	0.0000	2.1725
Convenience Market with Gas Pumps	9.62	1.9528	0.1154	0.0000	4.8379
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2.8297</b>	<b>0.1672</b>	<b>0.0000</b>	<b>7.0104</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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5200 Lone Tree Way Gas Station - 2030 - Contra Costa County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5200 Lone Tree Way Gas Station - 2030**

**Contra Costa County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	41.40	1000sqft	0.95	41,400.00	0
Other Non-Asphalt Surfaces	0.78	Acre	0.78	33,976.80	0
Parking Lot	19.00	Space	0.17	7,600.00	0
Automobile Care Center	1.13	1000sqft	0.03	1,130.00	0
Convenience Market with Gas Pumps	3.20	1000sqft	0.07	3,200.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	4			<b>Operational Year</b>	2030
<b>Utility Company</b>	Pacific Gas and Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	203.98	<b>CH4 Intensity (lb/MW hr)</b>	0.033	<b>N2O Intensity (lb/MW hr)</b>	0.004

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Project site include approximately 53,342 SF of impervious surfaces.

Construction Phase - GHG Operational only for 2030

Off-road Equipment - construction equipment updated to be consistent with similar projects.

Trips and VMT - GHG Operational only for 2030

Demolition -

Grading - Project Description

Vehicle Trips - Weekday trip rates, diverted, and passby trips updated to reflect Trip Generation

5200 Lone Tree Way Gas Station - 2030 - Contra Costa County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Water And Wastewater - The proposed project will require 2,461 gallons of water per day, 963,965 gallons per year. The total water use was applied for indoor water use and outdoor water use was reduced to zero.

Construction Off-road Equipment Mitigation - Tier 4 for equipment > 50 hp

Off-road Equipment - GHG Operational only for 2030

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstructionPhase	NumDays	10.00	9.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	WorkerTripNumber	7.00	0.00
tblVehicleTrips	DV_TP	21.00	25.70
tblVehicleTrips	PB_TP	65.00	59.10
tblVehicleTrips	PR_TP	14.00	15.20
tblVehicleTrips	WD_TR	23.72	10.22
tblVehicleTrips	WD_TR	624.20	1,152.50
tblWater	IndoorWaterUseRate	106,311.65	963,965.00
tblWater	IndoorWaterUseRate	237,032.07	0.00
tblWater	OutdoorWaterUseRate	65,158.75	0.00
tblWater	OutdoorWaterUseRate	145,277.72	0.00

**2.0 Emissions Summary**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)

5200 Lone Tree Way Gas Station - 2030 - Contra Costa County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

		Highest	
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**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area											0.0000	1.1700e-003	1.1700e-003	0.0000	0.0000	1.2500e-003
Energy											0.0000	6.1475	6.1475	7.1000e-004	1.2000e-004	6.2005
Mobile											0.0000	596.2223	596.2223	0.0670	0.0435	610.8598
Waste											2.8297	0.0000	2.8297	0.1672	0.0000	7.0105
Water											0.3058	0.4826	0.7884	0.0315	7.5000e-004	1.7995
<b>Total</b>											<b>3.1355</b>	<b>602.8536</b>	<b>605.9891</b>	<b>0.2665</b>	<b>0.0444</b>	<b>625.8715</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area											0.0000	1.1700e-003	1.1700e-003	0.0000	0.0000	1.2500e-003
Energy											0.0000	6.1475	6.1475	7.1000e-004	1.2000e-004	6.2005
Mobile											0.0000	596.2223	596.2223	0.0670	0.0435	610.8598
Waste											2.8297	0.0000	2.8297	0.1672	0.0000	7.0105
Water											0.3058	0.4826	0.7884	0.0315	7.5000e-004	1.7995
<b>Total</b>											<b>3.1355</b>	<b>602.8536</b>	<b>605.9891</b>	<b>0.2665</b>	<b>0.0444</b>	<b>625.8715</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	1/19/2023	1/31/2023	5	9	

**Acres of Grading (Site Preparation Phase): 0**







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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**3.2 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

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

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated											0.0000	596.2223	596.2223	0.0670	0.0435	610.8598
Unmitigated											0.0000	596.2223	596.2223	0.0670	0.0435	610.8598

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	11.55	26.80	13.42	13,942	13,942
Convenience Market with Gas Pumps	3,688.00	1,997.44	1,997.44	1,915,033	1,915,033
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>3,699.55</b>	<b>2,024.24</b>	<b>2,010.86</b>	<b>1,928,975</b>	<b>1,928,975</b>

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Automobile Care Center	9.50	7.30	7.30	33.00	48.00	19.00	21	51	28
Convenience Market with Gas	9.50	7.30	7.30	0.80	80.20	19.00	15.2	25.7	59.1
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

**4.4 Fleet Mix**

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.577637	0.055806	0.175331	0.118814	0.021880	0.005573	0.007435	0.007088	0.000537	0.000305	0.024935	0.001797	0.002862
Convenience Market with Gas Pumps	0.577637	0.055806	0.175331	0.118814	0.021880	0.005573	0.007435	0.007088	0.000537	0.000305	0.024935	0.001797	0.002862
Other Asphalt Surfaces	0.577637	0.055806	0.175331	0.118814	0.021880	0.005573	0.007435	0.007088	0.000537	0.000305	0.024935	0.001797	0.002862
Other Non-Asphalt Surfaces	0.577637	0.055806	0.175331	0.118814	0.021880	0.005573	0.007435	0.007088	0.000537	0.000305	0.024935	0.001797	0.002862
Parking Lot	0.577637	0.055806	0.175331	0.118814	0.021880	0.005573	0.007435	0.007088	0.000537	0.000305	0.024935	0.001797	0.002862

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated											0.0000	4.1692	4.1692	6.7000e-004	8.0000e-005	4.2104
Electricity Unmitigated											0.0000	4.1692	4.1692	6.7000e-004	8.0000e-005	4.2104
NaturalGas Mitigated											0.0000	1.9783	1.9783	4.0000e-005	4.0000e-005	1.9900
NaturalGas Unmitigated											0.0000	1.9783	1.9783	4.0000e-005	4.0000e-005	1.9900

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.2 Energy by Land Use - Natural Gas**

**Unmitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	29583.4											0.0000	1.5787	1.5787	3.0000e-005	3.0000e-005	1.5881
Convenience Market with Gas Pumps	7488											0.0000	0.3996	0.3996	1.0000e-005	1.0000e-005	0.4020
Other Asphalt Surfaces	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>												<b>0.0000</b>	<b>1.9783</b>	<b>1.9783</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.9900</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.2 Energy by Land Use - Natural Gas**

**Mitigated**

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	29583.4											0.0000	1.5787	1.5787	3.0000e-005	3.0000e-005	1.5881
Convenience Market with Gas Pumps	7488											0.0000	0.3996	0.3996	1.0000e-005	1.0000e-005	0.4020
Other Asphalt Surfaces	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>												<b>0.0000</b>	<b>1.9783</b>	<b>1.9783</b>	<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>1.9900</b>

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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	9153	0.8469	1.4000e-004	2.0000e-005	0.8552
Convenience Market with Gas Pumps	33248	3.0762	5.0000e-004	6.0000e-005	3.1067
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	2660	0.2461	4.0000e-005	0.0000	0.2486
<b>Total</b>		<b>4.1692</b>	<b>6.8000e-004</b>	<b>8.0000e-005</b>	<b>4.2104</b>



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**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**5.3 Energy by Land Use - Electricity**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	9153	0.8469	1.4000e-004	2.0000e-005	0.8552
Convenience Market with Gas Pumps	33248	3.0762	5.0000e-004	6.0000e-005	3.1067
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	2660	0.2461	4.0000e-005	0.0000	0.2486
<b>Total</b>		<b>4.1692</b>	<b>6.8000e-004</b>	<b>8.0000e-005</b>	<b>4.2104</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

5200 Lone Tree Way Gas Station - 2030 - Contra Costa County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated											0.0000	1.1700e-003	1.1700e-003	0.0000	0.0000	1.2500e-003
Unmitigated											0.0000	1.1700e-003	1.1700e-003	0.0000	0.0000	1.2500e-003

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping											0.0000	1.1700e-003	1.1700e-003	0.0000	0.0000	1.2500e-003
<b>Total</b>											<b>0.0000</b>	<b>1.1700e-003</b>	<b>1.1700e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.2500e-003</b>

5200 Lone Tree Way Gas Station - 2030 - Contra Costa County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products											0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping											0.0000	1.1700e-003	1.1700e-003	0.0000	0.0000	1.2500e-003
<b>Total</b>											<b>0.0000</b>	<b>1.1700e-003</b>	<b>1.1700e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.2500e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

5200 Lone Tree Way Gas Station - 2030 - Contra Costa County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.7884	0.0315	7.5000e-004	1.7995
Unmitigated	0.7884	0.0315	7.5000e-004	1.7995

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.963965 / 0	0.7884	0.0315	7.5000e-004	1.7995
Convenience Market with Gas Pumps	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.7884</b>	<b>0.0315</b>	<b>7.5000e-004</b>	<b>1.7995</b>

5200 Lone Tree Way Gas Station - 2030 - Contra Costa County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**7.2 Water by Land Use**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	0.963965 / 0	0.7884	0.0315	7.5000e-004	1.7995
Convenience Market with Gas Pumps	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.7884</b>	<b>0.0315</b>	<b>7.5000e-004</b>	<b>1.7995</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

5200 Lone Tree Way Gas Station - 2030 - Contra Costa County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.8297	0.1672	0.0000	7.0105
Unmitigated	2.8297	0.1672	0.0000	7.0105

**8.2 Waste by Land Use**

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	4.32	0.8769	0.0518	0.0000	2.1725
Convenience Market with Gas Pumps	9.62	1.9528	0.1154	0.0000	4.8379
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2.8297</b>	<b>0.1672</b>	<b>0.0000</b>	<b>7.0104</b>

5200 Lone Tree Way Gas Station - 2030 - Contra Costa County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	4.32	0.8769	0.0518	0.0000	2.1725
Convenience Market with Gas Pumps	9.62	1.9528	0.1154	0.0000	4.8379
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2.8297</b>	<b>0.1672</b>	<b>0.0000</b>	<b>7.0104</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
----------------	--------	-----------	-----------	-------------	-------------	-----------

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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**Boilers**

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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5200 Lone Tree Way Gas Station - 2030 - Contra Costa County, Annual

**EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**

**User Defined Equipment**

Equipment Type	Number
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**11.0 Vegetation**

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November 23, 2021

Kevin Scudero

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**Reference:** 5200 Lone Tree Way Gas Station – Air Quality Methodology and Assumptions and Results Technical Memorandum

# **ATTACHMENT C: HEALTH RISK RESULTS AND AERMOD OUTPUT FILES**

## **5200 Lone Tree Facility**

# Spillage, Refueling, Loading, and Breathing Emissions

**Table 1-1**  
**Current and Revised TOG Emission Factors for Gasoline Dispensing Facilities**

Sub Category	Current <sup>a</sup> (lbs/kgal) <sup>b</sup>		Revised (lbs/kgal) <sup>b</sup>		
	UEF	Pre-EVR	UEF	Pre-EVR	EVR
<b>Phase II Fueling</b>					
Non-ORVR Vehicles	8.4	0.74	8.4	2.4	0.42
ORVR Vehicles	NA	NA	0.42	0.12	0.021
<b>Phase I Bulk Transfer Losses</b>					
Pressure Driven Losses	0.84	0.1	0.76	0.092	0.024
<b>Phase II Fueling - Spillage</b>					
Gasoline Dispensing Hose Permeation	0.64	0.42	0.61	0.42	0.24
<b>Gasoline Dispensing Hose Permeation</b>					
Year 2013	NA	NA	0.062	0.062	0.062
Year 2017	NA	NA	0.009	0.009	0.009

<https://ww3.arb.ca.gov/vapor/gdf-emisfactor/gdfumbrella.pdf>

Most vehicles refueling will be equipped with ORVR technology  
With current gas station regulation, use Phase II EVR spillage factors  
Pressure Driven is equivalent to breathing loss

## Volume Sources

Emissions from Spillage				
Annual Throughput (kgal)	Spillage Loss TOG (lbs/kgal)	Annual Spillage Loss TOG (lbs/year)	TOG Emission Rate (g/s)	Benzene Emission Rate (g/s)*
8,000	0.24	1920	0.0276096	0.000276096
Emissions from Refueling				
Annual Throughput (kgal)	Refueling TOG (lbs/kgal)	Annual Refueling Loss TOG (lbs/year)	Tog Emission Rate (g/s)	Benzene Emission Rate (g/s)**
8,000	0.021	168	0.00241584	2.41584E-05
<b>Total TOG Emissions from Volume On-Site Sources</b>			<b>0.03002544</b>	<b>0.000300254</b>

\*According to CARB, benzene makes up less than 1% of TOG emissions based on 2009 data, see: [https://ww3.arb.ca.gov/ei/speciate/profilereference/headspace6\\_og6838684.pdf](https://ww3.arb.ca.gov/ei/speciate/profilereference/headspace6_og6838684.pdf)

## Point Sources

Emissions from Bulk Loading				
Annual Throughput (kgal)	Refueling TOG (lbs/kgal)*	Annual Refueling Loss TOG (lbs/year)	TOG Emission Rate (g/s)	Benzene Emission Rate (g/s)**
8,000	0.15	1200	0.017256	0.00017256
Emissions from Pressure Driven (Breathing) Losses				
Annual Throughput (kgal)	Refueling TOG (lbs/kgal)	Annual Refueling Loss TOG (lbs/year)	TOG Emission Rate (g/s)	Benzene Emission Rate (g/s)**
8,000	0.024	192	0.00276096	2.76096E-05
<b>Total TOG Emissions from Point On-Site Sources</b>			<b>0.02001696</b>	<b>0.00020017</b>

\*assume Phase 1 because Phase 2 estimates are not provided by CARB

\*\*According to CARB, benzene makes up less than 1% of TOG emissions based on 2009 data, see: [https://ww3.arb.ca.gov/ei/speciate/profilereference/headspace6\\_og6838684.pdf](https://ww3.arb.ca.gov/ei/speciate/profilereference/headspace6_og6838684.pdf)

# Truck Traffic Emissions

## On-Site Truck Idling

# of Trucks per Day	PM2.5 Idling Emissions (g/vehicle/day)*	Proportion of the Day Spent Idling**	PM2.5 emissions (grams/day)	PM2.5 emissions (g/s)
79	0.033657	0.003472222	0.009232302	<b>1.06855E-07</b>

\*EMFAC 2021, aggregate speed for HHDT diesel

\*\*5 minutes maximum idling per CARB regulations

## On-Site Truck Traffic

Truck Type	# of Trucks per Day	PM2.5 Running Emissions (grams per Mile)*	Distance (miles/trip)**	PM2.5 emissions (grams/day)	PM2.5 emissions (g/s)
HDDT	79	0.131926	0.09469697	0.986946402	1.1423E-05
LHDT1	44	0.102992	0.09469697	0.429133333	4.96682E-06
LHDT2	17	0.08475	0.09469697	0.136434659	1.5791E-06
MHDT	31	0.067537	0.09469697	0.198262027	2.2947E-06
<b>TOTAL</b>				<b>2.02636E-05</b>	

\*Averaged emissions from EMFAC 2021, 5mph for HHDT, MHDT, and LHDT diesel. According to EMFAC2021 for Contra Costa County, there are 79 HHDT trips, 44 LHDT1 trips, 17 LHDT2 trips, and 31 MHDT trips.

\*\*Conservatively assume trucks travel 500 feet onsite

## Off-Site Diesel Traffic

Vehicle Type	# of Diesel Trips per Day	Vehicle Speed (mph)	PM2.5 Running Emissions (grams per Mile)*	Distance (miles/trip)**	PM2.5 emissions (grams/day)	PM2.5 emissions (g/s)
HDDT	79	25	0.009743653	0.189393939	0.145785711	1.68733E-06
LHDT1	44	25	0.04603677	0.189393939	0.383639749	4.44027E-06
LHDT2	17	25	0.040019072	0.189393939	0.128849284	1.49131E-06
MHDT	31	25	0.018435184	0.189393939	0.108236873	1.25274E-06
LDA	6	35	0.015265167	0.189393939	0.017346781	2.00773E-07
LDT1	0	35	0.205386531	0.189393939	0	0
LDT2	4	35	0.005709829	0.189393939	0.004325628	5.00651E-08
MDV	9	35	0.006336424	0.189393939	0.010800723	1.25008E-07
MH	1	35	0.075974381	0.189393939	0.014389087	1.6654E-07
OBUS	1	35	0.03250693	0.189393939	0.006156616	7.12571E-08
SBUS	1	35	0.01299179	0.189393939	0.002460566	2.84788E-08
UBUS	3	35	0.0056954	0.189393939	0.003236023	3.7454E-08
<b>TOTAL</b>					<b>9.55124E-06</b>	

# Cancer Risk Calculations

**A. Equation 5.4.1.1:**  $\text{Dose-air} = C_{\text{air}} \times \{\text{BR/BW}\} \times A \times \text{EF} \times 10^{-6}$

1. Dose-air = Dose through inhalation (mg/kg/d)
2.  $C_{\text{air}}$  = Concentration in air ( $\mu\text{g}/\text{m}^3$ )
3. {BR/BW} = Daily Breathing rate normalized to body weight (L/kg body weight - day)
4. A = Inhalation absorption factor (unitless)
5. EF = Exposure frequency (unitless), days/365 days
6.  $10^{-6}$  = Micrograms to milligrams conversion, liters to cubic meters conversion

**a: Recommended default values for EQ 5.4.1.1:**

1. {BR/BW} = Daily breathing rates by age groupings, see As supplemental information, the assessor may wish to evaluate the inhalation dose by using the mean point estimates in Table 5.6 to provide a range of breathing rates for cancer risk assessment to the risk manager.
2. Table (point estimates) and Table 5.7 (parametric model distributions for Tier III stochastic risk assessment). For Tier 1 residential estimates, use 95<sup>th</sup> percentile breathing rates in Table 5.6.
3. A = 1
4. EF = 0.96 (350 days/365 days in a year for a resident)

**A. Equation 8.2.4 A:**  $\text{RISK}_{\text{inh-res}} = \text{DOSE}_{\text{air}} \times \text{CPF} \times \text{ASF} \times \text{ED/AT} \times \text{FAH}$

7.  $\text{RISK}_{\text{inh-res}}$  = Residential inhalation cancer risk
8.  $\text{DOSE}_{\text{air}}$  = Daily inhalation dose (mg/kg-day)
9. CPF = Inhalation cancer potency factor ( $\text{mg}/\text{kg}\text{-day}^{-1}$ )
10. ASF = Age sensitivity factor for a specified age group (unitless)
11. ED = Exposure duration (in years) for a specified age group
12. AT = Averaging time for lifetime cancer risk (years)
13. FAH = Fraction of time spent at home (unitless)

**a: Recommended default values for EQ 8.2.4 A:**

5.  $\text{DOSE}_{\text{air}}$  = Calculated for each age group from Eq. 5.4.1
6. CPF = Substance-specific (see Table 7.1)
7. ASF = See Section 8.2.1
8. ED = 0.25 years for 3<sup>rd</sup> trimester, 2 years for 0<2, 7 years for 2<9, 14 years for 2<16, 14 years for 16<30, 54 years for 16-70
9. AT = 70 years\*
10. FAH = See Table 8.4

# 30-Year Cancer Risk

## Cancer Risk Calculations (Unmitigated)

Dose (Equation 5.4.1.1)

Exposure Age	Concentration (ug/m3)	Breathing Rate L/kg body weight-day)	Inhalation Absorption Factor	EF	Multiplier	DOSE (mg/kg/day)
<i>Construction (DPM)</i>						
3rd Trimester	0.633	361	1	0.95890411	0.000001	0.000219122
Infant	0.633	1090	1	0.95890411	0.000001	0.000661615
Child	0.633	572	1	0.95890411	0.000001	0.000347196
Adult	0.633	261	1	0.95890411	0.000001	0.000158423
<i>Operation (Trucks, DPM)</i>						
Infant	0.00357	1090	1	0.95890411	0.000001	3.73138E-06
Child	0.00357	572	1	0.95890411	0.000001	1.95812E-06
Adult	0.00357	233	1	0.95890411	0.000001	7.97626E-07
<i>Operation (On-Site, Benzene)</i>						
Infant	0.07724	1090	1	0.95890411	0.000001	8.07317E-05
Child	0.07724	572	1	0.95890411	0.000001	4.23656E-05
Adult	0.07724	233	1	0.95890411	0.000001	1.72573E-05

Exposure Age	DOSE (mg/kg/day)	CPF (mg/kg-day^-1)	ASF	Exposure Duration (years)/Averaging Time (years)	FAH	RISK
<i>Construction (DPM)</i>						
3rd Trimester	0.00021912	1.1	10	0.003571429	0.85	7.32E-06
Infant	0.00066162	1.1	10	0.005714286	0.85	3.53E-05
Child	0.0003472	1.1	3	0.009528571	0.72	7.86E-06
Adult	0.00015842	1.1	1	0.009528571	0.73	1.21E-06
<i>Operation (Trucks, DPM)</i>						
Infant	3.7314E-06	1.1	10	0.022857143	0.85	7.97E-07
Child	1.9581E-06	1.1	3	0.2	0.72	9.30E-07
Adult	7.9763E-07	1.1	1	0.771428571	0.73	4.94E-07
<i>Operation (On-Site, Benzene)</i>						
Infant	8.0732E-05	0.1	10	0.022857143	0.85	1.57E-06
Child	4.2366E-05	0.1	3	0.2	0.72	1.83E-06
Adult	1.7257E-05	0.1	1	0.771428571	0.73	9.72E-07

## Cancer Risk Calculations (Mitigated)

Dose (Equation 5.4.1.1)

Exposure Age	Concentration (ug/m3)	Breathing Rate L/kg body weight-day)	Inhalation Absorption Factor	EF	Multiplier	DOSE (mg/kg/day)
<i>Construction (DPM)</i>						
3rd Trimester	0.03429	361	1	0.95890411	0.000001	1.187E-05
Infant	0.03429	1090	1	0.95890411	0.000001	3.58401E-05
Child	0.03429	572	1	0.95890411	0.000001	1.88078E-05
Adult	0.03429	261	1	0.95890411	0.000001	8.58189E-06
<i>Operation (Trucks, DPM)</i>						
Infant	0.00357	1090	1	0.95890411	0.000001	3.73138E-06
Child	0.00357	572	1	0.95890411	0.000001	1.95812E-06
Adult	0.00357	233	1	0.95890411	0.000001	7.97626E-07
<i>Operation (On-Site, Benzene)</i>						
Infant	0.07724	1090	1	0.95890411	0.000001	8.07317E-05
Child	0.07724	572	1	0.95890411	0.000001	4.23656E-05
Adult	0.07724	233	1	0.95890411	0.000001	1.72573E-05

Exposure Age	DOSE (mg/kg/day)	CPF (mg/kg-day^-1)	ASF	Exposure Duration (years)/Averaging Time (years)	FAH	RISK
<i>Construction (DPM)</i>						
3rd Trimester	1.187E-05	1.1	10	0.003571429	0.85	3.96E-07
Infant	3.58401E-05	1.1	10	0.005714286	0.85	1.91E-06
Child	1.88078E-05	1.1	3	0.009528571	0.72	4.26E-07
Adult	8.58189E-06	1.1	1	0.009528571	0.73	6.57E-08
<i>Operation (Trucks, DPM)</i>						
Infant	3.73138E-06	1.1	10	0.022857143	0.85	7.97E-07
Child	1.95812E-06	1.1	3	0.2	0.72	9.30E-07
Adult	7.97626E-07	1.1	1	0.771428571	0.73	4.94E-07
<i>Operation (On-Site, Benzene)</i>						
Infant	8.07317E-05	0.1	10	0.022857143	0.85	1.57E-06
Child	4.23656E-05	0.1	3	0.2	0.72	1.83E-06
Adult	1.72573E-05	0.1	1	0.771428571	0.73	9.72E-07

## Total Cancer Risk

### Unmitigated

Exposure Age	Phase of Project	Duration of Exposure (years)	Risk
3rd trimester	Construction	0.25	7.32E-06
Infant	Construction	0.4	3.53E-05
Infant	Operation	1.6	2.37E-06
Child	Operation	14	2.76E-06
Adult	Operation	14	1.47E-06
<b>TOTAL</b>		<b>30</b>	<b>4.93E-05</b>

### Mitigated

Exposure Age	Phase of Project	Duration of Exposure (years)	Risk
3rd trimester	Construction	0.25	3.96E-07
Infant	Construction	0.4	1.91E-06
Infant	Operation	1.6	2.37E-06
Child	Operation	14	2.76E-06
Adult	Operation	14	1.47E-06
<b>TOTAL</b>		<b>30</b>	<b>8.90E-06</b>

```

**
*****
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** AERMOD Input Produced by:
** AERMOD View Ver. 10.0.0
** Lakes Environmental Software Inc.
** Date: 10/28/2021
** File: C:\Lakes\AERMOD
View\5200LoneTree_Construction\5200LoneTree_Construction.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
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CO STARTING
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  MODELOPT DFAULT CONC
  AVERTIME 1 ANNUAL
  URBANOPT 111502 Antioch
  POLLUTID PM_2.5
  RUNORNOT RUN
  ERRORFIL 5200LoneTree_Construction.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION PAREA2      AREAPOLY    609290.037    4202285.782      41.000
** Source Parameters **
  SRCPARAM PAREA2      3.8107E-07      3.000          4
  AREAVERT PAREA2      609290.037    4202285.782    609290.314    4202191.955
  AREAVERT PAREA2      609382.753    4202190.567    609381.365    4202286.893
  URBANSRC ALL
  SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**

```

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RE STARTING
  INCLUDED 5200LoneTree_Construction.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
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  PROFFILE "C:\Users\kheck\Desktop\Met Data\Livermore_2009-2014\724927.PFL"
  SURFDATA 23285 2009
  UAIRDATA 23230 2009 OAKLAND/WSO_AP
  PROFBASE 125.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 1 1ST
** Auto-Generated Plotfiles
  PLOTFILE 1 ALL 1ST 5200LONETREE_CONSTRUCTION.AD\01H1GALL.PLT 31
  PLOTFILE ANNUAL ALL 5200LONETREE_CONSTRUCTION.AD\AN00GALL.PLT 32
  SUMMFILE 5200LoneTree_Construction.sum
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** Project Parameters
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** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     10
** ZONEINX  0
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** AERMOD Input Produced by:
** AERMOD View Ver. 10.0.0
** Lakes Environmental Software Inc.
** Date: 10/28/2021
** File: C:\Lakes\AERMOD
View\5200LoneTree_Construction\5200LoneTree_Construction.ADI
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**
**
*****
** AERMOD Control Pathway
*****
**
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CO STARTING
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  MODELOPT DFAULT CONC
  AVERTIME 1 ANNUAL
  URBANOPT 111502 Antioch
  POLLUTID PM_2.5
  RUNORNOT RUN
  ERRORFIL 5200LoneTree_Construction.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION PAREA2      AREAPOLY    609290.037    4202285.782      41.000
** Source Parameters **
  SRCPARAM PAREA2      3.8107E-07      3.000          4
  AREAVERT PAREA2      609290.037    4202285.782    609290.314    4202191.955
  AREAVERT PAREA2      609382.753    4202190.567    609381.365    4202286.893
  URBANSRC ALL
  SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**
**

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RE STARTING  
INCLUDED 5200LoneTree\_Construction.rou  
RE FINISHED

\*\*  
\*\*\*\*\*  
\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

\*\*  
\*\*

ME STARTING  
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PROFFILE "C:\Users\kheck\Desktop\Met Data\Livermore\_2009-2014\724927.PFL"  
SURFDATA 23285 2009  
UAIRDATA 23230 2009 OAKLAND/WSO\_AP  
PROFBASE 125.0 METERS

ME FINISHED  
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\*\*\*\*\*  
\*\* AERMOD Output Pathway  
\*\*\*\*\*

\*\*  
\*\*

OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 1 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 1 ALL 1ST 5200LONETREE\_CONSTRUCTION.AD\01H1GALL.PLT 31  
PLOTFILE ANNUAL ALL 5200LONETREE\_CONSTRUCTION.AD\AN00GALL.PLT 32  
SUMMFILE 5200LoneTree\_Construction.sum

OU FINISHED  
\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
\*\*\* AERMET - VERSION 14134 \*\*\*  
\*\*\* 12:03:34

PAGE 1  
\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN

\*\*\* MODEL SETUP OPTIONS SUMMARY

\*\*\*  
-----  
-----

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

-- DEPOSITION LOGIC --

\*\*NO GAS DEPOSITION Data Provided.

\*\*NO PARTICLE DEPOSITION Data Provided.

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

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

\*\*Model Uses URBAN Dispersion Algorithm for the SBL for 1 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 111502.0 ; Urban Roughness Length = 1.000 m

\*\*Model Uses Regulatory DEFAULT Options:

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

\*\*Other Options Specified:

CCVR\_Sub - Meteorological data includes CCVR substitutions

TEMP\_Sub - Meteorological data includes TEMP substitutions

\*\*Model Assumes No FLAGPOLE Receptor Heights.

\*\*The User Specified a Pollutant Type of: PM\_2.5

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

\*\*This Run Includes: 1 Source(s); 1 Source Group(s); and 1574  
Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 0 VOLUME source(s)  
and: 1 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)

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

\*\*The AERMET Input Meteorological Data Version Date: 14134

\*\*Output Options Selected:

Model Outputs Tables of ANNUAL Averages by Receptor

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE  
Keyword)



^ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 12:03:34

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN  
 PAGE 3

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID	SOURCE IDs
-----	-----

ALL PAREA2 ,  
 ^ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 12:03:34

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN  
 PAGE 4

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

\*\*\*

URBAN ID	URBAN POP	SOURCE IDs
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 ^ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 12:03:34

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN  
 PAGE 5

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

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^ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel *** 10/28/21
*** AERMET - VERSION 14134 *** ***
*** 12:03:34

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

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

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^ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel *** 10/28/21
*** AERMET - VERSION 14134 *** ***
*** 12:03:34

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

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



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 ( 609604.1, 4201977.7, 42.4, 42.4, 0.0); ( 609619.1,  
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 ( 609079.1, 4201992.7, 38.1, 77.0, 0.0); ( 609094.1,  
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 ( 609109.1, 4201992.7, 38.0, 77.0, 0.0); ( 609124.1,  
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( 609139.1, 4201992.7, 38.8, 77.0, 0.0); ( 609154.1,
4201992.7, 39.0, 77.0, 0.0);
( 609169.1, 4201992.7, 39.1, 77.0, 0.0); ( 609184.1,
4201992.7, 39.4, 77.0, 0.0);
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( 609229.1, 4201992.7, 40.0, 40.0, 0.0); ( 609244.1,
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( 609259.1, 4201992.7, 40.0, 40.0, 0.0); ( 609274.1,
4201992.7, 40.0, 40.0, 0.0);
( 609289.1, 4201992.7, 40.1, 40.1, 0.0); ( 609304.1,
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( 609319.1, 4201992.7, 40.9, 40.9, 0.0); ( 609364.1,
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( 609379.1, 4201992.7, 41.1, 41.1, 0.0); ( 609394.1,
4201992.7, 41.4, 41.4, 0.0);
( 609409.1, 4201992.7, 41.9, 41.9, 0.0); ( 609424.1,
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( 609439.1, 4201992.7, 42.1, 42.1, 0.0); ( 609454.1,
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( 609469.1, 4201992.7, 42.1, 42.1, 0.0); ( 609484.1,
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( 609499.1, 4201992.7, 42.1, 42.1, 0.0); ( 609514.1,
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( 609559.1, 4201992.7, 42.1, 42.1, 0.0); ( 609574.1,
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( 609589.1, 4201992.7, 42.1, 42.1, 0.0); ( 609604.1,
4201992.7, 42.1, 42.1, 0.0);
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4201992.7, 42.0, 42.0, 0.0);
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4202007.7, 38.0, 77.0, 0.0);
( 609094.1, 4202007.7, 38.0, 77.0, 0.0); ( 609109.1,
4202007.7, 38.0, 77.0, 0.0);
( 609124.1, 4202007.7, 38.3, 77.0, 0.0); ( 609139.1,
4202007.7, 38.8, 77.0, 0.0);

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^ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel *** 10/28/21
*** AERMET - VERSION 14134 *** ***
*** 12:03:34

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

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

(METERS)

( 609154.1, 4202007.7, 39.0, 77.0, 0.0); ( 609169.1, 4202007.7, 39.0, 77.0, 0.0);  
( 609184.1, 4202007.7, 39.3, 77.0, 0.0); ( 609199.1, 4202007.7, 39.8, 77.0, 0.0);  
( 609214.1, 4202007.7, 40.0, 76.0, 0.0); ( 609229.1, 4202007.7, 40.0, 40.0, 0.0);  
( 609244.1, 4202007.7, 40.0, 40.0, 0.0); ( 609259.1, 4202007.7, 40.0, 40.0, 0.0);  
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( 609304.1, 4202007.7, 40.3, 40.3, 0.0); ( 609319.1, 4202007.7, 40.8, 40.8, 0.0);  
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( 609394.1, 4202007.7, 41.2, 41.2, 0.0); ( 609409.1, 4202007.7, 41.5, 41.5, 0.0);  
( 609424.1, 4202007.7, 41.7, 41.7, 0.0); ( 609439.1, 4202007.7, 41.9, 41.9, 0.0);  
( 609454.1, 4202007.7, 42.0, 42.0, 0.0); ( 609469.1, 4202007.7, 42.0, 42.0, 0.0);  
( 609484.1, 4202007.7, 42.0, 42.0, 0.0); ( 609499.1, 4202007.7, 42.0, 42.0, 0.0);  
( 609514.1, 4202007.7, 42.0, 42.0, 0.0); ( 609529.1, 4202007.7, 42.0, 42.0, 0.0);  
( 609544.1, 4202007.7, 42.0, 42.0, 0.0); ( 609559.1, 4202007.7, 42.0, 42.0, 0.0);  
( 609574.1, 4202007.7, 42.0, 42.0, 0.0); ( 609589.1, 4202007.7, 42.0, 42.0, 0.0);  
( 609604.1, 4202007.7, 42.0, 42.0, 0.0); ( 609619.1, 4202007.7, 42.0, 42.0, 0.0);  
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( 609064.1, 4202022.7, 38.0, 77.0, 0.0); ( 609079.1, 4202022.7, 38.0, 77.0, 0.0);  
( 609094.1, 4202022.7, 38.0, 77.0, 0.0); ( 609109.1, 4202022.7, 38.0, 77.0, 0.0);  
( 609124.1, 4202022.7, 38.3, 77.0, 0.0); ( 609139.1, 4202022.7, 38.8, 77.0, 0.0);  
( 609154.1, 4202022.7, 39.0, 77.0, 0.0); ( 609169.1, 4202022.7, 39.0, 77.0, 0.0);  
( 609184.1, 4202022.7, 39.3, 77.0, 0.0); ( 609199.1, 4202022.7, 39.8, 77.0, 0.0);  
( 609214.1, 4202022.7, 40.0, 76.0, 0.0); ( 609229.1, 4202022.7, 40.0, 40.0, 0.0);  
( 609244.1, 4202022.7, 40.0, 40.0, 0.0); ( 609259.1, 4202022.7, 40.0, 40.0, 0.0);

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( 609274.1, 4202022.7, 40.0, 40.0, 0.0); ( 609289.1,
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( 609304.1, 4202022.7, 40.3, 40.3, 0.0); ( 609319.1,
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( 609334.1, 4202022.7, 41.0, 41.0, 0.0); ( 609349.1,
4202022.7, 41.0, 41.0, 0.0);
( 609379.1, 4202022.7, 41.0, 41.0, 0.0); ( 609394.1,
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( 609409.1, 4202022.7, 41.1, 41.1, 0.0); ( 609424.1,
4202022.7, 41.4, 41.4, 0.0);
( 609439.1, 4202022.7, 41.9, 41.9, 0.0); ( 609454.1,
4202022.7, 42.0, 42.0, 0.0);
( 609469.1, 4202022.7, 42.0, 42.0, 0.0); ( 609484.1,
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( 609499.1, 4202022.7, 42.0, 42.0, 0.0); ( 609514.1,
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( 609529.1, 4202022.7, 42.0, 42.0, 0.0); ( 609544.1,
4202022.7, 42.0, 42.0, 0.0);
( 609559.1, 4202022.7, 42.0, 42.0, 0.0); ( 609574.1,
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( 609589.1, 4202022.7, 42.0, 42.0, 0.0); ( 609604.1,
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( 609619.1, 4202022.7, 42.0, 42.0, 0.0); ( 609634.1,
4202022.7, 42.0, 42.0, 0.0);
( 609649.1, 4202022.7, 42.0, 42.0, 0.0); ( 609664.1,
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( 609049.1, 4202037.7, 38.2, 77.0, 0.0); ( 609064.1,
4202037.7, 38.1, 77.0, 0.0);
( 609079.1, 4202037.7, 38.3, 77.0, 0.0); ( 609094.1,
4202037.7, 38.4, 77.0, 0.0);
( 609109.1, 4202037.7, 38.4, 77.0, 0.0); ( 609124.1,
4202037.7, 38.6, 77.0, 0.0);
( 609139.1, 4202037.7, 38.9, 77.0, 0.0); ( 609154.1,
4202037.7, 39.1, 77.0, 0.0);
( 609169.1, 4202037.7, 39.3, 77.0, 0.0); ( 609184.1,
4202037.7, 39.6, 77.0, 0.0);
( 609199.1, 4202037.7, 39.9, 77.0, 0.0); ( 609214.1,
4202037.7, 40.0, 40.0, 0.0);
( 609229.1, 4202037.7, 40.0, 40.0, 0.0); ( 609244.1,
4202037.7, 40.0, 40.0, 0.0);

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*** AERMOD - VERSION 21112 *** C:\Lakes\AERMOD
View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel *** 10/28/21
*** AERMET - VERSION 14134 ***
*** 12:03:34

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

( 609259.1, 4202037.7,	40.0,	40.0,	0.0);	( 609274.1,
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( 609289.1, 4202037.7,	40.0,	40.0,	0.0);	( 609304.1,
4202037.7,	40.3,	40.3,	0.0);	
( 609319.1, 4202037.7,	40.8,	40.8,	0.0);	( 609334.1,
4202037.7,	41.0,	41.0,	0.0);	
( 609349.1, 4202037.7,	41.0,	41.0,	0.0);	( 609394.1,
4202037.7,	41.0,	41.0,	0.0);	
( 609409.1, 4202037.7,	41.0,	41.0,	0.0);	( 609424.1,
4202037.7,	41.2,	41.2,	0.0);	
( 609439.1, 4202037.7,	41.5,	41.5,	0.0);	( 609454.1,
4202037.7,	41.7,	41.7,	0.0);	
( 609469.1, 4202037.7,	41.9,	41.9,	0.0);	( 609484.1,
4202037.7,	42.0,	42.0,	0.0);	
( 609499.1, 4202037.7,	42.0,	42.0,	0.0);	( 609514.1,
4202037.7,	42.0,	42.0,	0.0);	
( 609529.1, 4202037.7,	42.0,	42.0,	0.0);	( 609544.1,
4202037.7,	42.0,	42.0,	0.0);	
( 609559.1, 4202037.7,	42.0,	42.0,	0.0);	( 609574.1,
4202037.7,	42.0,	42.0,	0.0);	
( 609589.1, 4202037.7,	42.0,	42.0,	0.0);	( 609604.1,
4202037.7,	42.0,	42.0,	0.0);	
( 609619.1, 4202037.7,	42.0,	42.0,	0.0);	( 609634.1,
4202037.7,	41.9,	41.9,	0.0);	
( 609649.1, 4202037.7,	41.7,	41.7,	0.0);	( 609664.1,
4202037.7,	41.6,	41.6,	0.0);	
( 609679.1, 4202037.7,	41.6,	41.6,	0.0);	( 609019.1,
4202052.7,	39.2,	77.0,	0.0);	
( 609034.1, 4202052.7,	38.7,	77.0,	0.0);	( 609049.1,
4202052.7,	38.2,	77.0,	0.0);	
( 609064.1, 4202052.7,	38.3,	77.0,	0.0);	( 609079.1,
4202052.7,	38.8,	77.0,	0.0);	
( 609094.1, 4202052.7,	38.9,	77.0,	0.0);	( 609109.1,
4202052.7,	38.9,	77.0,	0.0);	
( 609124.1, 4202052.7,	38.9,	77.0,	0.0);	( 609139.1,
4202052.7,	39.0,	77.0,	0.0);	
( 609154.1, 4202052.7,	39.3,	77.0,	0.0);	( 609169.1,
4202052.7,	39.8,	77.0,	0.0);	
( 609184.1, 4202052.7,	39.9,	77.0,	0.0);	( 609199.1,
4202052.7,	40.0,	76.0,	0.0);	
( 609214.1, 4202052.7,	40.0,	40.0,	0.0);	( 609229.1,
4202052.7,	40.0,	40.0,	0.0);	
( 609244.1, 4202052.7,	40.0,	40.0,	0.0);	( 609259.1,
4202052.7,	40.0,	40.0,	0.0);	
( 609274.1, 4202052.7,	40.0,	40.0,	0.0);	( 609289.1,
4202052.7,	40.0,	40.0,	0.0);	

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( 609304.1, 4202052.7, 40.3, 40.3, 0.0); ( 609319.1,
4202052.7, 40.8, 40.8, 0.0);
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( 609364.1, 4202052.7, 41.0, 41.0, 0.0); ( 609394.1,
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( 609409.1, 4202052.7, 41.0, 41.0, 0.0); ( 609424.1,
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( 609439.1, 4202052.7, 41.1, 41.1, 0.0); ( 609454.1,
4202052.7, 41.4, 41.4, 0.0);
( 609469.1, 4202052.7, 41.9, 41.9, 0.0); ( 609484.1,
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( 609499.1, 4202052.7, 42.0, 42.0, 0.0); ( 609514.1,
4202052.7, 42.0, 42.0, 0.0);
( 609529.1, 4202052.7, 42.0, 42.0, 0.0); ( 609544.1,
4202052.7, 42.0, 42.0, 0.0);
( 609559.1, 4202052.7, 42.0, 42.0, 0.0); ( 609574.1,
4202052.7, 42.0, 42.0, 0.0);
( 609589.1, 4202052.7, 42.0, 42.0, 0.0); ( 609604.1,
4202052.7, 42.0, 42.0, 0.0);
( 609619.1, 4202052.7, 42.0, 42.0, 0.0); ( 609634.1,
4202052.7, 41.7, 41.7, 0.0);
( 609649.1, 4202052.7, 41.2, 41.2, 0.0); ( 609664.1,
4202052.7, 41.1, 41.1, 0.0);
( 609679.1, 4202052.7, 41.1, 41.1, 0.0); ( 609694.1,
4202052.7, 41.4, 41.4, 0.0);
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4202067.7, 39.2, 77.0, 0.0);
( 609034.1, 4202067.7, 38.8, 77.0, 0.0); ( 609049.1,
4202067.7, 38.5, 77.0, 0.0);
( 609064.1, 4202067.7, 38.6, 77.0, 0.0); ( 609079.1,
4202067.7, 38.9, 77.0, 0.0);
( 609094.1, 4202067.7, 39.0, 77.0, 0.0); ( 609109.1,
4202067.7, 39.0, 77.0, 0.0);
( 609124.1, 4202067.7, 39.1, 77.0, 0.0); ( 609139.1,
4202067.7, 39.3, 77.0, 0.0);
( 609154.1, 4202067.7, 39.6, 77.0, 0.0); ( 609169.1,
4202067.7, 39.9, 77.0, 0.0);
( 609184.1, 4202067.7, 40.0, 77.0, 0.0); ( 609199.1,
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( 609214.1, 4202067.7, 40.1, 40.1, 0.0); ( 609229.1,
4202067.7, 40.3, 40.3, 0.0);
( 609244.1, 4202067.7, 40.4, 40.4, 0.0); ( 609259.1,
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▲ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel ***
*** AERMET - VERSION 14134 *** ***

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10/28/21

\*\*\* 12:03:34

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

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

( 609274.1, 4202067.7,	40.4,	40.4,	0.0);	( 609289.1,
4202067.7, 40.4,	40.4,	0.0);		
( 609304.1, 4202067.7,	40.6,	40.6,	0.0);	( 609319.1,
4202067.7, 40.9,	40.9,	0.0);		
( 609334.1, 4202067.7,	41.0,	41.0,	0.0);	( 609349.1,
4202067.7, 41.0,	41.0,	0.0);		
( 609364.1, 4202067.7,	41.0,	41.0,	0.0);	( 609409.1,
4202067.7, 41.0,	41.0,	0.0);		
( 609424.1, 4202067.7,	41.0,	41.0,	0.0);	( 609439.1,
4202067.7, 41.0,	41.0,	0.0);		
( 609454.1, 4202067.7,	41.2,	41.2,	0.0);	( 609469.1,
4202067.7, 41.5,	41.5,	0.0);		
( 609484.1, 4202067.7,	41.6,	41.6,	0.0);	( 609499.1,
4202067.7, 41.6,	41.6,	0.0);		
( 609514.1, 4202067.7,	41.6,	41.6,	0.0);	( 609529.1,
4202067.7, 41.6,	41.6,	0.0);		
( 609544.1, 4202067.7,	41.6,	41.6,	0.0);	( 609559.1,
4202067.7, 41.6,	41.6,	0.0);		
( 609574.1, 4202067.7,	41.6,	41.6,	0.0);	( 609589.1,
4202067.7, 41.6,	41.6,	0.0);		
( 609604.1, 4202067.7,	41.6,	41.6,	0.0);	( 609619.1,
4202067.7, 41.6,	41.6,	0.0);		
( 609634.1, 4202067.7,	41.4,	41.4,	0.0);	( 609649.1,
4202067.7, 41.1,	41.1,	0.0);		
( 609664.1, 4202067.7,	41.0,	41.0,	0.0);	( 609679.1,
4202067.7, 41.0,	41.0,	0.0);		
( 609694.1, 4202067.7,	41.2,	41.2,	0.0);	( 609709.1,
4202067.7, 41.5,	41.5,	0.0);		
( 609004.1, 4202082.7,	39.7,	77.0,	0.0);	( 609019.1,
4202082.7, 39.2,	77.0,	0.0);		
( 609034.1, 4202082.7,	39.0,	77.0,	0.0);	( 609049.1,
4202082.7, 38.9,	77.0,	0.0);		
( 609064.1, 4202082.7,	38.9,	77.0,	0.0);	( 609079.1,
4202082.7, 39.0,	77.0,	0.0);		
( 609094.1, 4202082.7,	39.0,	77.0,	0.0);	( 609109.1,
4202082.7, 39.0,	77.0,	0.0);		
( 609124.1, 4202082.7,	39.3,	77.0,	0.0);	( 609139.1,
4202082.7, 39.8,	77.0,	0.0);		
( 609154.1, 4202082.7,	39.9,	77.0,	0.0);	( 609169.1,
4202082.7, 40.0,	77.0,	0.0);		
( 609184.1, 4202082.7,	40.0,	76.0,	0.0);	( 609199.1,
4202082.7, 40.0,	40.0,	0.0);		
( 609214.1, 4202082.7,	40.3,	40.3,	0.0);	( 609229.1,
4202082.7, 40.8,	40.8,	0.0);		

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( 609244.1, 4202082.7, 40.9, 40.9, 0.0); ( 609259.1,
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( 609604.1, 4202082.7, 41.1, 41.1, 0.0); ( 609619.1,
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( 609634.1, 4202082.7, 41.1, 41.1, 0.0); ( 609649.1,
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( 609694.1, 4202082.7, 41.0, 41.0, 0.0); ( 609709.1,
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( 609154.1, 4202097.7, 40.0, 77.0, 0.0); ( 609169.1,
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( 609184.1, 4202097.7, 40.1, 40.1, 0.0); ( 609199.1,
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^ *** AERMOD - VERSION 21112 ***      *** C:\Lakes\AERMOD
View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel ***
*** AERMET - VERSION 14134 ***      ***

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10/28/21

\*\*\* 12:03:34



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

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

( 609244.1, 4202097.7,	41.0,	41.0,	0.0);	( 609259.1,
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( 609274.1, 4202097.7,	41.0,	41.0,	0.0);	( 609319.1,
4202097.7, 41.0,	41.0,	0.0);		( 609349.1,
( 609304.1, 4202097.7,	41.0,	41.0,	0.0);	( 609409.1,
4202097.7, 41.0,	41.0,	0.0);		( 609439.1,
( 609334.1, 4202097.7,	41.0,	41.0,	0.0);	( 609469.1,
4202097.7, 41.0,	41.0,	0.0);		( 609499.1,
( 609364.1, 4202097.7,	41.0,	41.0,	0.0);	( 609529.1,
4202097.7, 41.0,	41.0,	0.0);		( 609559.1,
( 609424.1, 4202097.7,	41.0,	41.0,	0.0);	( 609589.1,
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( 609454.1, 4202097.7,	41.0,	41.0,	0.0);	( 609649.1,
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( 609484.1, 4202097.7,	41.0,	41.0,	0.0);	( 609709.1,
4202097.7, 41.0,	41.0,	0.0);		( 608989.1,
( 609514.1, 4202097.7,	41.0,	41.0,	0.0);	( 609019.1,
4202097.7, 41.0,	41.0,	0.0);		( 609049.1,
( 609544.1, 4202097.7,	41.0,	41.0,	0.0);	( 609079.1,
4202097.7, 41.0,	41.0,	0.0);		( 609109.1,
( 609574.1, 4202097.7,	41.0,	41.0,	0.0);	( 609139.1,
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( 609664.1, 4202097.7,	41.0,	41.0,	0.0);	
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( 609694.1, 4202097.7,	41.0,	41.0,	0.0);	
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( 609724.1, 4202097.7,	41.0,	41.0,	0.0);	
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( 609094.1, 4202112.7,	39.9,	77.0,	0.0);	
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( 609124.1, 4202112.7,	39.9,	77.0,	0.0);	
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\*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN

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

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( 609199.1, 4202127.7, 40.9, 40.9, 0.0);	( 609214.1, 4202127.7, 41.0, 41.0, 0.0);
( 609229.1, 4202127.7, 41.0, 41.0, 0.0);	( 609244.1, 4202127.7, 41.0, 41.0, 0.0);
( 609259.1, 4202127.7, 41.0, 41.0, 0.0);	( 609274.1, 4202127.7, 41.0, 41.0, 0.0);
( 609289.1, 4202127.7, 41.0, 41.0, 0.0);	( 609304.1, 4202127.7, 41.0, 41.0, 0.0);
( 609319.1, 4202127.7, 41.0, 41.0, 0.0);	( 609334.1, 4202127.7, 41.0, 41.0, 0.0);
( 609349.1, 4202127.7, 41.0, 41.0, 0.0);	( 609364.1, 4202127.7, 41.0, 41.0, 0.0);
( 609379.1, 4202127.7, 41.0, 41.0, 0.0);	( 609409.1, 4202127.7, 41.0, 41.0, 0.0);
( 609424.1, 4202127.7, 41.0, 41.0, 0.0);	( 609439.1, 4202127.7, 41.0, 41.0, 0.0);
( 609454.1, 4202127.7, 41.0, 41.0, 0.0);	( 609469.1, 4202127.7, 41.0, 41.0, 0.0);
( 609484.1, 4202127.7, 41.0, 41.0, 0.0);	( 609499.1, 4202127.7, 41.0, 41.0, 0.0);
( 609514.1, 4202127.7, 41.0, 41.0, 0.0);	( 609529.1, 4202127.7, 41.0, 41.0, 0.0);
( 609544.1, 4202127.7, 41.0, 41.0, 0.0);	( 609559.1, 4202127.7, 41.0, 41.0, 0.0);
( 609574.1, 4202127.7, 41.0, 41.0, 0.0);	( 609589.1, 4202127.7, 41.0, 41.0, 0.0);
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( 609664.1, 4202127.7, 41.0, 41.0, 0.0);	( 609679.1, 4202127.7, 41.0, 41.0, 0.0);
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( 609289.1, 4202142.7, 41.0, 41.0, 0.0); ( 609304.1,  
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( 609319.1, 4202142.7, 41.0, 41.0, 0.0); ( 609334.1,  
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( 609349.1, 4202142.7, 41.0, 41.0, 0.0); ( 609364.1,  
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( 609379.1, 4202142.7, 41.0, 41.0, 0.0); ( 609409.1,  
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( 609424.1, 4202142.7, 41.0, 41.0, 0.0); ( 609439.1,  
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( 609514.1, 4202142.7, 41.0, 41.0, 0.0); ( 609529.1,  
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( 609544.1, 4202142.7, 41.0, 41.0, 0.0); ( 609559.1,  
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( 609574.1, 4202142.7, 41.0, 41.0, 0.0); ( 609589.1,  
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( 609604.1, 4202142.7, 41.0, 41.0, 0.0); ( 609619.1,  
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( 609634.1, 4202142.7, 41.0, 41.0, 0.0); ( 609649.1,  
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( 609694.1, 4202142.7, 41.0, 41.0, 0.0); ( 609709.1,  
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( 609724.1, 4202142.7, 41.0, 41.0, 0.0); ( 608974.1,  
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▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Lakes\AERMOD  
View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\*  
\*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
\*\*\* 12:03:34

10/28/21

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

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

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( 609049.1, 4202157.7,	40.0,	77.0,	0.0);	( 609064.1,
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( 609079.1, 4202157.7,	40.0,	77.0,	0.0);	( 609094.1,
4202157.7, 40.0,	77.0,	0.0);		
( 609109.1, 4202157.7,	40.0,	77.0,	0.0);	( 609124.1,
4202157.7, 40.0,	77.0,	0.0);		
( 609139.1, 4202157.7,	40.0,	77.0,	0.0);	( 609154.1,
4202157.7, 40.3,	40.3,	0.0);		
( 609169.1, 4202157.7,	40.8,	40.8,	0.0);	( 609184.1,
4202157.7, 41.0,	41.0,	0.0);		
( 609199.1, 4202157.7,	41.0,	41.0,	0.0);	( 609214.1,
4202157.7, 41.0,	41.0,	0.0);		
( 609229.1, 4202157.7,	41.0,	41.0,	0.0);	( 609244.1,
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( 609259.1, 4202157.7,	41.0,	41.0,	0.0);	( 609274.1,
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( 609319.1, 4202157.7,	41.0,	41.0,	0.0);	( 609334.1,
4202157.7, 41.0,	41.0,	0.0);		
( 609349.1, 4202157.7,	41.0,	41.0,	0.0);	( 609364.1,
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( 609379.1, 4202157.7,	41.0,	41.0,	0.0);	( 609409.1,
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( 609424.1, 4202157.7,	40.7,	40.7,	0.0);	( 609439.1,
4202157.7, 40.9,	40.9,	0.0);		
( 609454.1, 4202157.7,	41.0,	41.0,	0.0);	( 609469.1,
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( 609484.1, 4202157.7,	41.0,	41.0,	0.0);	( 609499.1,
4202157.7, 41.0,	41.0,	0.0);		
( 609514.1, 4202157.7,	41.0,	41.0,	0.0);	( 609529.1,
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( 609544.1, 4202157.7,	41.0,	41.0,	0.0);	( 609559.1,
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▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Lakes\AERMOD  
View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
\*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
\*\*\* 12:03:34

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

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

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*** AERMET - VERSION 14134 ***
*** 12:03:34

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

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

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View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel *** 10/28/21
*** AERMET - VERSION 14134 ***
*** 12:03:34

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

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

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▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Lakes\AERMOD  
View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
\*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
\*\*\* 12:03:34

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

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

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▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Lakes\AERMOD  
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10/28/21

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

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

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^ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel *** 10/28/21
*** AERMET - VERSION 14134 *** ***
*** 12:03:34

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

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

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▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Lakes\AERMOD  
View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
\*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
\*\*\* 12:03:34

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

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

( 609079.1, 4202517.7, 42.0, 42.0, 0.0); ( 609094.1,  
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^ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel *** 10/28/21
*** AERMET - VERSION 14134 *** ***
*** 12:03:34

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

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

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^ *** AERMOD - VERSION 21112 *** C:\Lakes\AERMOD
View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel *** 10/28/21
*** AERMET - VERSION 14134 ***
*** 12:03:34

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

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

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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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

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

10.80, 1.54, 3.09, 5.14, 8.23,

\*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21 \*\*\* AERMET - VERSION 14134 \*\*\* 12:03:34

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

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

Surface file: C:\Users\kheck\Desktop\Met Data\Livermore\_2009-2014\724927.SFC Met Version: 14134 Profile file: C:\Users\kheck\Desktop\Met Data\Livermore\_2009-2014\724927.PFL Surface format: FREE Profile format: FREE

Surface station no.: 23285 Upper air station no.: 23230 Name: UNKNOWN Name: OAKLAND/WSO\_AP Year: 2009 Year: 2009

First 24 hours of scalar data table with columns: YR MO DY JDY HR H0 U\* W\* DT/DZ ZICNV ZIMCH M-O LEN Z0 BOWEN

09	01	01	1	05	-11.1	0.195	-9.000	-9.000	-999.	206.	59.6	0.07	0.90
1.00		2.86	63.		10.0	278.1	2.0						
09	01	01	1	06	-8.2	0.143	-9.000	-9.000	-999.	131.	32.3	0.07	0.90
1.00		2.36	72.		10.0	278.1	2.0						
09	01	01	1	07	-8.2	0.143	-9.000	-9.000	-999.	130.	32.3	0.07	0.90
1.00		2.36	75.		10.0	278.1	2.0						
09	01	01	1	08	-4.1	0.078	-9.000	-9.000	-999.	53.	10.3	0.11	0.90
0.75		1.76	13.		10.0	277.5	2.0						
09	01	01	1	09	-6.3	0.246	-9.000	-9.000	-999.	292.	211.6	0.12	0.90
0.40		2.86	347.		10.0	278.1	2.0						
09	01	01	1	10	6.6	0.303	0.261	0.016	96.	401.	-378.3	0.11	0.90
0.27		3.36	51.		10.0	278.8	2.0						
09	01	01	1	11	15.4	0.317	0.422	0.017	176.	429.	-186.8	0.07	0.90
0.23		3.86	94.		10.0	279.9	2.0						
09	01	01	1	12	47.5	0.448	0.742	0.017	309.	720.	-170.5	0.11	0.90
0.22		4.86	56.		10.0	280.9	2.0						
09	01	01	1	13	49.0	0.405	0.820	0.014	403.	621.	-122.0	0.07	0.90
0.21		4.86	63.		10.0	281.4	2.0						
09	01	01	1	14	42.7	0.405	0.809	0.014	444.	619.	-139.5	0.11	0.90
0.22		4.36	59.		10.0	282.0	2.0						
09	01	01	1	15	60.8	0.372	0.922	0.014	463.	545.	-75.6	0.07	0.90
0.25		4.36	72.		10.0	281.4	2.0						
09	01	01	1	16	14.1	0.309	0.569	0.016	467.	414.	-187.5	0.11	0.90
0.34		3.36	54.		10.0	282.0	2.0						
09	01	01	1	17	-30.4	0.311	-9.000	-9.000	-999.	417.	89.1	0.07	0.90
0.58		4.36	61.		10.0	280.4	2.0						
09	01	01	1	18	-27.0	0.239	-9.000	-9.000	-999.	282.	45.2	0.11	0.90
1.00		3.36	47.		10.0	279.9	2.0						
09	01	01	1	19	-14.9	0.131	-9.000	-9.000	-999.	120.	13.7	0.07	0.90
1.00		2.86	64.		10.0	279.2	2.0						
09	01	01	1	20	-5.8	0.078	-9.000	-9.000	-999.	53.	7.3	0.11	0.90
1.00		1.76	47.		10.0	278.8	2.0						
09	01	01	1	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	0.90
1.00		0.00	0.		10.0	277.5	2.0						
09	01	01	1	22	-4.9	0.070	-9.000	-9.000	-999.	44.	6.2	0.07	0.90
1.00		1.76	82.		10.0	276.4	2.0						
09	01	01	1	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	0.90
1.00		0.00	0.		10.0	277.0	2.0						
09	01	01	1	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	0.90
1.00		0.00	0.		10.0	277.0	2.0						

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
09	01	01	01	10.0	1	51.	2.86	279.3	99.0	-99.00	-99.00

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

^ \*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\*  
 \*\*\* AERMET - VERSION 14134 \*\*\*      \*\*\*

10/28/21

\*\*\* 12:03:34

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

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

INCLUDING SOURCE(S): PAREA2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609304.09	4201857.70	0.00296	609319.09
4201857.70	0.00294		
609334.09	4201857.70	0.00297	609349.09
4201857.70	0.00305		
609364.09	4201857.70	0.00320	609379.09
4201857.70	0.00342		
609394.09	4201857.70	0.00372	609259.09
4201872.70	0.00363		
609304.09	4201872.70	0.00321	609319.09
4201872.70	0.00319		
609334.09	4201872.70	0.00322	609349.09
4201872.70	0.00332		
609364.09	4201872.70	0.00350	609379.09
4201872.70	0.00376		
609394.09	4201872.70	0.00411	609409.09
4201872.70	0.00455		
609424.09	4201872.70	0.00510	609439.09
4201872.70	0.00575		
609454.09	4201872.70	0.00649	609199.09
4201887.70	0.00552		
609214.09	4201887.70	0.00506	609229.09
4201887.70	0.00466		
609244.09	4201887.70	0.00430	609259.09
4201887.70	0.00401		
609274.09	4201887.70	0.00377	609304.09
4201887.70	0.00351		
609319.09	4201887.70	0.00347	609334.09
4201887.70	0.00351		
609349.09	4201887.70	0.00363	609364.09
4201887.70	0.00384		
609379.09	4201887.70	0.00415	609394.09

4201887.70	0.00456			
	609409.09	4201887.70	0.00509	609424.09
4201887.70	0.00573			
	609439.09	4201887.70	0.00650	609454.09
4201887.70	0.00738			
	609469.09	4201887.70	0.00836	609484.09
4201887.70	0.00942			
	609499.09	4201887.70	0.01054	609169.09
4201902.70	0.00741			
	609184.09	4201902.70	0.00681	609199.09
4201902.70	0.00623			
	609214.09	4201902.70	0.00570	609229.09
4201902.70	0.00522			
	609244.09	4201902.70	0.00480	609259.09
4201902.70	0.00444			
	609274.09	4201902.70	0.00416	609319.09
4201902.70	0.00380			
	609334.09	4201902.70	0.00384	609349.09
4201902.70	0.00398			
	609364.09	4201902.70	0.00423	609379.09
4201902.70	0.00460			
	609394.09	4201902.70	0.00510	609409.09
4201902.70	0.00572			
	609424.09	4201902.70	0.00649	609439.09
4201902.70	0.00740			
	609454.09	4201902.70	0.00845	609469.09
4201902.70	0.00960			
	609484.09	4201902.70	0.01083	609499.09
4201902.70	0.01211			
	609514.09	4201902.70	0.01341	609529.09
4201902.70	0.01469			
	609139.09	4201917.70	0.00977	609154.09
4201917.70	0.00909			
	609169.09	4201917.70	0.00841	609184.09
4201917.70	0.00773			
	609199.09	4201917.70	0.00707	609214.09
4201917.70	0.00644			
	609229.09	4201917.70	0.00588	609244.09
4201917.70	0.00538			
	609259.09	4201917.70	0.00496	609274.09
4201917.70	0.00462			
	609289.09	4201917.70	0.00438	609319.09
4201917.70	0.00417			
	609334.09	4201917.70	0.00423	609349.09
4201917.70	0.00439			
	609364.09	4201917.70	0.00470	609379.09
4201917.70	0.00514			
	609394.09	4201917.70	0.00574	609409.09
4201917.70	0.00650			

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

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5  
 YEARS FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREA2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609424.09	4201917.70	0.00742	609439.09
4201917.70	0.00851		
609454.09	4201917.70	0.00974	609469.09
4201917.70	0.01109		
609484.09	4201917.70	0.01251	609499.09
4201917.70	0.01397		
609514.09	4201917.70	0.01542	609529.09
4201917.70	0.01684		
609544.09	4201917.70	0.01818	609109.09
4201932.70	0.01248		
609124.09	4201932.70	0.01180	609139.09
4201932.70	0.01108		
609154.09	4201932.70	0.01035	609169.09
4201932.70	0.00959		
609184.09	4201932.70	0.00882	609199.09
4201932.70	0.00805		
609214.09	4201932.70	0.00733	609229.09
4201932.70	0.00666		
609244.09	4201932.70	0.00607	609259.09
4201932.70	0.00557		
609274.09	4201932.70	0.00516	609289.09
4201932.70	0.00486		
609334.09	4201932.70	0.00467	609349.09
4201932.70	0.00488		
609364.09	4201932.70	0.00524	609379.09
4201932.70	0.00579		
609394.09	4201932.70	0.00652	609409.09
4201932.70	0.00744		
609424.09	4201932.70	0.00856	609439.09

4201932.70	0.00986		
609454.09	4201932.70	0.01132	609469.09
4201932.70	0.01289		
609484.09	4201932.70	0.01452	609499.09
4201932.70	0.01618		
609514.09	4201932.70	0.01780	609529.09
4201932.70	0.01935		
609544.09	4201932.70	0.02078	609559.09
4201932.70	0.02207		
609079.09	4201947.70	0.01541	609094.09
4201947.70	0.01482		
609109.09	4201947.70	0.01414	609124.09
4201947.70	0.01343		
609139.09	4201947.70	0.01267	609154.09
4201947.70	0.01187		
609169.09	4201947.70	0.01103	609184.09
4201947.70	0.01015		
609199.09	4201947.70	0.00926	609214.09
4201947.70	0.00841		
609229.09	4201947.70	0.00761	609244.09
4201947.70	0.00690		
609259.09	4201947.70	0.00630	609274.09
4201947.70	0.00580		
609289.09	4201947.70	0.00543	609304.09
4201947.70	0.00520		
609334.09	4201947.70	0.00519	609349.09
4201947.70	0.00545		
609364.09	4201947.70	0.00590	609379.09
4201947.70	0.00657		
609394.09	4201947.70	0.00747	609409.09
4201947.70	0.00860		
609424.09	4201947.70	0.00996	609439.09
4201947.70	0.01152		
609454.09	4201947.70	0.01324	609469.09
4201947.70	0.01508		
609484.09	4201947.70	0.01696	609499.09
4201947.70	0.01883		
609514.09	4201947.70	0.02062	609529.09
4201947.70	0.02229		
609544.09	4201947.70	0.02379	609559.09
4201947.70	0.02510		
609574.09	4201947.70	0.02620	609064.09
4201962.70	0.01777		
609079.09	4201962.70	0.01733	609094.09
4201962.70	0.01675		
609109.09	4201962.70	0.01605	609124.09
4201962.70	0.01533		
609139.09	4201962.70	0.01456	609154.09
4201962.70	0.01370		
609169.09	4201962.70	0.01277	609184.09

4201962.70 0.01177

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

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

INCLUDING SOURCE(S): PAREA2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

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

609199.09	4201962.70	0.01074	609214.09
4201962.70	0.00974		
609229.09	4201962.70	0.00879	609244.09
4201962.70	0.00792		
609259.09	4201962.70	0.00717	609274.09
4201962.70	0.00657		
609289.09	4201962.70	0.00611	609304.09
4201962.70	0.00582		
609349.09	4201962.70	0.00612	609364.09
4201962.70	0.00669		
609379.09	4201962.70	0.00752	609394.09
4201962.70	0.00864		
609409.09	4201962.70	0.01005	609424.09
4201962.70	0.01170		
609439.09	4201962.70	0.01357	609454.09
4201962.70	0.01561		
609469.09	4201962.70	0.01775	609484.09
4201962.70	0.01991		
609499.09	4201962.70	0.02200	609514.09
4201962.70	0.02396		
609529.09	4201962.70	0.02573	609544.09
4201962.70	0.02728		
609559.09	4201962.70	0.02856	609574.09
4201962.70	0.02959		
609589.09	4201962.70	0.03035	609604.09
4201962.70	0.03090		
609049.09	4201977.70	0.02020	609064.09

4201977.70	0.01988		
609079.09	4201977.70	0.01950	609094.09
4201977.70	0.01897		
609109.09	4201977.70	0.01830	609124.09
4201977.70	0.01760		
609139.09	4201977.70	0.01681	609154.09
4201977.70	0.01588		
609169.09	4201977.70	0.01484	609184.09
4201977.70	0.01372		
609199.09	4201977.70	0.01255	609214.09
4201977.70	0.01138		
609229.09	4201977.70	0.01024	609244.09
4201977.70	0.00919		
609259.09	4201977.70	0.00827	609274.09
4201977.70	0.00751		
609289.09	4201977.70	0.00694	609304.09
4201977.70	0.00657		
609319.09	4201977.70	0.00643	609349.09
4201977.70	0.00694		
609364.09	4201977.70	0.00765	609379.09
4201977.70	0.00871		
609394.09	4201977.70	0.01011	609409.09
4201977.70	0.01185		
609424.09	4201977.70	0.01389	609439.09
4201977.70	0.01616		
609454.09	4201977.70	0.01859	609469.09
4201977.70	0.02110		
609484.09	4201977.70	0.02355	609499.09
4201977.70	0.02587		
609514.09	4201977.70	0.02798	609529.09
4201977.70	0.02981		
609544.09	4201977.70	0.03134	609559.09
4201977.70	0.03255		
609574.09	4201977.70	0.03343	609589.09
4201977.70	0.03401		
609604.09	4201977.70	0.03433	609619.09
4201977.70	0.03441		
609049.09	4201992.70	0.02243	609064.09
4201992.70	0.02221		
609079.09	4201992.70	0.02193	609094.09
4201992.70	0.02150		
609109.09	4201992.70	0.02092	609124.09
4201992.70	0.02026		
609139.09	4201992.70	0.01947	609154.09
4201992.70	0.01848		
609169.09	4201992.70	0.01732	609184.09
4201992.70	0.01609		
609199.09	4201992.70	0.01479	609214.09
4201992.70	0.01342		
609229.09	4201992.70	0.01207	609244.09



4201992.70 0.01079  
609259.09 4201992.70 0.00964 609274.09

4201992.70 0.00868

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

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5  
YEARS FOR SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): PAREA2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609289.09	4201992.70	0.00794	609304.09
4201992.70	0.00747		
609319.09	4201992.70	0.00730	609364.09
4201992.70	0.00885		
609379.09	4201992.70	0.01020	609394.09
4201992.70	0.01199		
609409.09	4201992.70	0.01415	609424.09
4201992.70	0.01667		
609439.09	4201992.70	0.01945	609454.09
4201992.70	0.02236		
609469.09	4201992.70	0.02526	609484.09
4201992.70	0.02803		
609499.09	4201992.70	0.03056	609514.09
4201992.70	0.03276		
609529.09	4201992.70	0.03459	609544.09
4201992.70	0.03602		
609559.09	4201992.70	0.03706	609574.09
4201992.70	0.03772		
609589.09	4201992.70	0.03803	609604.09
4201992.70	0.03805		
609619.09	4201992.70	0.03780	609634.09
4201992.70	0.03733		
609034.09	4202007.70	0.02494	609049.09
4202007.70	0.02492		
609064.09	4202007.70	0.02487	609079.09

4202007.70	0.02473		
609094.09	4202007.70	0.02443	609109.09
4202007.70	0.02395		
609124.09	4202007.70	0.02338	609139.09
4202007.70	0.02264		
609154.09	4202007.70	0.02162	609169.09
4202007.70	0.02038		
609184.09	4202007.70	0.01904	609199.09
4202007.70	0.01759		
609214.09	4202007.70	0.01599	609229.09
4202007.70	0.01437		
609244.09	4202007.70	0.01281	609259.09
4202007.70	0.01139		
609274.09	4202007.70	0.01017	609289.09
4202007.70	0.00922		
609304.09	4202007.70	0.00860	609319.09
4202007.70	0.00837		
609334.09	4202007.70	0.00854	609379.09
4202007.70	0.01211		
609394.09	4202007.70	0.01439	609409.09
4202007.70	0.01716		
609424.09	4202007.70	0.02028	609439.09
4202007.70	0.02362		
609454.09	4202007.70	0.02705	609469.09
4202007.70	0.03038		
609484.09	4202007.70	0.03344	609499.09
4202007.70	0.03612		
609514.09	4202007.70	0.03834	609529.09
4202007.70	0.04007		
609544.09	4202007.70	0.04130	609559.09
4202007.70	0.04205		
609574.09	4202007.70	0.04238	609589.09
4202007.70	0.04234		
609604.09	4202007.70	0.04197	609619.09
4202007.70	0.04135		
609634.09	4202007.70	0.04051	609649.09
4202007.70	0.03952		
609034.09	4202022.70	0.02739	609049.09
4202022.70	0.02761		
609064.09	4202022.70	0.02779	609079.09
4202022.70	0.02786		
609094.09	4202022.70	0.02775	609109.09
4202022.70	0.02744		
609124.09	4202022.70	0.02701	609139.09
4202022.70	0.02638		
609154.09	4202022.70	0.02540	609169.09
4202022.70	0.02412		
609184.09	4202022.70	0.02270	609199.09
4202022.70	0.02109		
609214.09	4202022.70	0.01926	609229.09

4202022.70 0.01732  
 609244.09 4202022.70 0.01542 609259.09  
 4202022.70 0.01364  
 609274.09 4202022.70 0.01209 609289.09  
 4202022.70 0.01085

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 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5  
 YEARS FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREA2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609304.09	4202022.70	0.01004	609319.09
4202022.70	0.00972		
609334.09	4202022.70	0.00994	609349.09
4202022.70	0.01079		
609379.09	4202022.70	0.01461	609394.09
4202022.70	0.01755		
609409.09	4202022.70	0.02107	609424.09
4202022.70	0.02498		
609439.09	4202022.70	0.02898	609454.09
4202022.70	0.03297		
609469.09	4202022.70	0.03672	609484.09
4202022.70	0.04002		
609499.09	4202022.70	0.04276	609514.09
4202022.70	0.04487		
609529.09	4202022.70	0.04635	609544.09
4202022.70	0.04723		
609559.09	4202022.70	0.04757	609574.09
4202022.70	0.04744		
609589.09	4202022.70	0.04692	609604.09
4202022.70	0.04609		
609619.09	4202022.70	0.04502	609634.09
4202022.70	0.04377		
609649.09	4202022.70	0.04239	609664.09

4202022.70	0.04093		
609019.09	4202037.70	0.02933	609034.09
4202037.70	0.02997		
609049.09	4202037.70	0.03048	609064.09
4202037.70	0.03099		
609079.09	4202037.70	0.03141	609094.09
4202037.70	0.03159		
609109.09	4202037.70	0.03154	609124.09
4202037.70	0.03129		
609139.09	4202037.70	0.03080	609154.09
4202037.70	0.02997		
609169.09	4202037.70	0.02879	609184.09
4202037.70	0.02730		
609199.09	4202037.70	0.02552	609214.09
4202037.70	0.02342		
609229.09	4202037.70	0.02115	609244.09
4202037.70	0.01883		
609259.09	4202037.70	0.01660	609274.09
4202037.70	0.01460		
609289.09	4202037.70	0.01298	609304.09
4202037.70	0.01189		
609319.09	4202037.70	0.01145	609334.09
4202037.70	0.01173		
609349.09	4202037.70	0.01287	609394.09
4202037.70	0.02177		
609409.09	4202037.70	0.02625	609424.09
4202037.70	0.03111		
609439.09	4202037.70	0.03601	609454.09
4202037.70	0.04058		
609469.09	4202037.70	0.04464	609484.09
4202037.70	0.04804		
609499.09	4202037.70	0.05066	609514.09
4202037.70	0.05247		
609529.09	4202037.70	0.05350	609544.09
4202037.70	0.05384		
609559.09	4202037.70	0.05359	609574.09
4202037.70	0.05286		
609589.09	4202037.70	0.05175	609604.09
4202037.70	0.05036		
609619.09	4202037.70	0.04876	609634.09
4202037.70	0.04704		
609649.09	4202037.70	0.04524	609664.09
4202037.70	0.04339		
609679.09	4202037.70	0.04155	609019.09
4202052.70	0.03166		
609034.09	4202052.70	0.03261	609049.09
4202052.70	0.03344		
609064.09	4202052.70	0.03438	609079.09
4202052.70	0.03527		
609094.09	4202052.70	0.03587	609109.09

4202052.70	0.03619			
	609124.09	4202052.70	0.03624	609139.09
4202052.70	0.03597			
	609154.09	4202052.70	0.03543	609169.09
4202052.70	0.03452			
	609184.09	4202052.70	0.03306	609199.09
4202052.70	0.03113			

▲ \*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\*    10/28/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*    \*\*\*  
    \*\*\*    12:03:34

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

\*\*\* THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER    5  
 YEARS FOR SOURCE GROUP: ALL    \*\*\*  
    INCLUDING SOURCE(S):    PAREA2    ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>    IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609214.09	4202052.70	0.02879	609229.09
4202052.70	0.02615		
609244.09	4202052.70	0.02334	609259.09
4202052.70	0.02055		
609274.09	4202052.70	0.01797	609289.09
4202052.70	0.01582		
609304.09	4202052.70	0.01435	609319.09
4202052.70	0.01372		
609334.09	4202052.70	0.01409	609349.09
4202052.70	0.01565		
609364.09	4202052.70	0.01846	609394.09
4202052.70	0.02752		
609409.09	4202052.70	0.03325	609424.09
4202052.70	0.03926		
609439.09	4202052.70	0.04508	609454.09
4202052.70	0.05030		
609469.09	4202052.70	0.05450	609484.09
4202052.70	0.05776		
609499.09	4202052.70	0.06000	609514.09
4202052.70	0.06123		
609529.09	4202052.70	0.06154	609544.09

4202052.70	0.06111		
609559.09	4202052.70	0.06007	609574.09
4202052.70	0.05857		
609589.09	4202052.70	0.05674	609604.09
4202052.70	0.05468		
609619.09	4202052.70	0.05249	609634.09
4202052.70	0.05025		
609649.09	4202052.70	0.04799	609664.09
4202052.70	0.04574		
609679.09	4202052.70	0.04355	609694.09
4202052.70	0.04142		
609004.09	4202067.70	0.03257	609019.09
4202067.70	0.03391		
609034.09	4202067.70	0.03525	609049.09
4202067.70	0.03655		
609064.09	4202067.70	0.03791	609079.09
4202067.70	0.03924		
609094.09	4202067.70	0.04034	609109.09
4202067.70	0.04117		
609124.09	4202067.70	0.04178	609139.09
4202067.70	0.04206		
609154.09	4202067.70	0.04195	609169.09
4202067.70	0.04135		
609184.09	4202067.70	0.04010	609199.09
4202067.70	0.03821		
609214.09	4202067.70	0.03579	609229.09
4202067.70	0.03287		
609244.09	4202067.70	0.02954	609259.09
4202067.70	0.02605		
609274.09	4202067.70	0.02270	609289.09
4202067.70	0.01980		
609304.09	4202067.70	0.01774	609319.09
4202067.70	0.01681		
609334.09	4202067.70	0.01731	609349.09
4202067.70	0.01949		
609364.09	4202067.70	0.02339	609409.09
4202067.70	0.04284		
609424.09	4202067.70	0.05019	609439.09
4202067.70	0.05694		
609454.09	4202067.70	0.06259	609469.09
4202067.70	0.06685		
609484.09	4202067.70	0.06962	609499.09
4202067.70	0.07106		
609514.09	4202067.70	0.07130	609529.09
4202067.70	0.07054		
609544.09	4202067.70	0.06903	609559.09
4202067.70	0.06696		
609574.09	4202067.70	0.06451	609589.09
4202067.70	0.06182		
609604.09	4202067.70	0.05901	609619.09

4202067.70	0.05616			
609634.09	4202067.70	0.05333		609649.09
4202067.70	0.05058			
609664.09	4202067.70	0.04792		609679.09
4202067.70	0.04537			
609694.09	4202067.70	0.04296		609709.09
4202067.70	0.04068			
609004.09	4202082.70	0.03435		609019.09
4202082.70	0.03602			

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

\*\*\* THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER    5  
 YEARS FOR SOURCE GROUP: ALL    \*\*\*  
                                  INCLUDING SOURCE(S):    PAREA2    ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>    IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609034.09	4202082.70	0.03780	609049.09
4202082.70	0.03962		
609064.09	4202082.70	0.04147	609079.09
4202082.70	0.04327		
609094.09	4202082.70	0.04495	609109.09
4202082.70	0.04645		
609124.09	4202082.70	0.04786	609139.09
4202082.70	0.04901		
609154.09	4202082.70	0.04956	609169.09
4202082.70	0.04949		
609184.09	4202082.70	0.04872	609199.09
4202082.70	0.04715		
609214.09	4202082.70	0.04492	609229.09
4202082.70	0.04191		
609244.09	4202082.70	0.03806	609259.09
4202082.70	0.03375		
609274.09	4202082.70	0.02940	609289.09
4202082.70	0.02548		
609304.09	4202082.70	0.02254	609319.09

4202082.70	0.02116		
609334.09	4202082.70	0.02187	609349.09
4202082.70	0.02499		
609364.09	4202082.70	0.03049	609409.09
4202082.70	0.05617		
609424.09	4202082.70	0.06500	609439.09
4202082.70	0.07252		
609454.09	4202082.70	0.07820	609469.09
4202082.70	0.08185		
609484.09	4202082.70	0.08358	609499.09
4202082.70	0.08366		
609514.09	4202082.70	0.08243	609529.09
4202082.70	0.08021		
609544.09	4202082.70	0.07732	609559.09
4202082.70	0.07400		
609574.09	4202082.70	0.07044	609589.09
4202082.70	0.06680		
609604.09	4202082.70	0.06316	609619.09
4202082.70	0.05961		
609634.09	4202082.70	0.05620	609649.09
4202082.70	0.05295		
609664.09	4202082.70	0.04988	609679.09
4202082.70	0.04700		
609694.09	4202082.70	0.04430	609709.09
4202082.70	0.04178		
609004.09	4202097.70	0.03596	609019.09
4202097.70	0.03801		
609034.09	4202097.70	0.04023	609049.09
4202097.70	0.04256		
609064.09	4202097.70	0.04496	609079.09
4202097.70	0.04739		
609094.09	4202097.70	0.04981	609109.09
4202097.70	0.05215		
609124.09	4202097.70	0.05443	609139.09
4202097.70	0.05652		
609154.09	4202097.70	0.05808	609169.09
4202097.70	0.05899		
609184.09	4202097.70	0.05925	609199.09
4202097.70	0.05859		
609214.09	4202097.70	0.05686	609229.09
4202097.70	0.05392		
609244.09	4202097.70	0.04970	609259.09
4202097.70	0.04453		
609274.09	4202097.70	0.03895	609289.09
4202097.70	0.03367		
609304.09	4202097.70	0.02953	609319.09
4202097.70	0.02755		
609334.09	4202097.70	0.02863	609349.09
4202097.70	0.03322		
609364.09	4202097.70	0.04111	609409.09



4202097.70	0.07496			
609424.09	4202097.70	0.08520		609439.09
4202097.70	0.09298			
609454.09	4202097.70	0.09787		609469.09
4202097.70	0.10000			
609484.09	4202097.70	0.09978		609499.09
4202097.70	0.09776			
609514.09	4202097.70	0.09448		609529.09
4202097.70	0.09037			
609544.09	4202097.70	0.08579		609559.09
4202097.70	0.08101			

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

\*\*\* THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER    5  
 YEARS FOR SOURCE GROUP: ALL    \*\*\*  
                                  INCLUDING SOURCE(S):    PAREA2    ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

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X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609574.09	4202097.70	0.07622	609589.09
4202097.70	0.07153		
609604.09	4202097.70	0.06703	609619.09
4202097.70	0.06277		
609634.09	4202097.70	0.05877	609649.09
4202097.70	0.05504		
609664.09	4202097.70	0.05158	609679.09
4202097.70	0.04837		
609694.09	4202097.70	0.04541	609709.09
4202097.70	0.04268		
609724.09	4202097.70	0.04015	608989.09
4202112.70	0.03505		
609004.09	4202112.70	0.03729	609019.09
4202112.70	0.03974		
609034.09	4202112.70	0.04237	609049.09
4202112.70	0.04519		
609064.09	4202112.70	0.04818	609079.09

4202112.70	0.05131		
609094.09	4202112.70	0.05457	609109.09
4202112.70	0.05789		
609124.09	4202112.70	0.06121	609139.09
4202112.70	0.06443		
609154.09	4202112.70	0.06735	609169.09
4202112.70	0.06977		
609184.09	4202112.70	0.07175	609199.09
4202112.70	0.07281		
609214.09	4202112.70	0.07228	609229.09
4202112.70	0.07000		
609244.09	4202112.70	0.06588	609259.09
4202112.70	0.06004		
609274.09	4202112.70	0.05309	609289.09
4202112.70	0.04601		
609304.09	4202112.70	0.04023	609319.09
4202112.70	0.03747		
609334.09	4202112.70	0.03927	609349.09
4202112.70	0.04621		
609364.09	4202112.70	0.05766	609379.09
4202112.70	0.07210		
609409.09	4202112.70	0.10178	609424.09
4202112.70	0.11284		
609439.09	4202112.70	0.11968	609454.09
4202112.70	0.12233		
609469.09	4202112.70	0.12152	609484.09
4202112.70	0.11817		
609499.09	4202112.70	0.11315	609514.09
4202112.70	0.10716		
609529.09	4202112.70	0.10071	609544.09
4202112.70	0.09417		
609559.09	4202112.70	0.08776	609574.09
4202112.70	0.08164		
609589.09	4202112.70	0.07587	609604.09
4202112.70	0.07050		
609619.09	4202112.70	0.06554	609634.09
4202112.70	0.06097		
609649.09	4202112.70	0.05679	609664.09
4202112.70	0.05296		
609679.09	4202112.70	0.04946	609694.09
4202112.70	0.04626		
609709.09	4202112.70	0.04334	609724.09
4202112.70	0.04066		
608989.09	4202127.70	0.03581	609004.09
4202127.70	0.03828		
609019.09	4202127.70	0.04097	609034.09
4202127.70	0.04395		
609049.09	4202127.70	0.04721	609064.09
4202127.70	0.05075		
609079.09	4202127.70	0.05458	609094.09

4202127.70	0.05868			
609109.09	4202127.70	0.06305		609124.09
4202127.70	0.06761			
609139.09	4202127.70	0.07231		609154.09
4202127.70	0.07712			
609169.09	4202127.70	0.08181		609184.09
4202127.70	0.08612			
609199.09	4202127.70	0.08960		609214.09
4202127.70	0.09150			
609229.09	4202127.70	0.09128		609244.09
4202127.70	0.08846			
609259.09	4202127.70	0.08277		609274.09
4202127.70	0.07462			

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

\*\*\* THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER    5  
 YEARS FOR SOURCE GROUP: ALL    \*\*\*  
                                  INCLUDING SOURCE(S):    PAREA2    ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>    IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609289.09	4202127.70	0.06539	609304.09
4202127.70	0.05747		
609319.09	4202127.70	0.05397	609334.09
4202127.70	0.05734		
609349.09	4202127.70	0.06801	609364.09
4202127.70	0.08455		
609379.09	4202127.70	0.10438	609409.09
4202127.70	0.14057		
609424.09	4202127.70	0.15065	609439.09
4202127.70	0.15405		
609454.09	4202127.70	0.15201	609469.09
4202127.70	0.14625		
609484.09	4202127.70	0.13830	609499.09
4202127.70	0.12928		
609514.09	4202127.70	0.11996	609529.09

4202127.70	0.11080		
609544.09	4202127.70	0.10208	609559.09
4202127.70	0.09395		
609574.09	4202127.70	0.08646	609589.09
4202127.70	0.07962		
609604.09	4202127.70	0.07342	609619.09
4202127.70	0.06780		
609634.09	4202127.70	0.06272	609649.09
4202127.70	0.05813		
609664.09	4202127.70	0.05398	609679.09
4202127.70	0.05023		
609694.09	4202127.70	0.04683	609709.09
4202127.70	0.04375		
609724.09	4202127.70	0.04095	608974.09
4202142.70	0.03369		
608989.09	4202142.70	0.03613	609004.09
4202142.70	0.03877		
609019.09	4202142.70	0.04164	609034.09
4202142.70	0.04489		
609049.09	4202142.70	0.04853	609064.09
4202142.70	0.05256		
609079.09	4202142.70	0.05702	609094.09
4202142.70	0.06193		
609109.09	4202142.70	0.06733	609124.09
4202142.70	0.07321		
609139.09	4202142.70	0.07955	609154.09
4202142.70	0.08663		
609169.09	4202142.70	0.09420	609184.09
4202142.70	0.10160		
609199.09	4202142.70	0.10858	609214.09
4202142.70	0.11458		
609229.09	4202142.70	0.11867	609244.09
4202142.70	0.11966		
609259.09	4202142.70	0.11633	609274.09
4202142.70	0.10824		
609289.09	4202142.70	0.09701	609304.09
4202142.70	0.08692		
609319.09	4202142.70	0.08386	609334.09
4202142.70	0.09093		
609349.09	4202142.70	0.10725	609364.09
4202142.70	0.13037		
609379.09	4202142.70	0.15675	609409.09
4202142.70	0.19720		
609424.09	4202142.70	0.20184	609439.09
4202142.70	0.19710		
609454.09	4202142.70	0.18664	609469.09
4202142.70	0.17340		
609484.09	4202142.70	0.15926	609499.09
4202142.70	0.14533		
609514.09	4202142.70	0.13217	609529.09

4202142.70	0.12006			
609544.09	4202142.70	0.10909	609559.09	
4202142.70	0.09924			
609574.09	4202142.70	0.09045	609589.09	
4202142.70	0.08262			
609604.09	4202142.70	0.07565	609619.09	
4202142.70	0.06946			
609634.09	4202142.70	0.06393	609649.09	
4202142.70	0.05900			
609664.09	4202142.70	0.05459	609679.09	
4202142.70	0.05064			
609694.09	4202142.70	0.04709	609709.09	
4202142.70	0.04389			
609724.09	4202142.70	0.04100	608974.09	
4202157.70	0.03330			

\*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\*      10/28/21  
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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION      VALUES AVERAGED OVER      5  
 YEARS FOR SOURCE GROUP: ALL      \*\*\*  
    INCLUDING SOURCE(S):      PAREA2      ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>    IN MICROGRAMS/M<sup>3</sup>

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X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
608989.09	4202157.70	0.03582	609004.09
4202157.70	0.03858		
609019.09	4202157.70	0.04159	609034.09
4202157.70	0.04504		
609049.09	4202157.70	0.04896	609064.09
4202157.70	0.05337		
609079.09	4202157.70	0.05834	609094.09
4202157.70	0.06394		
609109.09	4202157.70	0.07025	609124.09
4202157.70	0.07735		
609139.09	4202157.70	0.08531	609154.09
4202157.70	0.09460		
609169.09	4202157.70	0.10514	609184.09

4202157.70	0.11631		
609199.09	4202157.70	0.12806	609214.09
4202157.70	0.14016		
609229.09	4202157.70	0.15171	609244.09
4202157.70	0.16104		
609259.09	4202157.70	0.16544	609274.09
4202157.70	0.16181		
609289.09	4202157.70	0.15055	609304.09
4202157.70	0.14054		
609319.09	4202157.70	0.14389	609334.09
4202157.70	0.16032		
609349.09	4202157.70	0.18411	609364.09
4202157.70	0.21308		
609379.09	4202157.70	0.24548	609409.09
4202157.70	0.27838		
609424.09	4202157.70	0.26793	609439.09
4202157.70	0.24808		
609454.09	4202157.70	0.22459	609469.09
4202157.70	0.20124		
609484.09	4202157.70	0.17958	609499.09
4202157.70	0.16012		
609514.09	4202157.70	0.14293	609529.09
4202157.70	0.12787		
609544.09	4202157.70	0.11475	609559.09
4202157.70	0.10332		
609574.09	4202157.70	0.09337	609589.09
4202157.70	0.08469		
609604.09	4202157.70	0.07709	609619.09
4202157.70	0.07043		
609634.09	4202157.70	0.06456	609649.09
4202157.70	0.05937		
609664.09	4202157.70	0.05477	609679.09
4202157.70	0.05068		
609694.09	4202157.70	0.04702	609709.09
4202157.70	0.04375		
609724.09	4202157.70	0.04080	608959.09
4202172.70	0.03004		
608974.09	4202172.70	0.03231	608989.09
4202172.70	0.03484		
609004.09	4202172.70	0.03763	609019.09
4202172.70	0.04070		
609034.09	4202172.70	0.04423	609049.09
4202172.70	0.04829		
609064.09	4202172.70	0.05291	609079.09
4202172.70	0.05820		
609094.09	4202172.70	0.06426	609109.09
4202172.70	0.07123		
609124.09	4202172.70	0.07926	609139.09
4202172.70	0.08855		
609154.09	4202172.70	0.09975	609169.09

4202172.70	0.11301			
609184.09	4202172.70	0.12793		609199.09
4202172.70	0.14493			
609214.09	4202172.70	0.16439		609229.09
4202172.70	0.18631			
609244.09	4202172.70	0.21001		609259.09
4202172.70	0.23288			
609274.09	4202172.70	0.24737		609289.09
4202172.70	0.24412			
609304.09	4202172.70	0.24587		609319.09
4202172.70	0.27939			
609334.09	4202172.70	0.31894		609349.09
4202172.70	0.35009			
609364.09	4202172.70	0.37526		609379.09
4202172.70	0.40581			
609409.09	4202172.70	0.38993		609424.09
4202172.70	0.34647			

^ \*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs:    RegDEFAULT    CONC    ELEV    URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER    5  
 YEARS FOR SOURCE GROUP: ALL    \*\*\*  
    INCLUDING SOURCE(S):    PAREA2    ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>    IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609439.09	4202172.70	0.30301	609454.09
4202172.70	0.26228		
609469.09	4202172.70	0.22705	609484.09
4202172.70	0.19731		
609499.09	4202172.70	0.17231	609514.09
4202172.70	0.15130		
609529.09	4202172.70	0.13359	609544.09
4202172.70	0.11862		
609559.09	4202172.70	0.10589	609574.09
4202172.70	0.09503		
609589.09	4202172.70	0.08570	609604.09

4202172.70	0.07764		
609619.09	4202172.70	0.07066	609634.09
4202172.70	0.06456		
609649.09	4202172.70	0.05921	609664.09
4202172.70	0.05450		
609679.09	4202172.70	0.05034	609694.09
4202172.70	0.04663		
609709.09	4202172.70	0.04332	609724.09
4202172.70	0.04036		
608959.09	4202187.70	0.02850	608974.09
4202187.70	0.03070		
608989.09	4202187.70	0.03317	609004.09
4202187.70	0.03590		
609019.09	4202187.70	0.03897	609034.09
4202187.70	0.04246		
609049.09	4202187.70	0.04643	609064.09
4202187.70	0.05103		
609079.09	4202187.70	0.05637	609094.09
4202187.70	0.06258		
609109.09	4202187.70	0.06982	609124.09
4202187.70	0.07832		
609139.09	4202187.70	0.08837	609154.09
4202187.70	0.10079		
609169.09	4202187.70	0.11593	609184.09
4202187.70	0.13371		
609199.09	4202187.70	0.15501	609214.09
4202187.70	0.18103		
609229.09	4202187.70	0.21314	609244.09
4202187.70	0.25324		
609259.09	4202187.70	0.30379	609274.09
4202187.70	0.36321		
609409.09	4202187.70	0.52437	609424.09
4202187.70	0.42609		
609439.09	4202187.70	0.35191	609454.09
4202187.70	0.29350		
609469.09	4202187.70	0.24734	609484.09
4202187.70	0.21033		
609499.09	4202187.70	0.18056	609514.09
4202187.70	0.15643		
609529.09	4202187.70	0.13668	609544.09
4202187.70	0.12035		
609559.09	4202187.70	0.10673	609574.09
4202187.70	0.09528		
609589.09	4202187.70	0.08556	609604.09
4202187.70	0.07726		
609619.09	4202187.70	0.07011	609634.09
4202187.70	0.06389		
609649.09	4202187.70	0.05846	609664.09
4202187.70	0.05375		
609679.09	4202187.70	0.04960	609694.09



4202187.70	0.04591			
609709.09	4202187.70	0.04262		609724.09
4202187.70	0.03968			
608959.09	4202202.70	0.02644		608974.09
4202202.70	0.02851			
608989.09	4202202.70	0.03082		609004.09
4202202.70	0.03342			
609019.09	4202202.70	0.03636		609034.09
4202202.70	0.03966			
609049.09	4202202.70	0.04336		609064.09
4202202.70	0.04772			
609079.09	4202202.70	0.05284		609094.09
4202202.70	0.05883			
609109.09	4202202.70	0.06589		609124.09
4202202.70	0.07429			
609139.09	4202202.70	0.08435		609154.09
4202202.70	0.09699			
609169.09	4202202.70	0.11274		609184.09
4202202.70	0.13173			

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

\*\*\* THE ANNUAL AVERAGE CONCENTRATION      VALUES AVERAGED OVER      5  
 YEARS FOR SOURCE GROUP: ALL      \*\*\*  
    INCLUDING SOURCE(S):      PAREA2      ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>      IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609199.09	4202202.70	0.15518	609214.09
4202202.70	0.18483		
609229.09	4202202.70	0.22288	609244.09
4202202.70	0.27275		
609259.09	4202202.70	0.33956	609274.09
4202202.70	0.42509		
609409.09	4202202.70	0.63294	609424.09
4202202.70	0.48591		
609439.09	4202202.70	0.38480	609454.09

4202202.70	0.31301		
609469.09	4202202.70	0.25910	609484.09
4202202.70	0.21687		
609499.09	4202202.70	0.18383	609514.09
4202202.70	0.15774		
609529.09	4202202.70	0.13680	609544.09
4202202.70	0.11977		
609559.09	4202202.70	0.10575	609574.09
4202202.70	0.09408		
609589.09	4202202.70	0.08426	609604.09
4202202.70	0.07593		
609619.09	4202202.70	0.06879	609634.09
4202202.70	0.06258		
609649.09	4202202.70	0.05716	609664.09
4202202.70	0.05254		
609679.09	4202202.70	0.04850	609694.09
4202202.70	0.04488		
609709.09	4202202.70	0.04165	609724.09
4202202.70	0.03877		
608959.09	4202217.70	0.02399	608974.09
4202217.70	0.02585		
608989.09	4202217.70	0.02793	609004.09
4202217.70	0.03027		
609019.09	4202217.70	0.03293	609034.09
4202217.70	0.03593		
609049.09	4202217.70	0.03933	609064.09
4202217.70	0.04327		
609079.09	4202217.70	0.04784	609094.09
4202217.70	0.05326		
609109.09	4202217.70	0.05972	609124.09
4202217.70	0.06744		
609139.09	4202217.70	0.07678	609154.09
4202217.70	0.08864		
609169.09	4202217.70	0.10362	609184.09
4202217.70	0.12201		
609199.09	4202217.70	0.14518	609214.09
4202217.70	0.17515		
609229.09	4202217.70	0.21449	609244.09
4202217.70	0.26705		
609259.09	4202217.70	0.33830	609274.09
4202217.70	0.43001		
609484.09	4202217.70	0.21561	609499.09
4202217.70	0.18166		
609514.09	4202217.70	0.15505	609529.09
4202217.70	0.13392		
609544.09	4202217.70	0.11690	609559.09
4202217.70	0.10300		
609574.09	4202217.70	0.09150	609589.09
4202217.70	0.08186		
609604.09	4202217.70	0.07368	609619.09

4202217.70	0.06669			
	609634.09	4202217.70	0.06066	609649.09
4202217.70	0.05543			
	609664.09	4202217.70	0.05094	609679.09
4202217.70	0.04702			
	609694.09	4202217.70	0.04352	609709.09
4202217.70	0.04041			
	609724.09	4202217.70	0.03766	608959.09
4202232.70	0.02129			
	608974.09	4202232.70	0.02289	608989.09
4202232.70	0.02468			
	609004.09	4202232.70	0.02670	609019.09
4202232.70	0.02898			
	609034.09	4202232.70	0.03158	609049.09
4202232.70	0.03455			
	609064.09	4202232.70	0.03792	609079.09
4202232.70	0.04177			
	609094.09	4202232.70	0.04637	609109.09
4202232.70	0.05189			
	609124.09	4202232.70	0.05852	609139.09
4202232.70	0.06655			

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

\*\*\* THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER    5  
 YEARS FOR SOURCE GROUP: ALL    \*\*\*  
                                  INCLUDING SOURCE(S):    PAREA2    ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>    IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609154.09	4202232.70	0.07681	609169.09
4202232.70	0.08990		
609184.09	4202232.70	0.10616	609199.09
4202232.70	0.12702		
609214.09	4202232.70	0.15465	609229.09
4202232.70	0.19201		
609244.09	4202232.70	0.24360	609259.09

4202232.70	0.31591		
609274.09	4202232.70	0.41200	609424.09
4202232.70	0.51835		
609439.09	4202232.70	0.39466	609454.09
4202232.70	0.31019		
609469.09	4202232.70	0.25038	609484.09
4202232.70	0.20715		
609499.09	4202232.70	0.17446	609514.09
4202232.70	0.14872		
609529.09	4202232.70	0.12833	609544.09
4202232.70	0.11199		
609559.09	4202232.70	0.09868	609574.09
4202232.70	0.08769		
609589.09	4202232.70	0.07851	609604.09
4202232.70	0.07067		
609619.09	4202232.70	0.06394	609634.09
4202232.70	0.05823		
609649.09	4202232.70	0.05330	609664.09
4202232.70	0.04901		
609679.09	4202232.70	0.04524	609694.09
4202232.70	0.04191		
609709.09	4202232.70	0.03894	609724.09
4202232.70	0.03637		
608959.09	4202247.70	0.01850	608974.09
4202247.70	0.01982		
608989.09	4202247.70	0.02130	609004.09
4202247.70	0.02296		
609019.09	4202247.70	0.02482	609034.09
4202247.70	0.02694		
609049.09	4202247.70	0.02936	609064.09
4202247.70	0.03208		
609079.09	4202247.70	0.03515	609094.09
4202247.70	0.03883		
609109.09	4202247.70	0.04324	609124.09
4202247.70	0.04851		
609139.09	4202247.70	0.05488	609154.09
4202247.70	0.06293		
609169.09	4202247.70	0.07315	609184.09
4202247.70	0.08622		
609199.09	4202247.70	0.10343	609214.09
4202247.70	0.12652		
609229.09	4202247.70	0.15868	609244.09
4202247.70	0.20523		
609259.09	4202247.70	0.27434	609274.09
4202247.70	0.37161		
609424.09	4202247.70	0.49061	609439.09
4202247.70	0.37081		
609454.09	4202247.70	0.29023	609469.09
4202247.70	0.23381		
609484.09	4202247.70	0.19334	609499.09

4202247.70	0.16295			
609514.09	4202247.70	0.13917		609529.09
4202247.70	0.12036			
609544.09	4202247.70	0.10537		609559.09
4202247.70	0.09313			
609574.09	4202247.70	0.08295		609589.09
4202247.70	0.07441			
609604.09	4202247.70	0.06709		609619.09
4202247.70	0.06080			
609634.09	4202247.70	0.05546		609649.09
4202247.70	0.05086			
609664.09	4202247.70	0.04683		609679.09
4202247.70	0.04328			
609694.09	4202247.70	0.04014		609709.09
4202247.70	0.03735			
609724.09	4202247.70	0.03492		608959.09
4202262.70	0.01579			
608974.09	4202262.70	0.01685		608989.09
4202262.70	0.01802			
609004.09	4202262.70	0.01931		609019.09
4202262.70	0.02076			
609034.09	4202262.70	0.02240		609049.09
4202262.70	0.02426			

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

\*\*\* THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER    5  
 YEARS FOR SOURCE GROUP: ALL    \*\*\*  
                                  INCLUDING SOURCE(S):    PAREA2    ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>    IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609064.09	4202262.70	0.02632	609079.09
4202262.70	0.02863		
609094.09	4202262.70	0.03138	609109.09
4202262.70	0.03465		
609124.09	4202262.70	0.03852	609139.09

4202262.70	0.04316		
609154.09	4202262.70	0.04885	609169.09
4202262.70	0.05596		
609184.09	4202262.70	0.06535	609199.09
4202262.70	0.07794		
609214.09	4202262.70	0.09467	609229.09
4202262.70	0.11826		
609244.09	4202262.70	0.15376	609259.09
4202262.70	0.21036		
609274.09	4202262.70	0.29865	609424.09
4202262.70	0.43614		
609439.09	4202262.70	0.33157	609454.09
4202262.70	0.26138		
609469.09	4202262.70	0.21199	609484.09
4202262.70	0.17596		
609499.09	4202262.70	0.14881	609514.09
4202262.70	0.12770		
609529.09	4202262.70	0.11098	609544.09
4202262.70	0.09771		
609559.09	4202262.70	0.08682	609574.09
4202262.70	0.07761		
609589.09	4202262.70	0.06982	609604.09
4202262.70	0.06313		
609619.09	4202262.70	0.05736	609634.09
4202262.70	0.05245		
609649.09	4202262.70	0.04820	609664.09
4202262.70	0.04447		
609679.09	4202262.70	0.04118	609694.09
4202262.70	0.03826		
609709.09	4202262.70	0.03565	609724.09
4202262.70	0.03338		
609424.09	4202277.70	0.36337	609439.09
4202277.70	0.28349		
609454.09	4202277.70	0.22793	609469.09
4202277.70	0.18763		
609484.09	4202277.70	0.15745	609499.09
4202277.70	0.13427		
609514.09	4202277.70	0.11607	609529.09
4202277.70	0.10150		
609544.09	4202277.70	0.08978	609559.09
4202277.70	0.08011		
609574.09	4202277.70	0.07191	609589.09
4202277.70	0.06494		
609604.09	4202277.70	0.05894	609619.09
4202277.70	0.05376		
609634.09	4202277.70	0.04930	609649.09
4202277.70	0.04543		
609664.09	4202277.70	0.04201	609679.09
4202277.70	0.03899		
609694.09	4202277.70	0.03630	609709.09

4202277.70	0.03389			
609724.09	4202277.70	0.03176		609409.09
4202322.70	0.20433			
609424.09	4202322.70	0.18291		609439.09
4202322.70	0.16110			
609454.09	4202322.70	0.14116		609469.09
4202322.70	0.12376			
609484.09	4202322.70	0.10888		609499.09
4202322.70	0.09626			
609514.09	4202322.70	0.08556		609529.09
4202322.70	0.07649			
609544.09	4202322.70	0.06878		609559.09
4202322.70	0.06218			
609574.09	4202322.70	0.05652		609589.09
4202322.70	0.05163			
609604.09	4202322.70	0.04738		609619.09
4202322.70	0.04366			
609634.09	4202322.70	0.04039		609649.09
4202322.70	0.03750			
609664.09	4202322.70	0.03493		609679.09
4202322.70	0.03263			
609694.09	4202322.70	0.03057		609409.09
4202337.70	0.15901			
609424.09	4202337.70	0.14780		609439.09
4202337.70	0.13446			

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

\*\*\* THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER    5  
 YEARS FOR SOURCE GROUP: ALL    \*\*\*  
                                  INCLUDING SOURCE(S):    PAREA2    ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

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X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609454.09	4202337.70	0.12093	609469.09
4202337.70	0.10821		
609484.09	4202337.70	0.09673	609499.09

4202337.70	0.08659		
609514.09	4202337.70	0.07772	609529.09
4202337.70	0.07002		
609544.09	4202337.70	0.06334	609559.09
4202337.70	0.05754		
609574.09	4202337.70	0.05250	609589.09
4202337.70	0.04810		
609604.09	4202337.70	0.04426	609619.09
4202337.70	0.04088		
609634.09	4202337.70	0.03787	609649.09
4202337.70	0.03519		
609664.09	4202337.70	0.03283	609679.09
4202337.70	0.03072		
609694.09	4202337.70	0.02883	609709.09
4202337.70	0.02712		
609724.09	4202337.70	0.02560	609409.09
4202352.70	0.12619		
609424.09	4202352.70	0.12066	609439.09
4202352.70	0.11279		
609454.09	4202352.70	0.10388	609469.09
4202352.70	0.09483		
609484.09	4202352.70	0.08615	609499.09
4202352.70	0.07812		
609514.09	4202352.70	0.07085	609529.09
4202352.70	0.06435		
609544.09	4202352.70	0.05859	609559.09
4202352.70	0.05349		
609574.09	4202352.70	0.04900	609589.09
4202352.70	0.04503		
609604.09	4202352.70	0.04153	609619.09
4202352.70	0.03844		
609634.09	4202352.70	0.03564	609649.09
4202352.70	0.03312		
609664.09	4202352.70	0.03093	609679.09
4202352.70	0.02899		
609694.09	4202352.70	0.02724	609709.09
4202352.70	0.02566		
609724.09	4202352.70	0.02430	609409.09
4202367.70	0.10189		
609424.09	4202367.70	0.09952	609439.09
4202367.70	0.09509		
609454.09	4202367.70	0.08941	609469.09
4202367.70	0.08314		
609484.09	4202367.70	0.07675	609499.09
4202367.70	0.07054		
609514.09	4202367.70	0.06469	609529.09
4202367.70	0.05928		
609544.09	4202367.70	0.05436	609559.09
4202367.70	0.04991		
609574.09	4202367.70	0.04588	609589.09



4202367.70	0.04226			
609604.09	4202367.70	0.03907		609619.09
4202367.70	0.03624			
609634.09	4202367.70	0.03367		609649.09
4202367.70	0.03136			
609664.09	4202367.70	0.02932		609679.09
4202367.70	0.02751			
609694.09	4202367.70	0.02587		609709.09
4202367.70	0.02439			
609724.09	4202367.70	0.02313		609394.09
4202382.70	0.08212			
609409.09	4202382.70	0.08358		609424.09
4202382.70	0.08293			
609439.09	4202382.70	0.08062		609454.09
4202382.70	0.07713			
609469.09	4202382.70	0.07292		609484.09
4202382.70	0.06833			
609499.09	4202382.70	0.06364		609514.09
4202382.70	0.05903			
609529.09	4202382.70	0.05462		609544.09
4202382.70	0.05049			
609559.09	4202382.70	0.04666		609574.09
4202382.70	0.04306			
609589.09	4202382.70	0.03975		609604.09
4202382.70	0.03685			
609619.09	4202382.70	0.03427		609634.09
4202382.70	0.03194			

▲ \*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\*    10/28/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*    \*\*\*  
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\*\*\* MODELOPTs:    RegDEFAULT    CONC    ELEV    URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER    5  
 YEARS FOR SOURCE GROUP: ALL    \*\*\*  
                                  INCLUDING SOURCE(S):    PAREA2    ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>    IN MICROGRAMS/M\*\*3

\*\*

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

-----	-----	-----	-----
609649.09	4202382.70	0.02983	609664.09

4202382.70	0.02794		
609679.09	4202382.70	0.02623	609694.09
4202382.70	0.02469		
609709.09	4202382.70	0.02328	609724.09
4202382.70	0.02210		
609394.09	4202397.70	0.06774	609409.09
4202397.70	0.06956		
609424.09	4202397.70	0.06984	609439.09
4202397.70	0.06881		
609454.09	4202397.70	0.06676	609469.09
4202397.70	0.06400		
609484.09	4202397.70	0.06078	609499.09
4202397.70	0.05732		
609514.09	4202397.70	0.05377	609529.09
4202397.70	0.05026		
609544.09	4202397.70	0.04680	609559.09
4202397.70	0.04350		
609574.09	4202397.70	0.04040	609589.09
4202397.70	0.03752		
609604.09	4202397.70	0.03493	609619.09
4202397.70	0.03259		
609634.09	4202397.70	0.03045	609649.09
4202397.70	0.02850		
609664.09	4202397.70	0.02673	609679.09
4202397.70	0.02512		
609694.09	4202397.70	0.02365	609709.09
4202397.70	0.02232		
609724.09	4202397.70	0.02116	609394.09
4202412.70	0.05677		
609409.09	4202412.70	0.05867	609424.09
4202412.70	0.05942		
609439.09	4202412.70	0.05915	609454.09
4202412.70	0.05804		
609469.09	4202412.70	0.05629	609484.09
4202412.70	0.05408		
609499.09	4202412.70	0.05157	609514.09
4202412.70	0.04889		
609529.09	4202412.70	0.04614	609544.09
4202412.70	0.04328		
609559.09	4202412.70	0.04045	609574.09
4202412.70	0.03785		
609589.09	4202412.70	0.03543	609604.09
4202412.70	0.03316		
609619.09	4202412.70	0.03106	609634.09
4202412.70	0.02911		
609649.09	4202412.70	0.02731	609664.09
4202412.70	0.02565		
609679.09	4202412.70	0.02414	609694.09
4202412.70	0.02275		
609709.09	4202412.70	0.02148	609724.09

4202412.70	0.02033			
609394.09	4202427.70	0.04824	609409.09	
4202427.70	0.05008			
609424.09	4202427.70	0.05105	609439.09	
4202427.70	0.05123			
609454.09	4202427.70	0.05072	609469.09	
4202427.70	0.04966			
609484.09	4202427.70	0.04817	609499.09	
4202427.70	0.04639			
609514.09	4202427.70	0.04439	609529.09	
4202427.70	0.04228			
609544.09	4202427.70	0.04003	609559.09	
4202427.70	0.03776			
609574.09	4202427.70	0.03556	609589.09	
4202427.70	0.03344			
609604.09	4202427.70	0.03146	609619.09	
4202427.70	0.02960			
609634.09	4202427.70	0.02784	609649.09	
4202427.70	0.02619			
609664.09	4202427.70	0.02466	609679.09	
4202427.70	0.02325			
609694.09	4202427.70	0.02194	609709.09	
4202427.70	0.02073			
609724.09	4202427.70	0.01962	609439.09	
4202472.70	0.03475			
609454.09	4202472.70	0.03501	609469.09	
4202472.70	0.03494			
609484.09	4202472.70	0.03459	609499.09	
4202472.70	0.03402			

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 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\*      10/28/21  
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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN

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

INCLUDING SOURCE(S):      PAREA2      ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>      IN MICROGRAMS/M<sup>3</sup>

\*\*

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

-----

609514.09	4202472.70	0.03325	609529.09
4202472.70	0.03235		
609544.09	4202472.70	0.03133	609559.09
4202472.70	0.03024		
609574.09	4202472.70	0.02908	609589.09
4202472.70	0.02789		
609604.09	4202472.70	0.02663	609619.09
4202472.70	0.02536		
609634.09	4202472.70	0.02417	609649.09
4202472.70	0.02302		
609664.09	4202472.70	0.02190	609679.09
4202472.70	0.02083		
609694.09	4202472.70	0.01980	609319.09
4202487.70	0.01860		
609334.09	4202487.70	0.02070	609349.09
4202487.70	0.02280		
609364.09	4202487.70	0.02481	609394.09
4202487.70	0.02820		
609409.09	4202487.70	0.02944	609424.09
4202487.70	0.03040		
609439.09	4202487.70	0.03106	609454.09
4202487.70	0.03137		
609469.09	4202487.70	0.03138	609484.09
4202487.70	0.03119		
609499.09	4202487.70	0.03082	609514.09
4202487.70	0.03028		
609529.09	4202487.70	0.02961	609544.09
4202487.70	0.02884		
609559.09	4202487.70	0.02798	609574.09
4202487.70	0.02706		
609589.09	4202487.70	0.02610	609604.09
4202487.70	0.02507		
609619.09	4202487.70	0.02403	609634.09
4202487.70	0.02301		
609649.09	4202487.70	0.02202	609664.09
4202487.70	0.02102		
609679.09	4202487.70	0.02004	609184.09
4202502.70	0.00649		
609199.09	4202502.70	0.00707	609214.09
4202502.70	0.00775		
609229.09	4202502.70	0.00855	609244.09
4202502.70	0.00950		
609259.09	4202502.70	0.01063	609274.09
4202502.70	0.01195		
609289.09	4202502.70	0.01343	609304.09
4202502.70	0.01507		
609319.09	4202502.70	0.01680	609334.09
4202502.70	0.01860		
609349.09	4202502.70	0.02039	609364.09

4202502.70	0.02213			
609394.09	4202502.70	0.02515		609409.09
4202502.70	0.02632			
609424.09	4202502.70	0.02724		609439.09
4202502.70	0.02790			
609454.09	4202502.70	0.02824		609469.09
4202502.70	0.02831			
609484.09	4202502.70	0.02823		609499.09
4202502.70	0.02801			
609514.09	4202502.70	0.02764		609529.09
4202502.70	0.02715			
609544.09	4202502.70	0.02656		609559.09
4202502.70	0.02589			
609574.09	4202502.70	0.02516		609589.09
4202502.70	0.02438			
609604.09	4202502.70	0.02356		609619.09
4202502.70	0.02272			
609634.09	4202502.70	0.02187		609649.09
4202502.70	0.02101			
609664.09	4202502.70	0.02013		609064.09
4202517.70	0.00350			
609079.09	4202517.70	0.00372		609094.09
4202517.70	0.00397			
609109.09	4202517.70	0.00424		609124.09
4202517.70	0.00456			
609139.09	4202517.70	0.00490		609154.09
4202517.70	0.00528			
609169.09	4202517.70	0.00570		609184.09
4202517.70	0.00616			
609199.09	4202517.70	0.00669		609214.09
4202517.70	0.00730			

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

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

INCLUDING SOURCE(S):      PAREA2      ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>      IN MICROGRAMS/M\*\*3

\*\*

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

Y-COORD (M)	CONC		
609229.09	4202517.70	0.00803	609244.09
4202517.70	0.00889		
609259.09	4202517.70	0.00990	609274.09
4202517.70	0.01106		
609289.09	4202517.70	0.01235	609304.09
4202517.70	0.01377		
609319.09	4202517.70	0.01526	609334.09
4202517.70	0.01682		
609349.09	4202517.70	0.01837	609364.09
4202517.70	0.01988		
609409.09	4202517.70	0.02362	609424.09
4202517.70	0.02448		
609439.09	4202517.70	0.02512	609454.09
4202517.70	0.02550		
609469.09	4202517.70	0.02563	609484.09
4202517.70	0.02564		
609499.09	4202517.70	0.02553	609514.09
4202517.70	0.02529		
609529.09	4202517.70	0.02494	609544.09
4202517.70	0.02449		
609559.09	4202517.70	0.02397	609574.09
4202517.70	0.02339		
609589.09	4202517.70	0.02276	609604.09
4202517.70	0.02210		
609619.09	4202517.70	0.02140	609634.09
4202517.70	0.02069		
609649.09	4202517.70	0.01996	609079.09
4202532.70	0.00359		
609094.09	4202532.70	0.00382	609109.09
4202532.70	0.00409		
609124.09	4202532.70	0.00439	609139.09
4202532.70	0.00471		
609154.09	4202532.70	0.00505	609169.09
4202532.70	0.00544		
609184.09	4202532.70	0.00586	609199.09
4202532.70	0.00633		
609214.09	4202532.70	0.00689	609229.09
4202532.70	0.00755		
609244.09	4202532.70	0.00833	609259.09
4202532.70	0.00923		
609274.09	4202532.70	0.01026	609289.09
4202532.70	0.01140		
609304.09	4202532.70	0.01264	609319.09
4202532.70	0.01393		
609334.09	4202532.70	0.01529	609349.09
4202532.70	0.01666		
609364.09	4202532.70	0.01797	609409.09

4202532.70	0.02131			
609424.09	4202532.70	0.02211		609439.09
4202532.70	0.02273			
609454.09	4202532.70	0.02312		609469.09
4202532.70	0.02330			
609484.09	4202532.70	0.02338		609499.09
4202532.70	0.02335			
609514.09	4202532.70	0.02320		609529.09
4202532.70	0.02295			
609544.09	4202532.70	0.02262		609559.09
4202532.70	0.02222			
609574.09	4202532.70	0.02176		609589.09
4202532.70	0.02125			
609604.09	4202532.70	0.02071		609619.09
4202532.70	0.02014			
609094.09	4202547.70	0.00370		609109.09
4202547.70	0.00395			
609124.09	4202547.70	0.00422		609139.09
4202547.70	0.00452			
609154.09	4202547.70	0.00484		609169.09
4202547.70	0.00519			
609184.09	4202547.70	0.00557		609199.09
4202547.70	0.00601			
609214.09	4202547.70	0.00652		609229.09
4202547.70	0.00713			
609244.09	4202547.70	0.00784		609259.09
4202547.70	0.00866			
609274.09	4202547.70	0.00957		609289.09
4202547.70	0.01058			
609304.09	4202547.70	0.01167		609319.09
4202547.70	0.01280			
609334.09	4202547.70	0.01398		609349.09
4202547.70	0.01517			

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

\*\*\* THE ANNUAL AVERAGE CONCENTRATION      VALUES AVERAGED OVER      5  
 YEARS FOR SOURCE GROUP: ALL      \*\*\*  
                                  INCLUDING SOURCE(S):      PAREA2      ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>      IN MICROGRAMS/M<sup>3</sup>

\*\*

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
4202547.70	609364.09	4202547.70	0.01632	609409.09
4202547.70	609424.09	4202547.70	0.02006	609439.09
4202547.70	609454.09	4202547.70	0.02105	609469.09
4202547.70	609484.09	4202547.70	0.02139	609499.09
4202547.70	609514.09	4202547.70	0.02134	609529.09
4202547.70	609544.09	4202547.70	0.02093	609559.09
4202547.70	609574.09	4202547.70	0.02026	609589.09
4202562.70	609109.09	4202562.70	0.00381	609124.09
4202562.70	609139.09	4202562.70	0.00434	609154.09
4202562.70	609169.09	4202562.70	0.00495	609184.09
4202562.70	609199.09	4202562.70	0.00571	609214.09
4202562.70	609229.09	4202562.70	0.00675	609244.09
4202562.70	609259.09	4202562.70	0.00814	609274.09
4202562.70	609289.09	4202562.70	0.00986	609304.09
4202562.70	609319.09	4202562.70	0.01181	609334.09
4202562.70	609349.09	4202562.70	0.01387	609364.09
4202562.70	609409.09	4202562.70	0.01758	609424.09
4202562.70	609439.09	4202562.70	0.01884	609454.09
4202562.70	609469.09	4202562.70	0.01948	609484.09
4202562.70	609499.09	4202562.70	0.01970	609514.09
4202562.70	609529.09	4202562.70	0.01957	609544.09
4202562.70	609559.09	4202562.70	0.01917	609574.09
4202577.70	609124.09	4202577.70	0.00392	609139.09



4202577.70	0.00417			
609154.09	4202577.70	0.00443		609169.09
4202577.70	0.00473			
609184.09	4202577.70	0.00506		609199.09
4202577.70	0.00543			
609214.09	4202577.70	0.00588		609229.09
4202577.70	0.00640			
609244.09	4202577.70	0.00699		609259.09
4202577.70	0.00766			
609274.09	4202577.70	0.00841		609289.09
4202577.70	0.00921			
609304.09	4202577.70	0.01006		609319.09
4202577.70	0.01094			
609334.09	4202577.70	0.01184		609349.09
4202577.70	0.01275			
609364.09	4202577.70	0.01366		609409.09
4202577.70	0.01608			
609424.09	4202577.70	0.01673		609439.09
4202577.70	0.01726			
609454.09	4202577.70	0.01765		609469.09
4202577.70	0.01790			
609484.09	4202577.70	0.01808		609499.09
4202577.70	0.01818			
609514.09	4202577.70	0.01819		609529.09
4202577.70	0.01814			
609544.09	4202577.70	0.01802		609139.09
4202592.70	0.00400			
609154.09	4202592.70	0.00424		609169.09
4202592.70	0.00451			
609184.09	4202592.70	0.00482		609199.09
4202592.70	0.00518			
609214.09	4202592.70	0.00560		609229.09
4202592.70	0.00608			
609244.09	4202592.70	0.00662		609259.09
4202592.70	0.00723			

▲ \*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\*      10/28/21  
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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION      VALUES AVERAGED OVER      5  
 YEARS FOR SOURCE GROUP: ALL      \*\*\*  
                                  INCLUDING SOURCE(S):      PAREA2      ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609274.09	4202592.70	0.00790	609289.09
4202592.70	0.00862		
609304.09	4202592.70	0.00938	609319.09
4202592.70	0.01017		
609334.09	4202592.70	0.01097	609349.09
4202592.70	0.01177		
609364.09	4202592.70	0.01257	609409.09
4202592.70	0.01477		
609424.09	4202592.70	0.01537	609439.09
4202592.70	0.01587		
609454.09	4202592.70	0.01625	609469.09
4202592.70	0.01650		
609484.09	4202592.70	0.01670	609499.09
4202592.70	0.01682		
609514.09	4202592.70	0.01686	609529.09
4202592.70	0.01684		
609169.09	4202607.70	0.00432	609184.09
4202607.70	0.00461		
609199.09	4202607.70	0.00495	609214.09
4202607.70	0.00533		
609229.09	4202607.70	0.00578	609244.09
4202607.70	0.00628		
609259.09	4202607.70	0.00684	609274.09
4202607.70	0.00745		
609289.09	4202607.70	0.00809	609304.09
4202607.70	0.00877		
609319.09	4202607.70	0.00947	609334.09
4202607.70	0.01019		
609349.09	4202607.70	0.01091	609364.09
4202607.70	0.01162		
609409.09	4202607.70	0.01362	609424.09
4202607.70	0.01417		
609439.09	4202607.70	0.01464	609454.09
4202607.70	0.01500		
609469.09	4202607.70	0.01526	609484.09
4202607.70	0.01546		
609499.09	4202607.70	0.01560	609199.09
4202622.70	0.00473		
609214.09	4202622.70	0.00509	609229.09
4202622.70	0.00551		
609244.09	4202622.70	0.00597	609259.09
4202622.70	0.00648		
609274.09	4202622.70	0.00703	609289.09

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4202622.70      0.00761
      609304.09    4202622.70      0.00822      609319.09
4202622.70      0.00885
      609334.09    4202622.70      0.00950      609349.09
4202622.70      0.01014
      609364.09    4202622.70      0.01078      609409.09
4202622.70      0.01261
      609424.09    4202622.70      0.01311      609439.09
4202622.70      0.01355
      609454.09    4202622.70      0.01390      609469.09
4202622.70      0.01415

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^ *** AERMOD - VERSION 21112 ***   *** C:\Lakes\AERMOD
View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel ***   10/28/21
*** AERMET - VERSION 14134 ***   ***
***                               ***   12:03:34

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

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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): PAREA2 ,

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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609304.09	4201857.70	0.87822	(12020204)	609319.09
4201857.70	0.85178	(12020204)		
609334.09	4201857.70	0.86209	(12010420)	609349.09
4201857.70	0.88366	(09012323)		
609364.09	4201857.70	0.88041	(09012323)	609379.09
4201857.70	0.84427	(12123104)		
609394.09	4201857.70	0.84792	(09012120)	609259.09
4201872.70	0.93138	(10010720)		
609304.09	4201872.70	0.92410	(12020204)	609319.09
4201872.70	0.89957	(12020204)		
609334.09	4201872.70	0.90705	(12010420)	609349.09
4201872.70	0.93053	(09012323)		
609364.09	4201872.70	0.92386	(09012323)	609379.09
4201872.70	0.88923	(12123104)		
609394.09	4201872.70	0.90039	(09012120)	609409.09
4201872.70	0.91541	(09012120)		
609424.09	4201872.70	0.88653	(10021118)	609439.09

4201872.70	0.89085	(12012619)		
609454.09	4201872.70	0.86818	(09122003)	609199.09
4201887.70	0.90057	(09123119)		
609214.09	4201887.70	0.92001	(10010301)	609229.09
4201887.70	0.93898	(09012222)		
609244.09	4201887.70	0.97365	(09012222)	609259.09
4201887.70	0.97813	(10010720)		
609274.09	4201887.70	0.96627	(10010720)	609304.09
4201887.70	0.97284	(12020204)		
609319.09	4201887.70	0.95130	(12020204)	609334.09
4201887.70	0.95594	(12010420)		
609349.09	4201887.70	0.98140	(09012323)	609364.09
4201887.70	0.97066	(09012323)		
609379.09	4201887.70	0.93730	(12123104)	609394.09
4201887.70	0.95568	(09012120)		
609409.09	4201887.70	0.95961	(09012120)	609424.09
4201887.70	0.92695	(10021118)		
609439.09	4201887.70	0.93482	(12012619)	609454.09
4201887.70	0.91692	(09122003)		
609469.09	4201887.70	0.90469	(12120619)	609484.09
4201887.70	0.89477	(12120619)		
609499.09	4201887.70	0.88277	(10121002)	609169.09
4201902.70	0.91275	(12020820)		
609184.09	4201902.70	0.93121	(09123119)	609199.09
4201902.70	0.95623	(09123119)		
609214.09	4201902.70	0.96949	(10010301)	609229.09
4201902.70	0.96836	(09012222)		
609244.09	4201902.70	1.02365	(09012222)	609259.09
4201902.70	1.02529	(10010720)		
609274.09	4201902.70	1.02730	(10010720)	609319.09
4201902.70	1.00750	(12020204)		
609334.09	4201902.70	1.00920	(12010420)	609349.09
4201902.70	1.03668	(09012323)		
609364.09	4201902.70	1.02118	(09012323)	609379.09
4201902.70	0.98876	(12123104)		
609394.09	4201902.70	1.01432	(09012120)	609409.09
4201902.70	1.00473	(09012120)		
609424.09	4201902.70	0.98508	(12012619)	609439.09
4201902.70	0.97720	(12012619)		
609454.09	4201902.70	0.96325	(09122003)	609469.09
4201902.70	0.95767	(12120619)		
609484.09	4201902.70	0.93360	(10121002)	609499.09
4201902.70	0.91992	(10121002)		
609514.09	4201902.70	0.87609	(10012503)	609529.09
4201902.70	0.87367	(09022304)		
609139.09	4201917.70	0.92033	(10011607)	609154.09
4201917.70	0.94796	(11010301)		
609169.09	4201917.70	0.95366	(12020820)	609184.09
4201917.70	0.97002	(09121706)		
609199.09	4201917.70	1.00539	(09123119)	609214.09

4201917.70	1.01323	(10010301)		
609229.09	4201917.70	1.02133	(10010301)	609244.09
4201917.70	1.07196	(09012222)		
609259.09	4201917.70	1.07906	(09012222)	609274.09
4201917.70	1.09126	(10010720)		
609289.09	4201917.70	1.03168	(10010720)	609319.09
4201917.70	1.06880	(12020204)		
609334.09	4201917.70	1.06739	(12010420)	609349.09
4201917.70	1.09697	(09012323)		
609364.09	4201917.70	1.07588	(09012323)	609379.09
4201917.70	1.04390	(12123104)		
609394.09	4201917.70	1.07683	(09012120)	609409.09
4201917.70	1.05174	(09012120)		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
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 \*\*\* 12:03:34

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREA2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609424.09	4201917.70	1.04672	(12012619)	609439.09
4201917.70	1.02068	(09122003)		
609454.09	4201917.70	1.00665	(09122003)	609469.09
4201917.70	1.00560	(12120619)		
609484.09	4201917.70	0.98768	(10121002)	609499.09
4201917.70	0.95325	(10012503)		
609514.09	4201917.70	0.91911	(09022304)	609529.09
4201917.70	0.91952	(09022304)		
609544.09	4201917.70	0.89082	(11011324)	609109.09
4201932.70	0.90350	(10122508)		
609124.09	4201932.70	0.90838	(09013019)	609139.09
4201932.70	0.95247	(10011607)		
609154.09	4201932.70	0.98384	(11010301)	609169.09
4201932.70	1.00401	(11010301)		
609184.09	4201932.70	1.02052	(12020820)	609199.09

4201932.70	1.04646	(09123119)	
609214.09	4201932.70	1.06656	(09123119) 609229.09
4201932.70	1.08442	(10010301)	
609244.09	4201932.70	1.11578	(09012222) 609259.09
4201932.70	1.14808	(09012222)	
609274.09	4201932.70	1.15813	(10010720) 609289.09
4201932.70	1.10999	(10010720)	
609334.09	4201932.70	1.13123	(12010420) 609349.09
4201932.70	1.16290	(09012323)	
609364.09	4201932.70	1.13511	(09012323) 609379.09
4201932.70	1.10306	(12123104)	
609394.09	4201932.70	1.14282	(09012120) 609409.09
4201932.70	1.10764	(10021118)	
609424.09	4201932.70	1.10924	(12012619) 609439.09
4201932.70	1.08551	(09122003)	
609454.09	4201932.70	1.07361	(12120619) 609469.09
4201932.70	1.04674	(12120619)	
609484.09	4201932.70	1.03374	(10121002) 609499.09
4201932.70	0.98098	(10012503)	
609514.09	4201932.70	0.98124	(09022304) 609529.09
4201932.70	0.95880	(11011324)	
609544.09	4201932.70	0.91944	(09120624) 609559.09
4201932.70	0.88887	(10011219)	
609079.09	4201947.70	0.88507	(10010802) 609094.09
4201947.70	0.92207	(10121905)	
609109.09	4201947.70	0.93195	(12021405) 609124.09
4201947.70	0.96074	(10122508)	
609139.09	4201947.70	0.97682	(09121818) 609154.09
4201947.70	1.02722	(10011607)	
609169.09	4201947.70	1.06238	(11010301) 609184.09
4201947.70	1.07077	(12020820)	
609199.09	4201947.70	1.09041	(09121706) 609214.09
4201947.70	1.13187	(09123119)	
609229.09	4201947.70	1.14628	(10010301) 609244.09
4201947.70	1.15735	(09012222)	
609259.09	4201947.70	1.21600	(09012222) 609274.09
4201947.70	1.22618	(10010720)	
609289.09	4201947.70	1.19388	(10010720) 609304.09
4201947.70	1.20816	(12020204)	
609334.09	4201947.70	1.20139	(12010420) 609349.09
4201947.70	1.23509	(09012323)	
609364.09	4201947.70	1.19925	(09012323) 609379.09
4201947.70	1.18272	(09012120)	
609394.09	4201947.70	1.21158	(09012120) 609409.09
4201947.70	1.16927	(10021118)	
609424.09	4201947.70	1.17078	(12012619) 609439.09
4201947.70	1.14690	(09122003)	
609454.09	4201947.70	1.13788	(12120619) 609469.09
4201947.70	1.11368	(10121002)	
609484.09	4201947.70	1.07444	(10012503) 609499.09

4201947.70	1.04086	(09022304)		
609514.09	4201947.70	1.03073	(09022304)	609529.09
4201947.70	0.98903	(11011324)		
609544.09	4201947.70	0.94625	(09120624)	609559.09
4201947.70	0.94519	(10011219)		
609574.09	4201947.70	0.90930	(10011219)	609064.09
4201962.70	0.89431	(10120519)		
609079.09	4201962.70	0.92346	(10020602)	609094.09
4201962.70	0.94448	(10121905)		
609109.09	4201962.70	0.97979	(10121905)	609124.09
4201962.70	1.00145	(10122508)		
609139.09	4201962.70	1.02583	(10122508)	609154.09
4201962.70	1.06283	(10011607)		
609169.09	4201962.70	1.10595	(10011607)	609184.09
4201962.70	1.13807	(11010301)		

\*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): PAREA2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609199.09	4201962.70	1.15526	(12020820)	609214.09
4201962.70	1.19043	(09123119)		
609229.09	4201962.70	1.20376	(10010301)	609244.09
4201962.70	1.22158	(10010301)		
609259.09	4201962.70	1.28303	(09012222)	609274.09
4201962.70	1.29577	(10010720)		
609289.09	4201962.70	1.28405	(10010720)	609304.09
4201962.70	1.27972	(12020204)		
609349.09	4201962.70	1.31446	(09012323)	609364.09
4201962.70	1.26923	(09012323)		
609379.09	4201962.70	1.27123	(09012120)	609394.09
4201962.70	1.28371	(09012120)		
609409.09	4201962.70	1.25521	(12012619)	609424.09

4201962.70	1.23032	(12012619)		
609439.09	4201962.70	1.21180	(12120619)	609454.09
4201962.70	1.19518	(12120619)		
609469.09	4201962.70	1.17315	(10121002)	609484.09
4201962.70	1.10940	(10012503)		
609499.09	4201962.70	1.11101	(09022304)	609514.09
4201962.70	1.07654	(11011324)		
609529.09	4201962.70	1.02794	(09120624)	609544.09
4201962.70	1.01226	(10011219)		
609559.09	4201962.70	0.98127	(10011219)	609574.09
4201962.70	0.93677	(11123024)		
609589.09	4201962.70	0.91290	(11123024)	609604.09
4201962.70	0.87235	(09010206)		
609049.09	4201977.70	0.89076	(09020508)	609064.09
4201977.70	0.91340	(10120519)		
609079.09	4201977.70	0.95390	(10120519)	609094.09
4201977.70	0.98512	(10020602)		
609109.09	4201977.70	1.01248	(10121905)	609124.09
4201977.70	1.05152	(10121905)		
609139.09	4201977.70	1.08459	(10122508)	609154.09
4201977.70	1.09881	(09013019)		
609169.09	4201977.70	1.15996	(10011607)	609184.09
4201977.70	1.20334	(11010301)		
609199.09	4201977.70	1.21751	(12020820)	609214.09
4201977.70	1.24206	(09121706)		
609229.09	4201977.70	1.28946	(09123119)	609244.09
4201977.70	1.30822	(10010301)		
609259.09	4201977.70	1.35122	(09012222)	609274.09
4201977.70	1.36962	(09012222)		
609289.09	4201977.70	1.37873	(10010720)	609304.09
4201977.70	1.35608	(12020204)		
609319.09	4201977.70	1.37914	(12020204)	609349.09
4201977.70	1.40219	(09012323)		
609364.09	4201977.70	1.34581	(09012323)	609379.09
4201977.70	1.36750	(09012120)		
609394.09	4201977.70	1.35931	(09012120)	609409.09
4201977.70	1.34369	(12012619)		
609424.09	4201977.70	1.31385	(09122003)	609439.09
4201977.70	1.29990	(12120619)		
609454.09	4201977.70	1.27039	(10121002)	609469.09
4201977.70	1.22570	(10012503)		
609484.09	4201977.70	1.19174	(09022304)	609499.09
4201977.70	1.16921	(11011324)		
609514.09	4201977.70	1.11692	(09120624)	609529.09
4201977.70	1.08600	(10011219)		
609544.09	4201977.70	1.06224	(10011219)	609559.09
4201977.70	1.00557	(11123024)		
609574.09	4201977.70	0.98261	(11123024)	609589.09
4201977.70	0.93706	(09010206)		
609604.09	4201977.70	0.87743	(13022722)	609619.09



4201977.70	0.86831	(13012505)		
609049.09	4201992.70	0.91363	(10020603)	609064.09
4201992.70	0.94729	(09020508)		
609079.09	4201992.70	0.97480	(10120519)	609094.09
4201992.70	1.02002	(10121405)		
609109.09	4201992.70	1.05600	(10020602)	609124.09
4201992.70	1.09708	(10121905)		
609139.09	4201992.70	1.13559	(10121905)	609154.09
4201992.70	1.17369	(10122508)		
609169.09	4201992.70	1.19560	(09121818)	609184.09
4201992.70	1.25892	(10011607)		
609199.09	4201992.70	1.30244	(11010301)	609214.09
4201992.70	1.32412	(12020820)		
609229.09	4201992.70	1.36991	(09123119)	609244.09
4201992.70	1.39160	(10010301)		
609259.09	4201992.70	1.41790	(09012222)	609274.09
4201992.70	1.46986	(09012222)		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
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 \*\*\* 12:03:34

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREA2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609289.09	4201992.70	1.47803	(10010720)	609304.09
4201992.70	1.43824	(12020204)		
609319.09	4201992.70	1.47783	(12020204)	609364.09
4201992.70	1.43638	(12123104)		
609379.09	4201992.70	1.47160	(09012120)	609394.09
4201992.70	1.43878	(10021118)		
609409.09	4201992.70	1.43356	(12012619)	609424.09
4201992.70	1.39856	(09122003)		
609439.09	4201992.70	1.38210	(12120619)	609454.09
4201992.70	1.35020	(10121002)		
609469.09	4201992.70	1.27189	(10012503)	609484.09

4201992.70	1.27266	(09022304)		
609499.09	4201992.70	1.21867	(11011324)	609514.09
4201992.70	1.16620	(10011219)		
609529.09	4201992.70	1.15267	(10011219)	609544.09
4201992.70	1.08362	(10011219)		
609559.09	4201992.70	1.06145	(11123024)	609574.09
4201992.70	1.01099	(09010206)		
609589.09	4201992.70	0.94407	(13022722)	609604.09
4201992.70	0.93482	(13012505)		
609619.09	4201992.70	0.91287	(13012505)	609634.09
4201992.70	0.86730	(13012505)		
609034.09	4202007.70	0.90254	(10011203)	609049.09
4202007.70	0.94051	(10011708)		
609064.09	4202007.70	0.97700	(10020603)	609079.09
4202007.70	1.01631	(09020508)		
609094.09	4202007.70	1.04833	(09123118)	609109.09
4202007.70	1.09909	(10121405)		
609124.09	4202007.70	1.14369	(10020602)	609139.09
4202007.70	1.19602	(10121905)		
609154.09	4202007.70	1.22578	(10121905)	609169.09
4202007.70	1.26882	(10122508)		
609184.09	4202007.70	1.31584	(10011607)	609199.09
4202007.70	1.37940	(11010301)		
609214.09	4202007.70	1.40326	(12020820)	609229.09
4202007.70	1.43864	(09123119)		
609244.09	4202007.70	1.48436	(09123119)	609259.09
4202007.70	1.50192	(10010301)		
609274.09	4202007.70	1.57478	(09012222)	609289.09
4202007.70	1.58696	(10010720)		
609304.09	4202007.70	1.53040	(12020204)	609319.09
4202007.70	1.58820	(12020204)		
609334.09	4202007.70	1.57021	(12010420)	609379.09
4202007.70	1.58392	(09012120)		
609394.09	4202007.70	1.53713	(10021118)	609409.09
4202007.70	1.52378	(12012619)		
609424.09	4202007.70	1.49980	(12120619)	609439.09
4202007.70	1.46820	(10121002)		
609454.09	4202007.70	1.41753	(10012503)	609469.09
4202007.70	1.38103	(09022304)		
609484.09	4202007.70	1.34136	(11011324)	609499.09
4202007.70	1.27131	(09120624)		
609514.09	4202007.70	1.25286	(10011219)	609529.09
4202007.70	1.18681	(10011219)		
609544.09	4202007.70	1.15062	(11123024)	609559.09
4202007.70	1.09467	(09010206)		
609574.09	4202007.70	1.01959	(13022722)	609589.09
4202007.70	1.00994	(13012505)		
609604.09	4202007.70	0.98038	(13012505)	609619.09
4202007.70	0.92471	(13012505)		
609634.09	4202007.70	0.88431	(09122007)	609649.09

4202007.70	0.86554	(09122007)		
609034.09	4202022.70	0.93607	(10011203)	609049.09
4202022.70	0.96672	(10011203)		
609064.09	4202022.70	1.00508	(10011708)	609079.09
4202022.70	1.05106	(10020603)		
609094.09	4202022.70	1.09454	(09020508)	609109.09
4202022.70	1.13334	(09123118)		
609124.09	4202022.70	1.19445	(10121405)	609139.09
4202022.70	1.24653	(10020602)		
609154.09	4202022.70	1.30457	(10121905)	609169.09
4202022.70	1.33923	(10122508)		
609184.09	4202022.70	1.37733	(10122508)	609199.09
4202022.70	1.45697	(10011607)		
609214.09	4202022.70	1.51289	(11010301)	609229.09
4202022.70	1.53960	(12020820)		
609244.09	4202022.70	1.59654	(09123119)	609259.09
4202022.70	1.62261	(10010301)		
609274.09	4202022.70	1.68222	(09012222)	609289.09
4202022.70	1.70389	(10010720)		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREA2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

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\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609304.09	4202022.70	1.65690	(10010720)	609319.09
4202022.70	1.71166	(12020204)		
609334.09	4202022.70	1.69248	(12010420)	609349.09
4202022.70	1.73032	(09012323)		
609379.09	4202022.70	1.70510	(09012120)	609394.09
4202022.70	1.66775	(12012619)		
609409.09	4202022.70	1.63482	(09122003)	609424.09
4202022.70	1.61613	(12120619)		
609439.09	4202022.70	1.57445	(10121002)	609454.09

4202022.70	1.48685	(09022304)		
609469.09	4202022.70	1.47250	(09022304)	609484.09
4202022.70	1.40040	(09120624)		
609499.09	4202022.70	1.36479	(10011219)	609514.09
4202022.70	1.30456	(10011219)		
609529.09	4202022.70	1.25301	(11123024)	609544.09
4202022.70	1.19061	(09010206)		
609559.09	4202022.70	1.10603	(13022722)	609574.09
4202022.70	1.09523	(13012505)		
609589.09	4202022.70	1.05616	(13012505)	609604.09
4202022.70	0.98800	(13012505)		
609619.09	4202022.70	0.95750	(09122007)	609634.09
4202022.70	0.92786	(09122007)		
609649.09	4202022.70	0.89294	(10120324)	609664.09
4202022.70	0.84372	(10120324)		
609019.09	4202037.70	0.99561	(10011620)	609034.09
4202037.70	0.98023	(10011620)		
609049.09	4202037.70	0.99350	(10011203)	609064.09
4202037.70	1.04235	(10011203)		
609079.09	4202037.70	1.08163	(10011708)	609094.09
4202037.70	1.13828	(10020603)		
609109.09	4202037.70	1.18834	(09020508)	609124.09
4202037.70	1.23866	(09123118)		
609139.09	4202037.70	1.30793	(10121405)	609154.09
4202037.70	1.36298	(10020602)		
609169.09	4202037.70	1.43167	(10121905)	609184.09
4202037.70	1.48085	(10122508)		
609199.09	4202037.70	1.52350	(09121818)	609214.09
4202037.70	1.60294	(11010301)		
609229.09	4202037.70	1.64230	(12020820)	609244.09
4202037.70	1.69739	(09123119)		
609259.09	4202037.70	1.73990	(10010301)	609274.09
4202037.70	1.79041	(09012222)		
609289.09	4202037.70	1.82818	(10010720)	609304.09
4202037.70	1.81364	(10010720)		
609319.09	4202037.70	1.85035	(12020204)	609334.09
4202037.70	1.83122	(12010420)		
609349.09	4202037.70	1.86784	(09012323)	609394.09
4202037.70	1.80613	(12012619)		
609409.09	4202037.70	1.75819	(09122003)	609424.09
4202037.70	1.72321	(12120619)		
609439.09	4202037.70	1.66577	(10012503)	609454.09
4202037.70	1.62252	(09022304)		
609469.09	4202037.70	1.55377	(11011324)	609484.09
4202037.70	1.49007	(10011219)		
609499.09	4202037.70	1.43999	(10011219)	609514.09
4202037.70	1.37088	(11123024)		
609529.09	4202037.70	1.30153	(09010206)	609544.09
4202037.70	1.20565	(13022722)		
609559.09	4202037.70	1.19282	(13012505)	609574.09

4202037.70	1.14167	(13012505)		
609589.09	4202037.70	1.05791	(13012505)	609604.09
4202037.70	1.03814	(09122007)		
609619.09	4202037.70	0.99987	(10120324)	609634.09
4202037.70	0.95231	(10120324)		
609649.09	4202037.70	0.90509	(12022704)	609664.09
4202037.70	0.86867	(12022704)		
609679.09	4202037.70	0.82390	(12123118)	609019.09
4202052.70	1.06176	(10020504)		
609034.09	4202052.70	1.08311	(10011620)	609049.09
4202052.70	1.08231	(10011620)		
609064.09	4202052.70	1.07147	(10011622)	609079.09
4202052.70	1.13112	(10011203)		
609094.09	4202052.70	1.17297	(10011203)	609109.09
4202052.70	1.23884	(10011708)		
609124.09	4202052.70	1.29737	(09020508)	609139.09
4202052.70	1.35809	(09123118)		
609154.09	4202052.70	1.43802	(10121405)	609169.09
4202052.70	1.50351	(10020602)		
609184.09	4202052.70	1.58287	(10121905)	609199.09
4202052.70	1.63839	(10122508)		

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREA2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609214.09	4202052.70	1.70287	(10011607)	609229.09
4202052.70	1.78326	(11010301)		
609244.09	4202052.70	1.82143	(12020820)	609259.09
4202052.70	1.88848	(09123119)		
609274.09	4202052.70	1.90790	(10010301)	609289.09
4202052.70	1.98559	(09012222)		
609304.09	4202052.70	1.98592	(10010720)	609319.09

4202052.70	2.00694	(12020204)		
609334.09	4202052.70	1.98946	(12010420)	609349.09
4202052.70	2.02363	(09012323)		
609364.09	4202052.70	1.97577	(09012120)	609394.09
4202052.70	1.94996	(12012619)		
609409.09	4202052.70	1.91485	(12120619)	609424.09
4202052.70	1.86971	(10121002)		
609439.09	4202052.70	1.77459	(09022304)	609454.09
4202052.70	1.73633	(11011324)		
609469.09	4202052.70	1.63093	(09120624)	609484.09
4202052.70	1.59643	(10011219)		
609499.09	4202052.70	1.50851	(11123024)	609514.09
4202052.70	1.43152	(09010206)		
609529.09	4202052.70	1.32382	(13012505)	609544.09
4202052.70	1.30532	(13012505)		
609559.09	4202052.70	1.23833	(13012505)	609574.09
4202052.70	1.16000	(09122007)		
609589.09	4202052.70	1.12679	(09122007)	609604.09
4202052.70	1.07871	(10120324)		
609619.09	4202052.70	1.01370	(10120324)	609634.09
4202052.70	0.97359	(12022704)		
609649.09	4202052.70	0.92194	(12022704)	609664.09
4202052.70	0.87910	(10121903)		
609679.09	4202052.70	0.83099	(10121903)	609694.09
4202052.70	0.77633	(10121903)		
609004.09	4202067.70	1.07979	(10020504)	609019.09
4202067.70	1.12860	(10020504)		
609034.09	4202067.70	1.16028	(10020504)	609049.09
4202067.70	1.17351	(10011620)		
609064.09	4202067.70	1.20055	(10011620)	609079.09
4202067.70	1.20148	(10011620)		
609094.09	4202067.70	1.22350	(10011203)	609109.09
4202067.70	1.28485	(10011203)		
609124.09	4202067.70	1.35381	(10011708)	609139.09
4202067.70	1.42481	(10020603)		
609154.09	4202067.70	1.50155	(09123118)	609169.09
4202067.70	1.59462	(10121405)		
609184.09	4202067.70	1.66329	(10020602)	609199.09
4202067.70	1.75028	(10121905)		
609214.09	4202067.70	1.81326	(10122508)	609229.09
4202067.70	1.91282	(10011607)		
609244.09	4202067.70	1.97322	(11010301)	609259.09
4202067.70	2.04918	(09123119)		
609274.09	4202067.70	2.09617	(10010301)	609289.09
4202067.70	2.17073	(09012222)		
609304.09	4202067.70	2.18253	(10010720)	609319.09
4202067.70	2.18600	(12020204)		
609334.09	4202067.70	2.17119	(12010420)	609349.09
4202067.70	2.20128	(09012323)		
609364.09	4202067.70	2.17151	(09012120)	609409.09

4202067.70	2.07873	(12120619)		
609424.09	4202067.70	1.99997	(10121002)	609439.09
4202067.70	1.94168	(09022304)		
609454.09	4202067.70	1.83462	(09120624)	609469.09
4202067.70	1.77954	(10011219)		
609484.09	4202067.70	1.67193	(11123024)	609499.09
4202067.70	1.58623	(09010206)		
609514.09	4202067.70	1.46796	(13012505)	609529.09
4202067.70	1.43665	(13012505)		
609544.09	4202067.70	1.34895	(13012505)	609559.09
4202067.70	1.27762	(09122007)		
609574.09	4202067.70	1.22699	(10120324)	609589.09
4202067.70	1.16305	(10120324)		
609604.09	4202067.70	1.09898	(12022704)	609619.09
4202067.70	1.04352	(12022704)		
609634.09	4202067.70	0.98755	(10121903)	609649.09
4202067.70	0.93281	(10121903)		
609664.09	4202067.70	0.86957	(10121903)	609679.09
4202067.70	0.81724	(11011122)		
609694.09	4202067.70	0.78213	(11011122)	609709.09
4202067.70	0.74184	(11011122)		
609004.09	4202082.70	1.06182	(10021222)	609019.09
4202082.70	1.12670	(10020504)		

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREA2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609034.09	4202082.70	1.20089	(10020504)	609049.09
4202082.70	1.26036	(10020504)		
609064.09	4202082.70	1.29973	(10020504)	609079.09
4202082.70	1.32300	(10011620)		
609094.09	4202082.70	1.34601	(10011620)	609109.09

4202082.70	1.33233	(10011620)		
609124.09	4202082.70	1.41249	(10011203)	609139.09
4202082.70	1.49052	(10011708)		
609154.09	4202082.70	1.58215	(10020603)	609169.09
4202082.70	1.66839	(09020508)		
609184.09	4202082.70	1.77358	(10121405)	609199.09
4202082.70	1.86095	(10121905)		
609214.09	4202082.70	1.95232	(10122508)	609229.09
4202082.70	2.04418	(09121818)		
609244.09	4202082.70	2.16726	(11010301)	609259.09
4202082.70	2.22546	(12020820)		
609274.09	4202082.70	2.29731	(09123119)	609289.09
4202082.70	2.37321	(09012222)		
609304.09	4202082.70	2.40359	(10010720)	609319.09
4202082.70	2.39185	(12020204)		
609334.09	4202082.70	2.38147	(12010420)	609349.09
4202082.70	2.40568	(09012323)		
609364.09	4202082.70	2.39107	(09012120)	609409.09
4202082.70	2.26849	(10121002)		
609424.09	4202082.70	2.16367	(09022304)	609439.09
4202082.70	2.08549	(11011324)		
609454.09	4202082.70	1.99324	(10011219)	609469.09
4202082.70	1.86671	(11123024)		
609484.09	4202082.70	1.77140	(09010206)	609499.09
4202082.70	1.64007	(13012505)		
609514.09	4202082.70	1.59055	(13012505)	609529.09
4202082.70	1.47582	(13012505)		
609544.09	4202082.70	1.41023	(09122007)	609559.09
4202082.70	1.34231	(10120324)		
609574.09	4202082.70	1.25200	(10120324)	609589.09
4202082.70	1.19190	(12022704)		
609604.09	4202082.70	1.11988	(10121903)	609619.09
4202082.70	1.05682	(10121903)		
609634.09	4202082.70	0.98288	(10121903)	609649.09
4202082.70	0.91651	(11011122)		
609664.09	4202082.70	0.87308	(11011122)	609679.09
4202082.70	0.82412	(11011122)		
609694.09	4202082.70	0.78337	(12121308)	609709.09
4202082.70	0.75731	(12121308)		
609004.09	4202097.70	1.07424	(10021223)	609019.09
4202097.70	1.12195	(10021222)		
609034.09	4202097.70	1.18413	(10021222)	609049.09
4202097.70	1.26709	(10020504)		
609064.09	4202097.70	1.35758	(10020504)	609079.09
4202097.70	1.42905	(10020504)		
609094.09	4202097.70	1.47463	(10020504)	609109.09
4202097.70	1.50433	(10011620)		
609124.09	4202097.70	1.52560	(10011620)	609139.09
4202097.70	1.55915	(10011203)		
609154.09	4202097.70	1.64167	(10011708)	609169.09



4202097.70	1.75835	(10020603)		
609184.09	4202097.70	1.86680	(09020508)	609199.09
4202097.70	1.99573	(10121405)		
609214.09	4202097.70	2.11760	(10121905)	609229.09
4202097.70	2.22825	(10122508)		
609244.09	4202097.70	2.34373	(10011607)	609259.09
4202097.70	2.44000	(11010301)		
609274.09	4202097.70	2.54031	(09123119)	609289.09
4202097.70	2.58235	(09012222)		
609304.09	4202097.70	2.64521	(10010720)	609319.09
4202097.70	2.62931	(12020204)		
609334.09	4202097.70	2.62671	(12010420)	609349.09
4202097.70	2.64318	(09012323)		
609364.09	4202097.70	2.63976	(09012120)	609409.09
4202097.70	2.47042	(10121002)		
609424.09	4202097.70	2.37974	(09022304)	609439.09
4202097.70	2.24400	(10011219)		
609454.09	4202097.70	2.12797	(10011219)	609469.09
4202097.70	1.99660	(09010206)		
609484.09	4202097.70	1.84791	(13012505)	609499.09
4202097.70	1.77229	(13012505)		
609514.09	4202097.70	1.62797	(09122007)	609529.09
4202097.70	1.55940	(09122007)		
609544.09	4202097.70	1.46787	(10120324)	609559.09
4202097.70	1.37519	(12022704)		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREA2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609574.09	4202097.70	1.28721	(12123118)	609589.09
4202097.70	1.21066	(10121903)		
609604.09	4202097.70	1.12260	(10121903)	609619.09

4202097.70	1.03811	(11011122)		
609634.09	4202097.70	0.98375	(11011122)	609649.09
4202097.70	0.92282	(11011122)		
609664.09	4202097.70	0.88071	(12121308)	609679.09
4202097.70	0.84560	(12121308)		
609694.09	4202097.70	0.81315	(11011323)	609709.09
4202097.70	0.78451	(11011323)		
609724.09	4202097.70	0.75279	(11011323)	608989.09
4202112.70	1.05110	(13012320)		
609004.09	4202112.70	1.10573	(10122201)	609019.09
4202112.70	1.15607	(10122201)		
609034.09	4202112.70	1.20762	(10021223)	609049.09
4202112.70	1.25905	(10021222)		
609064.09	4202112.70	1.33980	(10021222)	609079.09
4202112.70	1.44235	(10020504)		
609094.09	4202112.70	1.55267	(10020504)	609109.09
4202112.70	1.63985	(10020504)		
609124.09	4202112.70	1.69508	(10020504)	609139.09
4202112.70	1.73345	(10011620)		
609154.09	4202112.70	1.74430	(10011620)	609169.09
4202112.70	1.83923	(10011203)		
609184.09	4202112.70	1.97293	(10020603)	609199.09
4202112.70	2.11970	(09020508)		
609214.09	4202112.70	2.27813	(10121405)	609229.09
4202112.70	2.43014	(10121905)		
609244.09	4202112.70	2.54800	(10122508)	609259.09
4202112.70	2.69559	(11010301)		
609274.09	4202112.70	2.78760	(13121217)	609289.09
4202112.70	2.86818	(10010301)		
609304.09	4202112.70	2.92901	(09012222)	609319.09
4202112.70	2.90870	(12020204)		
609334.09	4202112.70	2.91582	(12010420)	609349.09
4202112.70	2.92311	(09012323)		
609364.09	4202112.70	2.92627	(09012120)	609379.09
4202112.70	2.88255	(12012619)		
609409.09	4202112.70	2.71931	(09022304)	609424.09
4202112.70	2.57110	(09120624)		
609439.09	4202112.70	2.45428	(10011219)	609454.09
4202112.70	2.28079	(11123024)		
609469.09	4202112.70	2.10398	(13012505)	609484.09
4202112.70	1.99076	(13012505)		
609499.09	4202112.70	1.83931	(09122007)	609514.09
4202112.70	1.73767	(10120324)		
609529.09	4202112.70	1.60623	(12022704)	609544.09
4202112.70	1.50640	(12022704)		
609559.09	4202112.70	1.40512	(10121903)	609574.09
4202112.70	1.29847	(10121903)		
609589.09	4202112.70	1.19002	(11011122)	609604.09
4202112.70	1.12052	(11011122)		
609619.09	4202112.70	1.04350	(11011122)	609634.09

4202112.70	0.99862	(12121308)		
609649.09	4202112.70	0.95394	(12022118)	609664.09
4202112.70	0.91659	(11011323)		
609679.09	4202112.70	0.87692	(11011323)	609694.09
4202112.70	0.83442	(11011323)		
609709.09	4202112.70	0.79191	(12013024)	609724.09
4202112.70	0.75887	(12013024)		
608989.09	4202127.70	1.07164	(10020824)	609004.09
4202127.70	1.12172	(13012320)		
609019.09	4202127.70	1.17754	(13012320)	609034.09
4202127.70	1.23209	(10122201)		
609049.09	4202127.70	1.30277	(10122201)	609064.09
4202127.70	1.36686	(10021223)		
609079.09	4202127.70	1.43249	(10021223)	609094.09
4202127.70	1.52707	(10021222)		
609109.09	4202127.70	1.65689	(10020504)	609124.09
4202127.70	1.79380	(10020504)		
609139.09	4202127.70	1.90290	(10020504)	609154.09
4202127.70	1.97417	(10020504)		
609169.09	4202127.70	2.02295	(10011620)	609184.09
4202127.70	2.08182	(10011203)		
609199.09	4202127.70	2.24374	(10011708)	609214.09
4202127.70	2.42645	(09020508)		
609229.09	4202127.70	2.62434	(10121405)	609244.09
4202127.70	2.81529	(10121905)		
609259.09	4202127.70	2.96507	(09121818)	609274.09
4202127.70	3.11384	(12020820)		

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREA2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
-----	-----	-----	-----	-----
609289.09	4202127.70	3.22130	(09123119)	609304.09

4202127.70	3.27886	(09012222)		
609319.09	4202127.70	3.24477	(12020204)	609334.09
4202127.70	3.26212	(12010420)		
609349.09	4202127.70	3.25908	(09012323)	609364.09
4202127.70	3.27094	(10021118)		
609379.09	4202127.70	3.22228	(12120619)	609409.09
4202127.70	3.03397	(11011324)		
609424.09	4202127.70	2.86518	(10011219)	609439.09
4202127.70	2.64455	(11123024)		
609454.09	4202127.70	2.42706	(13012505)	609469.09
4202127.70	2.25697	(13012505)		
609484.09	4202127.70	2.08817	(09122007)	609499.09
4202127.70	1.93923	(10120324)		
609514.09	4202127.70	1.79190	(12022704)	609529.09
4202127.70	1.65734	(10121903)		
609544.09	4202127.70	1.52489	(10121903)	609559.09
4202127.70	1.38401	(11011122)		
609574.09	4202127.70	1.29266	(11011122)	609589.09
4202127.70	1.20216	(12121308)		
609604.09	4202127.70	1.14335	(12022118)	609619.09
4202127.70	1.09127	(11011323)		
609634.09	4202127.70	1.04002	(11011323)	609649.09
4202127.70	0.98508	(11011323)		
609664.09	4202127.70	0.92908	(12013024)	609679.09
4202127.70	0.88546	(12013024)		
609694.09	4202127.70	0.84404	(10121022)	609709.09
4202127.70	0.81009	(10121022)		
609724.09	4202127.70	0.77514	(10121022)	608974.09
4202142.70	1.03802	(09123103)		
608989.09	4202142.70	1.08592	(09123103)	609004.09
4202142.70	1.13371	(10122106)		
609019.09	4202142.70	1.18949	(13010602)	609034.09
4202142.70	1.25281	(10020824)		
609049.09	4202142.70	1.32079	(13012320)	609064.09
4202142.70	1.39578	(13012320)		
609079.09	4202142.70	1.47463	(10122201)	609094.09
4202142.70	1.56407	(10122201)		
609109.09	4202142.70	1.65231	(10021223)	609124.09
4202142.70	1.75952	(10021222)		
609139.09	4202142.70	1.92888	(10020504)	609154.09
4202142.70	2.11072	(10020504)		
609169.09	4202142.70	2.26417	(10020504)	609184.09
4202142.70	2.36363	(10020504)		
609199.09	4202142.70	2.42194	(10011620)	609214.09
4202142.70	2.56685	(10011708)		
609229.09	4202142.70	2.81277	(09020508)	609244.09
4202142.70	3.07803	(10121405)		
609259.09	4202142.70	3.31412	(10121905)	609274.09
4202142.70	3.52052	(13122901)		
609289.09	4202142.70	3.65935	(09123119)	609304.09

4202142.70	3.69664	(09012222)		
609319.09	4202142.70	3.68242	(12123120)	609334.09
4202142.70	3.69055	(13022419)		
609349.09	4202142.70	3.67180	(09012323)	609364.09
4202142.70	3.70951	(10021118)		
609379.09	4202142.70	3.68646	(12120619)	609409.09
4202142.70	3.39285	(10011219)		
609424.09	4202142.70	3.12778	(11123024)	609439.09
4202142.70	2.84735	(13012505)		
609454.09	4202142.70	2.58725	(13012505)	609469.09
4202142.70	2.39049	(10120324)		
609484.09	4202142.70	2.17691	(12022704)	609499.09
4202142.70	1.99592	(10121903)		
609514.09	4202142.70	1.82498	(10121903)	609529.09
4202142.70	1.63864	(11011122)		
609544.09	4202142.70	1.51461	(11011122)	609559.09
4202142.70	1.40846	(12121308)		
609574.09	4202142.70	1.33131	(12022118)	609589.09
4202142.70	1.26180	(11011323)		
609604.09	4202142.70	1.18816	(11011323)	609619.09
4202142.70	1.11225	(11011323)		
609634.09	4202142.70	1.05258	(12013024)	609649.09
4202142.70	0.99999	(10121022)		
609664.09	4202142.70	0.95264	(10121022)	609679.09
4202142.70	0.90467	(10121022)		
609694.09	4202142.70	0.85696	(10121022)	609709.09
4202142.70	0.81405	(13012506)		
609724.09	4202142.70	0.77299	(13012506)	608974.09
4202157.70	1.04979	(12012005)		

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREA2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

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

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608989.09	4202157.70	1.10163	(12012005)	609004.09
4202157.70	1.15364	(10010205)		
609019.09	4202157.70	1.20963	(10010205)	609034.09
4202157.70	1.27023	(09123103)		
609049.09	4202157.70	1.33618	(09123103)	609064.09
4202157.70	1.40946	(13010602)		
609079.09	4202157.70	1.49584	(12120523)	609094.09
4202157.70	1.58947	(12120523)		
609109.09	4202157.70	1.69187	(13012320)	609124.09
4202157.70	1.80548	(10122201)		
609139.09	4202157.70	1.92531	(10021223)	609154.09
4202157.70	2.06426	(10021222)		
609169.09	4202157.70	2.30517	(10020504)	609184.09
4202157.70	2.54710	(10020504)		
609199.09	4202157.70	2.75447	(10020504)	609214.09
4202157.70	2.90543	(10020504)		
609229.09	4202157.70	3.00349	(10011203)	609244.09
4202157.70	3.33004	(10020603)		
609259.09	4202157.70	3.70621	(10121405)	609274.09
4202157.70	4.02352	(11020623)		
609289.09	4202157.70	4.22539	(12020820)	609304.09
4202157.70	4.24529	(13122120)		
609319.09	4202157.70	4.24294	(12123120)	609334.09
4202157.70	4.23087	(13022419)		
609349.09	4202157.70	4.19710	(10021118)	609364.09
4202157.70	4.26153	(10021118)		
609379.09	4202157.70	4.26508	(10121002)	609409.09
4202157.70	3.77275	(11123024)		
609424.09	4202157.70	3.39933	(13012505)	609439.09
4202157.70	3.04405	(09122007)		
609454.09	4202157.70	2.75277	(10120324)	609469.09
4202157.70	2.47924	(12123118)		
609484.09	4202157.70	2.23856	(10121903)	609499.09
4202157.70	1.98597	(10121903)		
609514.09	4202157.70	1.80856	(11011122)	609529.09
4202157.70	1.68331	(12022118)		
609544.09	4202157.70	1.57712	(11011323)	609559.09
4202157.70	1.47307	(11011323)		
609574.09	4202157.70	1.36701	(11011323)	609589.09
4202157.70	1.28081	(12013024)		
609604.09	4202157.70	1.21036	(10121022)	609619.09
4202157.70	1.14191	(10121022)		
609634.09	4202157.70	1.07397	(10121022)	609649.09
4202157.70	1.01062	(13012506)		
609664.09	4202157.70	0.95244	(13012506)	609679.09
4202157.70	0.89622	(13012506)		
609694.09	4202157.70	0.85550	(09010202)	609709.09
4202157.70	0.81674	(09010202)		
609724.09	4202157.70	0.77906	(09010202)	608959.09

4202172.70	1.01362	(12012524)		
608974.09	4202172.70	1.06084	(12012524)	608989.09
4202172.70	1.10919	(12012524)		
609004.09	4202172.70	1.16332	(10120218)	609019.09
4202172.70	1.22030	(12011923)		
609034.09	4202172.70	1.28424	(12011923)	609049.09
4202172.70	1.35782	(12012005)		
609064.09	4202172.70	1.43409	(10010205)	609079.09
4202172.70	1.52062	(10010205)		
609094.09	4202172.70	1.61247	(09123103)	609109.09
4202172.70	1.71019	(10122106)		
609124.09	4202172.70	1.82862	(12120523)	609139.09
4202172.70	1.96421	(12120523)		
609154.09	4202172.70	2.11912	(13012320)	609169.09
4202172.70	2.30425	(10122201)		
609184.09	4202172.70	2.49686	(10021223)	609199.09
4202172.70	2.80358	(10020504)		
609214.09	4202172.70	3.14664	(10020504)	609229.09
4202172.70	3.47824	(10020504)		
609244.09	4202172.70	3.76641	(10020504)	609259.09
4202172.70	4.06002	(10020603)		
609274.09	4202172.70	4.62985	(10121405)	609289.09
4202172.70	4.99232	(09121818)		
609304.09	4202172.70	4.95657	(09123119)	609319.09
4202172.70	4.90241	(12123120)		
609334.09	4202172.70	4.86524	(13022419)	609349.09
4202172.70	4.88681	(10021118)		
609364.09	4202172.70	4.94080	(12010523)	609379.09
4202172.70	4.99997	(11120403)		
609409.09	4202172.70	4.11989	(13012505)	609424.09
4202172.70	3.61901	(10120324)		

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREA2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

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

Y-COORD (M)	CONC	(YYMMDDHH)	
609439.09	4202172.70	3.20943	(12123118) 609454.09
4202172.70	2.83930	(10121903)	
609469.09	4202172.70	2.47716	(10121903) 609484.09
4202172.70	2.23128	(12022118)	
609499.09	4202172.70	2.05482	(12022118) 609514.09
4202172.70	1.89495	(11011323)	
609529.09	4202172.70	1.73702	(11011323) 609544.09
4202172.70	1.61097	(10121022)	
609559.09	4202172.70	1.50502	(10121022) 609574.09
4202172.70	1.40156	(10121022)	
609589.09	4202172.70	1.30297	(13012506) 609604.09
4202172.70	1.21554	(13012506)	
609619.09	4202172.70	1.13518	(09010202) 609634.09
4202172.70	1.07395	(09010202)	
609649.09	4202172.70	1.01518	(09010202) 609664.09
4202172.70	0.95896	(09010202)	
609679.09	4202172.70	0.90557	(09010202) 609694.09
4202172.70	0.85496	(09010202)	
609709.09	4202172.70	0.80704	(09010202) 609724.09
4202172.70	0.76915	(11120401)	
608959.09	4202187.70	1.01426	(11121204) 608974.09
4202187.70	1.06344	(11121204)	
608989.09	4202187.70	1.11499	(11121204) 609004.09
4202187.70	1.17164	(09122008)	
609019.09	4202187.70	1.23190	(09122008) 609034.09
4202187.70	1.30062	(12012524)	
609049.09	4202187.70	1.37320	(12012524) 609064.09
4202187.70	1.45020	(12012524)	
609079.09	4202187.70	1.53629	(10120218) 609094.09
4202187.70	1.63146	(12011923)	
609109.09	4202187.70	1.73925	(12012005) 609124.09
4202187.70	1.85910	(12012005)	
609139.09	4202187.70	1.99189	(10010205) 609154.09
4202187.70	2.14791	(09123103)	
609169.09	4202187.70	2.33358	(10120918) 609184.09
4202187.70	2.54763	(12120523)	
609199.09	4202187.70	2.78119	(13012320) 609214.09
4202187.70	3.06608	(10122201)	
609229.09	4202187.70	3.51380	(10020504) 609244.09
4202187.70	4.05517	(10020504)	
609259.09	4202187.70	4.67800	(10020504) 609274.09
4202187.70	5.33056	(10020504)	
609409.09	4202187.70	4.33391	(10020321) 609424.09
4202187.70	3.69895	(12123118)	
609439.09	4202187.70	3.19354	(10021519) 609454.09
4202187.70	2.85613	(12022118)	
609469.09	4202187.70	2.56706	(11011323) 609484.09



4202187.70	2.30939	(12013024)		
609499.09	4202187.70	2.11277	(10121022)	609514.09
4202187.70	1.93655	(10121022)		
609529.09	4202187.70	1.77230	(10121022)	609544.09
4202187.70	1.62775	(13012506)		
609559.09	4202187.70	1.50485	(09010202)	609574.09
4202187.70	1.40317	(09010202)		
609589.09	4202187.70	1.30812	(09010202)	609604.09
4202187.70	1.21961	(09010202)		
609619.09	4202187.70	1.13723	(09010202)	609634.09
4202187.70	1.06565	(11120401)		
609649.09	4202187.70	1.00625	(11120401)	609664.09
4202187.70	0.95426	(11021923)		
609679.09	4202187.70	0.90979	(11021923)	609694.09
4202187.70	0.86752	(11021923)		
609709.09	4202187.70	0.82769	(11021923)	609724.09
4202187.70	0.79016	(11021923)		
608959.09	4202202.70	1.02177	(09020523)	608974.09
4202202.70	1.07261	(09020523)		
608989.09	4202202.70	1.12675	(09020523)	609004.09
4202202.70	1.18418	(09020523)		
609019.09	4202202.70	1.24533	(09020523)	609034.09
4202202.70	1.30893	(09021723)		
609049.09	4202202.70	1.37931	(09021723)	609064.09
4202202.70	1.45701	(09021723)		
609079.09	4202202.70	1.54484	(11121204)	609094.09
4202202.70	1.64190	(11121204)		
609109.09	4202202.70	1.75213	(09122008)	609124.09
4202202.70	1.87758	(12012524)		
609139.09	4202202.70	2.01408	(12012524)	609154.09
4202202.70	2.17468	(10120218)		
609169.09	4202202.70	2.36265	(10120218)	609184.09
4202202.70	2.57033	(12012005)		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
 \*\*\* 12:03:34

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREA2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M) Y-COORD (M)	Y-COORD (M) CONC (YYMMDDHH)	CONC	(YYMMDDHH)	X-COORD (M)
609199.09	4202202.70	2.80701	(10010205)	609214.09
4202202.70	3.09539 (10120918)			
609229.09	4202202.70	3.44453	(10120918)	609244.09
4202202.70	3.87528 (10020504)			
609259.09	4202202.70	4.61996	(10020504)	609274.09
4202202.70	5.44929 (10020504)			
609409.09	4202202.70	4.26709	(12022118)	609424.09
4202202.70	3.68823 (12022118)			
609439.09	4202202.70	3.22777	(10021418)	609454.09
4202202.70	2.89163 (10121022)			
609469.09	4202202.70	2.59980	(10121022)	609484.09
4202202.70	2.33525 (10021219)			
609499.09	4202202.70	2.12131	(09010202)	609514.09
4202202.70	1.93602 (09010202)			
609529.09	4202202.70	1.76972	(09010202)	609544.09
4202202.70	1.62443 (11120401)			
609559.09	4202202.70	1.50602	(11021923)	609574.09
4202202.70	1.40810 (11021923)			
609589.09	4202202.70	1.31898	(11021923)	609604.09
4202202.70	1.23751 (11021923)			
609619.09	4202202.70	1.16288	(11021923)	609634.09
4202202.70	1.09308 (11021923)			
609649.09	4202202.70	1.02826	(12121606)	609664.09
4202202.70	0.97398 (12121606)			
609679.09	4202202.70	0.92452	(12121606)	609694.09
4202202.70	0.87759 (12121606)			
609709.09	4202202.70	0.83365	(12121606)	609724.09
4202202.70	0.79523 (12013101)			
608959.09	4202217.70	1.03134	(12120423)	608974.09
4202217.70	1.08304 (12120423)			
608989.09	4202217.70	1.13864	(12120423)	609004.09
4202217.70	1.19828 (12120423)			
609019.09	4202217.70	1.26272	(12120423)	609034.09
4202217.70	1.33112 (12120423)			
609049.09	4202217.70	1.40422	(12120423)	609064.09
4202217.70	1.48371 (12120423)			
609079.09	4202217.70	1.56996	(12120423)	609094.09
4202217.70	1.66597 (12120423)			
609109.09	4202217.70	1.77232	(12120423)	609124.09
4202217.70	1.88987 (10120920)			
609139.09	4202217.70	2.02767	(10120920)	609154.09
4202217.70	2.19078 (10120920)			
609169.09	4202217.70	2.37926	(10120920)	609184.09
4202217.70	2.58344 (10120920)			
609199.09	4202217.70	2.81469	(13022823)	609214.09

4202217.70	3.09637	(13122019)		
609229.09	4202217.70	3.43659	(12011119)	609244.09
4202217.70	3.85899	(12011119)		
609259.09	4202217.70	4.38354	(13122220)	609274.09
4202217.70	5.24807	(10020504)		
609484.09	4202217.70	2.35229	(11011518)	609499.09
4202217.70	2.14031	(11011518)		
609514.09	4202217.70	1.95763	(12121606)	609529.09
4202217.70	1.79899	(12121606)		
609544.09	4202217.70	1.65964	(12013101)	609559.09
4202217.70	1.54113	(12013101)		
609574.09	4202217.70	1.43556	(12013101)	609589.09
4202217.70	1.34109	(12013101)		
609604.09	4202217.70	1.25532	(12013101)	609619.09
4202217.70	1.17754	(12013101)		
609634.09	4202217.70	1.10674	(12013101)	609649.09
4202217.70	1.04220	(12013101)		
609664.09	4202217.70	0.98541	(12013101)	609679.09
4202217.70	0.93403	(12013101)		
609694.09	4202217.70	0.88597	(12013101)	609709.09
4202217.70	0.84144	(12013101)		
609724.09	4202217.70	0.80127	(12013101)	608959.09
4202232.70	1.01354	(10013006)		
608974.09	4202232.70	1.06381	(10013006)	608989.09
4202232.70	1.11824	(10013006)		
609004.09	4202232.70	1.17698	(10013006)	609019.09
4202232.70	1.24093	(10013006)		
609034.09	4202232.70	1.31060	(10013006)	609049.09
4202232.70	1.38650	(10013006)		
609064.09	4202232.70	1.46730	(10013006)	609079.09
4202232.70	1.55330	(10013006)		
609094.09	4202232.70	1.65128	(10013006)	609109.09
4202232.70	1.76172	(10013006)		
609124.09	4202232.70	1.88431	(10013006)	609139.09
4202232.70	2.02238	(10121319)		

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 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
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 \*\*\* 12:03:34

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREA2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609154.09	4202232.70	2.18854	(10121319)	609169.09
4202232.70	2.38220	(12120423)		
609184.09	4202232.70	2.59459	(12120423)	609199.09
4202232.70	2.83238	(12120423)		
609214.09	4202232.70	3.10849	(12120423)	609229.09
4202232.70	3.43826	(12012707)		
609244.09	4202232.70	3.84828	(12012707)	609259.09
4202232.70	4.36120	(11020419)		
609274.09	4202232.70	4.90255	(12042123)	609424.09
4202232.70	3.63661	(10010104)		
609439.09	4202232.70	3.21127	(10010104)	609454.09
4202232.70	2.87135	(12013101)		
609469.09	4202232.70	2.58621	(12013101)	609484.09
4202232.70	2.35069	(12013101)		
609499.09	4202232.70	2.14598	(12013101)	609514.09
4202232.70	1.95979	(12013101)		
609529.09	4202232.70	1.79531	(12013101)	609544.09
4202232.70	1.65147	(12013101)		
609559.09	4202232.70	1.52642	(12121805)	609574.09
4202232.70	1.41868	(12121805)		
609589.09	4202232.70	1.32295	(12121805)	609604.09
4202232.70	1.23584	(12121805)		
609619.09	4202232.70	1.15691	(12121805)	609634.09
4202232.70	1.08748	(12121805)		
609649.09	4202232.70	1.02546	(12121805)	609664.09
4202232.70	0.96940	(12121805)		
609679.09	4202232.70	0.91853	(12121805)	609694.09
4202232.70	0.87187	(12121805)		
609709.09	4202232.70	0.82903	(12121805)	609724.09
4202232.70	0.79180	(12121805)		
608959.09	4202247.70	1.02701	(10021206)	608974.09
4202247.70	1.07753	(10021206)		
608989.09	4202247.70	1.13206	(10021206)	609004.09
4202247.70	1.19109	(10021206)		
609019.09	4202247.70	1.25521	(10021206)	609034.09
4202247.70	1.32504	(10021206)		
609049.09	4202247.70	1.40143	(10021206)	609064.09
4202247.70	1.48206	(10021206)		
609079.09	4202247.70	1.56737	(10021206)	609094.09
4202247.70	1.66452	(10021206)		
609109.09	4202247.70	1.77450	(10021206)	609124.09
4202247.70	1.89643	(10021206)		
609139.09	4202247.70	2.03196	(10021206)	609154.09

4202247.70	2.19043	(10021206)		
609169.09	4202247.70	2.37317	(10021206)	609184.09
4202247.70	2.58020	(13121719)		
609199.09	4202247.70	2.82468	(13121719)	609214.09
4202247.70	3.10592	(13121719)		
609229.09	4202247.70	3.44194	(13022822)	609244.09
4202247.70	3.85442	(13022822)		
609259.09	4202247.70	4.36565	(13022822)	609274.09
4202247.70	4.92276	(12020821)		
609424.09	4202247.70	3.61217	(10012718)	609439.09
4202247.70	3.18509	(10011408)		
609454.09	4202247.70	2.84265	(10011408)	609469.09
4202247.70	2.55291	(10011408)		
609484.09	4202247.70	2.31175	(10011408)	609499.09
4202247.70	2.10281	(10011408)		
609514.09	4202247.70	1.91907	(10011218)	609529.09
4202247.70	1.76302	(12121805)		
609544.09	4202247.70	1.62886	(12121805)	609559.09
4202247.70	1.51105	(12121805)		
609574.09	4202247.70	1.40551	(12121805)	609589.09
4202247.70	1.31133	(12121805)		
609604.09	4202247.70	1.22537	(12121805)	609619.09
4202247.70	1.14722	(12121805)		
609634.09	4202247.70	1.07888	(12121805)	609649.09
4202247.70	1.01796	(12121805)		
609664.09	4202247.70	0.96267	(12121805)	609679.09
4202247.70	0.91224	(12121805)		
609694.09	4202247.70	0.86606	(12121805)	609709.09
4202247.70	0.82373	(12121805)		
609724.09	4202247.70	0.78703	(12121805)	608959.09
4202262.70	1.02555	(12012004)		
608974.09	4202262.70	1.07585	(12012004)	608989.09
4202262.70	1.12987	(12012004)		
609004.09	4202262.70	1.18788	(12012004)	609019.09
4202262.70	1.25052	(12012004)		
609034.09	4202262.70	1.31837	(12012004)	609049.09
4202262.70	1.39199	(12012004)		

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 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREA2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

		**			
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	
Y-COORD (M)	CONC	(YYMMDDHH)			
-----					
609064.09	4202262.70	1.46964	(09020604)	609079.09	
4202262.70	1.55789	(09020604)			
609094.09	4202262.70	1.65717	(09020604)	609109.09	
4202262.70	1.76805	(09020604)			
609124.09	4202262.70	1.89137	(11123006)	609139.09	
4202262.70	2.02989	(11123006)			
609154.09	4202262.70	2.18356	(11123006)	609169.09	
4202262.70	2.35542	(11123006)			
609184.09	4202262.70	2.56116	(11123006)	609199.09	
4202262.70	2.80783	(09011224)			
609214.09	4202262.70	3.09917	(09011224)	609229.09	
4202262.70	3.44117	(12020821)			
609244.09	4202262.70	3.87165	(12020821)	609259.09	
4202262.70	4.40035	(12020821)			
609274.09	4202262.70	5.02921	(13121619)	609424.09	
4202262.70	3.62007	(13120704)			
609439.09	4202262.70	3.18554	(10012718)	609454.09	
4202262.70	2.84260	(10012718)			
609469.09	4202262.70	2.55624	(10012718)	609484.09	
4202262.70	2.31264	(10012718)			
609499.09	4202262.70	2.10160	(10012718)	609514.09	
4202262.70	1.92448	(10011408)			
609529.09	4202262.70	1.77475	(10011408)	609544.09	
4202262.70	1.64621	(10011408)			
609559.09	4202262.70	1.53138	(10011408)	609574.09	
4202262.70	1.42470	(10011408)			
609589.09	4202262.70	1.32772	(10011408)	609604.09	
4202262.70	1.23837	(10011408)			
609619.09	4202262.70	1.15643	(10011408)	609634.09	
4202262.70	1.08419	(10011408)			
609649.09	4202262.70	1.01943	(10011408)	609664.09	
4202262.70	0.96027	(10011408)			
609679.09	4202262.70	0.90610	(10011408)	609694.09	
4202262.70	0.85645	(10011408)			
609709.09	4202262.70	0.81077	(10011408)	609724.09	
4202262.70	0.77052	(10011408)			
609424.09	4202277.70	3.60989	(10010102)	609439.09	
4202277.70	3.15539	(13012303)			
609454.09	4202277.70	2.81121	(11121823)	609469.09	
4202277.70	2.52862	(11121823)			
609484.09	4202277.70	2.27812	(11121823)	609499.09	

4202277.70	2.06067	(13120704)		
609514.09	4202277.70	1.87292	(13120704)	609529.09
4202277.70	1.72574	(10012718)		
609544.09	4202277.70	1.60626	(10012718)	609559.09
4202277.70	1.49753	(10012718)		
609574.09	4202277.70	1.39566	(10012718)	609589.09
4202277.70	1.30186	(10012718)		
609604.09	4202277.70	1.21480	(10012718)	609619.09
4202277.70	1.13975	(10011408)		
609634.09	4202277.70	1.07743	(10011408)	609649.09
4202277.70	1.02042	(10011408)		
609664.09	4202277.70	0.96754	(10011408)	609679.09
4202277.70	0.91850	(10011408)		
609694.09	4202277.70	0.87294	(10011408)	609709.09
4202277.70	0.83061	(10011408)		
609724.09	4202277.70	0.79228	(10011408)	609409.09
4202322.70	3.78456	(12120506)		
609424.09	4202322.70	3.47138	(09022423)	609439.09
4202322.70	3.14839	(09122922)		
609454.09	4202322.70	2.87322	(10122817)	609469.09
4202322.70	2.62420	(11123023)		
609484.09	4202322.70	2.35850	(11123023)	609499.09
4202322.70	2.06608	(11123023)		
609514.09	4202322.70	1.80382	(12020722)	609529.09
4202322.70	1.66661	(09012121)		
609544.09	4202322.70	1.53518	(11010118)	609559.09
4202322.70	1.40779	(11010118)		
609574.09	4202322.70	1.31297	(13012303)	609589.09
4202322.70	1.23585	(11121823)		
609604.09	4202322.70	1.17612	(11121823)	609619.09
4202322.70	1.11480	(11121823)		
609634.09	4202322.70	1.05317	(11121823)	609649.09
4202322.70	0.99220	(11121823)		
609664.09	4202322.70	0.93257	(11121823)	609679.09
4202322.70	0.87670	(09010806)		
609694.09	4202322.70	0.83041	(13120704)	609409.09
4202337.70	3.41786	(12120506)		
609424.09	4202337.70	3.17791	(10012518)	609439.09
4202337.70	2.96128	(09022423)		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREA2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M\*\*3

\*\*

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
4202337.70	609454.09	4202337.70	2.72756	(09122922)	609469.09
4202337.70	609484.09	4202337.70	2.32063	(11123023)	609499.09
4202337.70	609514.09	4202337.70	1.94319	(11123023)	609529.09
4202337.70	609544.09	4202337.70	1.51146	(12020722)	609559.09
4202337.70	609574.09	4202337.70	1.31354	(11010118)	609589.09
4202337.70	609604.09	4202337.70	1.13506	(13012303)	609619.09
4202337.70	609634.09	4202337.70	1.01147	(11121823)	609649.09
4202337.70	609664.09	4202337.70	0.92771	(11121823)	609679.09
4202337.70	609694.09	4202337.70	0.84083	(11121823)	609709.09
4202337.70	609724.09	4202337.70	0.75598	(11121823)	609409.09
4202352.70	609424.09	4202352.70	2.96056	(12120506)	609439.09
4202352.70	609454.09	4202352.70	2.57130	(09022423)	609469.09
4202352.70	609484.09	4202352.70	2.21230	(09122922)	609499.09
4202352.70	609514.09	4202352.70	1.94855	(11123023)	609529.09
4202352.70	609544.09	4202352.70	1.63077	(11123023)	609559.09
4202352.70	609574.09	4202352.70	1.29008	(12020722)	609589.09
4202352.70	609604.09	4202352.70	1.14049	(09012121)	609619.09
4202352.70	609634.09	4202352.70	0.99657	(11010118)	609649.09
4202352.70	609664.09	4202352.70	0.88683	(13012303)	609679.09
4202352.70	609694.09	4202352.70	0.81709	(11121823)	609709.09



4202352.70	0.78708	(11121823)		
609724.09	4202352.70	0.75884	(11121823)	609409.09
4202367.70	2.81679	(12120608)		
609424.09	4202367.70	2.67690	(13020722)	609439.09
4202367.70	2.58360	(12120506)		
609454.09	4202367.70	2.37569	(10012518)	609469.09
4202367.70	2.26359	(09022423)		
609484.09	4202367.70	2.11993	(09021721)	609499.09
4202367.70	1.99210	(09122922)		
609514.09	4202367.70	1.87901	(10122817)	609529.09
4202367.70	1.75568	(10122817)		
609544.09	4202367.70	1.66329	(11123023)	609559.09
4202367.70	1.53820	(11123023)		
609574.09	4202367.70	1.38733	(11123023)	609589.09
4202367.70	1.22442	(11123023)		
609604.09	4202367.70	1.11525	(12020722)	609619.09
4202367.70	1.05665	(12020722)		
609634.09	4202367.70	0.99950	(09012121)	609649.09
4202367.70	0.94196	(11010118)		
609664.09	4202367.70	0.88658	(11010118)	609679.09
4202367.70	0.83120	(13012303)		
609694.09	4202367.70	0.79408	(13012303)	609709.09
4202367.70	0.75518	(13012303)		
609724.09	4202367.70	0.72548	(11121823)	609394.09
4202382.70	2.62546	(12021206)		
609409.09	4202382.70	2.57881	(12021724)	609424.09
4202382.70	2.49166	(12120608)		
609439.09	4202382.70	2.36689	(11010201)	609454.09
4202382.70	2.27175	(12120506)		
609469.09	4202382.70	2.09589	(13011002)	609484.09
4202382.70	2.01476	(09022423)		
609499.09	4202382.70	1.89283	(09021721)	609514.09
4202382.70	1.80104	(09122922)		
609529.09	4202382.70	1.68919	(10122817)	609544.09
4202382.70	1.61261	(10122817)		
609559.09	4202382.70	1.52004	(11123023)	609574.09
4202382.70	1.43340	(11123023)		
609589.09	4202382.70	1.31724	(11123023)	609604.09
4202382.70	1.18861	(11123023)		
609619.09	4202382.70	1.05362	(11123023)	609634.09
4202382.70	0.97603	(12020722)		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
 \*\*\* 12:03:34

PAGE 60  
 \*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION

VALUES FOR SOURCE GROUP: ALL

\*\*\*

INCLUDING SOURCE(S): PAREA2

,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609649.09	4202382.70	0.93064	(12020722)	609664.09
4202382.70	0.88587	(09012121)		
609679.09	4202382.70	0.84023	(11010118)	609694.09
4202382.70	0.79758	(11010118)		
609709.09	4202382.70	0.75252	(11010118)	609724.09
4202382.70	0.71745	(13012303)		
609394.09	4202397.70	2.39682	(11022222)	609409.09
4202397.70	2.37108	(10020523)		
609424.09	4202397.70	2.29504	(12120608)	609439.09
4202397.70	2.18287	(10021424)		
609454.09	4202397.70	2.11931	(12120506)	609469.09
4202397.70	2.01176	(12120506)		
609484.09	4202397.70	1.87354	(13011002)	609499.09
4202397.70	1.80941	(09022423)		
609514.09	4202397.70	1.71327	(09022423)	609529.09
4202397.70	1.63467	(09122922)		
609544.09	4202397.70	1.52773	(09122922)	609559.09
4202397.70	1.47304	(10122817)		
609574.09	4202397.70	1.38400	(10122817)	609589.09
4202397.70	1.32221	(11123023)		
609604.09	4202397.70	1.24397	(11123023)	609619.09
4202397.70	1.14625	(11123023)		
609634.09	4202397.70	1.03600	(11123023)	609649.09
4202397.70	0.92034	(11123023)		
609664.09	4202397.70	0.86624	(12020722)	609679.09
4202397.70	0.83066	(12020722)		
609694.09	4202397.70	0.79374	(09012121)	609709.09
4202397.70	0.75638	(09012121)		
609724.09	4202397.70	0.72382	(11010118)	609394.09
4202412.70	2.21373	(09022220)		
609409.09	4202412.70	2.17722	(12021206)	609424.09
4202412.70	2.13354	(12021724)		
609439.09	4202412.70	2.07184	(12120608)	609454.09
4202412.70	1.96454	(13020722)		
609469.09	4202412.70	1.91549	(12120506)	609484.09
4202412.70	1.79227	(12120506)		
609499.09	4202412.70	1.68877	(13011002)	609514.09

4202412.70	1.63739	(09022423)		
609529.09	4202412.70	1.56289	(09022423)	609544.09
4202412.70	1.48729	(09021721)		
609559.09	4202412.70	1.40349	(09122922)	609574.09
4202412.70	1.34090	(10122817)		
609589.09	4202412.70	1.28444	(10122817)	609604.09
4202412.70	1.21863	(11123023)		
609619.09	4202412.70	1.16849	(11123023)	609634.09
4202412.70	1.09624	(11123023)		
609649.09	4202412.70	1.00861	(11123023)	609664.09
4202412.70	0.91201	(11123023)		
609679.09	4202412.70	0.81196	(11123023)	609694.09
4202412.70	0.77608	(12020722)		
609709.09	4202412.70	0.74748	(12020722)	609724.09
4202412.70	0.71680	(09012121)		
609394.09	4202427.70	2.06836	(09022220)	609409.09
4202427.70	2.01084	(12021206)		
609424.09	4202427.70	1.98624	(09022307)	609439.09
4202427.70	1.91676	(12120608)		
609454.09	4202427.70	1.84776	(12120608)	609469.09
4202427.70	1.78072	(13020722)		
609484.09	4202427.70	1.73650	(12120506)	609499.09
4202427.70	1.62080	(10012518)		
609514.09	4202427.70	1.53288	(13011002)	609529.09
4202427.70	1.49133	(09022423)		
609544.09	4202427.70	1.43062	(09022423)	609559.09
4202427.70	1.36355	(09021721)		
609574.09	4202427.70	1.30021	(09122922)	609589.09
4202427.70	1.22716	(10122817)		
609604.09	4202427.70	1.19367	(10122817)	609619.09
4202427.70	1.13009	(10122817)		
609634.09	4202427.70	1.09084	(11123023)	609649.09
4202427.70	1.04030	(11123023)		
609664.09	4202427.70	0.97298	(11123023)	609679.09
4202427.70	0.89440	(11123023)		
609694.09	4202427.70	0.80913	(11123023)	609709.09
4202427.70	0.72194	(11123023)		
609724.09	4202427.70	0.70061	(12020722)	609439.09
4202472.70	1.58995	(10020523)		
609454.09	4202472.70	1.55453	(10022423)	609469.09
4202472.70	1.51659	(12120608)		
609484.09	4202472.70	1.43518	(12120608)	609499.09
4202472.70	1.40699	(13020722)		

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\*  
 \*\*\* AERMET - VERSION 14134 \*\*\*

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

VALUES FOR SOURCE GROUP: ALL                    \*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
    \*\*\*  
    INCLUDING SOURCE(S):        PAREA2        ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>    IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609514.09	4202472.70	1.37769	(12120506)	609529.09
4202472.70	1.31624	(12120506)		
609544.09	4202472.70	1.24566	(10012518)	609559.09
4202472.70	1.18594	(13011002)		
609574.09	4202472.70	1.16259	(09022423)	609589.09
4202472.70	1.13418	(09022423)		
609604.09	4202472.70	1.07800	(09021721)	609619.09
4202472.70	1.04262	(09122922)		
609634.09	4202472.70	0.99957	(09122922)	609649.09
4202472.70	0.95061	(10122817)		
609664.09	4202472.70	0.93576	(10122817)	609679.09
4202472.70	0.90014	(10122817)		
609694.09	4202472.70	0.86344	(12121607)	609319.09
4202487.70	1.71548	(10012801)		
609334.09	4202487.70	1.74044	(10120908)	609349.09
4202487.70	1.63865	(10121108)		
609364.09	4202487.70	1.61620	(11020103)	609394.09
4202487.70	1.56965	(10121808)		
609409.09	4202487.70	1.56035	(09022220)	609424.09
4202487.70	1.50539	(11022222)		
609439.09	4202487.70	1.49371	(12021206)	609454.09
4202487.70	1.47085	(09022307)		
609469.09	4202487.70	1.42536	(10022423)	609484.09
4202487.70	1.39512	(12120608)		
609499.09	4202487.70	1.32077	(10021424)	609514.09
4202487.70	1.29808	(11010201)		
609529.09	4202487.70	1.27602	(12120506)	609544.09
4202487.70	1.20677	(12120506)		
609559.09	4202487.70	1.15046	(10012518)	609574.09
4202487.70	1.09868	(13011002)		
609589.09	4202487.70	1.07926	(09022423)	609604.09
4202487.70	1.05625	(09022423)		
609619.09	4202487.70	1.00142	(09021721)	609634.09
4202487.70	0.97753	(09021721)		
609649.09	4202487.70	0.94301	(09122922)	609664.09

4202487.70	0.89001	(10020522)		
609679.09	4202487.70	0.87615	(10122817)	609184.09
4202502.70	1.40900	(10010218)		
609199.09	4202502.70	1.43023	(10010218)	609214.09
4202502.70	1.43640	(11011921)		
609229.09	4202502.70	1.50094	(12122821)	609244.09
4202502.70	1.54112	(10121308)		
609259.09	4202502.70	1.56311	(09121604)	609274.09
4202502.70	1.59414	(11123003)		
609289.09	4202502.70	1.58846	(09011124)	609304.09
4202502.70	1.61589	(11012907)		
609319.09	4202502.70	1.61565	(10012801)	609334.09
4202502.70	1.63671	(10120908)		
609349.09	4202502.70	1.53929	(10121108)	609364.09
4202502.70	1.51444	(09120508)		
609394.09	4202502.70	1.49137	(10121808)	609409.09
4202502.70	1.46950	(09022220)		
609424.09	4202502.70	1.42407	(10020719)	609439.09
4202502.70	1.41078	(12021206)		
609454.09	4202502.70	1.39217	(10020523)	609469.09
4202502.70	1.35878	(10022423)		
609484.09	4202502.70	1.32434	(12120608)	609499.09
4202502.70	1.27254	(12120608)		
609514.09	4202502.70	1.23054	(13020722)	609529.09
4202502.70	1.20504	(09022424)		
609544.09	4202502.70	1.18316	(12120506)	609559.09
4202502.70	1.11282	(10122303)		
609574.09	4202502.70	1.06647	(10012518)	609589.09
4202502.70	1.02160	(13011002)		
609604.09	4202502.70	1.00539	(09022423)	609619.09
4202502.70	0.98828	(09022423)		
609634.09	4202502.70	0.93906	(09022423)	609649.09
4202502.70	0.91984	(09021721)		
609664.09	4202502.70	0.88896	(09122922)	609064.09
4202517.70	1.04377	(09122817)		
609079.09	4202517.70	1.06543	(13012924)	609094.09
4202517.70	1.09525	(13012924)		
609109.09	4202517.70	1.15997	(09021623)	609124.09
4202517.70	1.19043	(12122304)		
609139.09	4202517.70	1.23503	(12122304)	609154.09
4202517.70	1.27179	(11021706)		
609169.09	4202517.70	1.31238	(09012124)	609184.09
4202517.70	1.34726	(10010218)		
609199.09	4202517.70	1.33853	(13120920)	609214.09
4202517.70	1.38273	(11011921)		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\*  
 \*\*\* AERMET - VERSION 14134 \*\*\*

10/28/21

\*\*\* 12:03:34

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREA2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

Y-COORD (M)	X-COORD (M)	Y-COORD (M) CONC	CONC	(YYMMDDHH)	X-COORD (M)
609229.09	4202517.70	4202517.70	1.43102	(10121308)	609244.09
4202517.70	1.46475	(10122619)			
609259.09	4202517.70	4202517.70	1.46936	(10010508)	609274.09
4202517.70	1.50270	(11123003)			
609289.09	4202517.70	4202517.70	1.49863	(09022320)	609304.09
4202517.70	1.52158	(11012907)			
609319.09	4202517.70	4202517.70	1.52414	(10012801)	609334.09
4202517.70	1.54259	(10120908)			
609349.09	4202517.70	4202517.70	1.44980	(10121108)	609364.09
4202517.70	1.42859	(09120508)			
609409.09	4202517.70	4202517.70	1.37666	(11122819)	609424.09
4202517.70	1.35505	(09022220)			
609439.09	4202517.70	4202517.70	1.31497	(12021206)	609454.09
4202517.70	1.30973	(10020523)			
609469.09	4202517.70	4202517.70	1.28892	(12021724)	609484.09
4202517.70	1.25379	(10022423)			
609499.09	4202517.70	4202517.70	1.23239	(12120608)	609514.09
4202517.70	1.16414	(10021424)			
609529.09	4202517.70	4202517.70	1.14917	(13020722)	609544.09
4202517.70	1.12450	(09022424)			
609559.09	4202517.70	4202517.70	1.09849	(12120506)	609574.09
4202517.70	1.03230	(10012518)			
609589.09	4202517.70	4202517.70	0.99153	(10012518)	609604.09
4202517.70	0.95322	(13011002)			
609619.09	4202517.70	4202517.70	0.93976	(09022423)	609634.09
4202517.70	0.92700	(09022423)			
609649.09	4202517.70	4202517.70	0.88512	(09022423)	609079.09
4202532.70	1.02745	(13012924)			
609094.09	4202532.70	4202532.70	1.08259	(09021623)	609109.09
4202532.70	1.11333	(11121408)			
609124.09	4202532.70	4202532.70	1.15671	(12122304)	609139.09
4202532.70	1.17964	(11021706)			
609154.09	4202532.70	4202532.70	1.21786	(09012124)	609169.09

4202532.70	1.25388	(10010218)		
609184.09	4202532.70	1.26167	(10010218)	609199.09
4202532.70	1.26418	(13120920)		
609214.09	4202532.70	1.32101	(12122821)	609229.09
4202532.70	1.36431	(10121308)		
609244.09	4202532.70	1.38399	(10122619)	609259.09
4202532.70	1.39018	(10010508)		
609274.09	4202532.70	1.41239	(11123003)	609289.09
4202532.70	1.42453	(09022320)		
609304.09	4202532.70	1.43346	(11012907)	609319.09
4202532.70	1.43987	(10012801)		
609334.09	4202532.70	1.45678	(10120908)	609349.09
4202532.70	1.36857	(10121108)		
609364.09	4202532.70	1.34959	(09120508)	609409.09
4202532.70	1.30263	(11122819)		
609424.09	4202532.70	1.29299	(09022220)	609439.09
4202532.70	1.24999	(11022222)		
609454.09	4202532.70	1.24348	(12021206)	609469.09
4202532.70	1.22322	(10020523)		
609484.09	4202532.70	1.19902	(10022423)	609499.09
4202532.70	1.16840	(12120608)		
609514.09	4202532.70	1.13728	(12120608)	609529.09
4202532.70	1.08425	(10021424)		
609544.09	4202532.70	1.07107	(13020722)	609559.09
4202532.70	1.05408	(12120506)		
609574.09	4202532.70	1.02130	(12120506)	609589.09
4202532.70	0.96590	(10012518)		
609604.09	4202532.70	0.92467	(10012518)	609619.09
4202532.70	0.89222	(13011002)		
609094.09	4202547.70	1.04369	(11121408)	609109.09
4202547.70	1.08191	(12122304)		
609124.09	4202547.70	1.10075	(11122707)	609139.09
4202547.70	1.13603	(11021706)		
609154.09	4202547.70	1.16950	(09012124)	609169.09
4202547.70	1.19894	(10010218)		
609184.09	4202547.70	1.18880	(13120920)	609199.09
4202547.70	1.22119	(11011921)		
609214.09	4202547.70	1.25755	(12122821)	609229.09
4202547.70	1.28989	(10121308)		
609244.09	4202547.70	1.31189	(09121604)	609259.09
4202547.70	1.32671	(11123003)		
609274.09	4202547.70	1.33203	(09011124)	609289.09
4202547.70	1.35540	(09022320)		
609304.09	4202547.70	1.35297	(11012907)	609319.09
4202547.70	1.36408	(10012801)		
609334.09	4202547.70	1.37877	(10120908)	609349.09
4202547.70	1.29377	(10121108)		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\*  
 \*\*\* AERMET - VERSION 14134 \*\*\*

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

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

INCLUDING SOURCE(S): PAREA2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609364.09	4202547.70	1.27654	(09120508)	609409.09
4202547.70	1.22890	(11122819)		
609424.09	4202547.70	1.22744	(09022220)	609439.09
4202547.70	1.18665	(10020719)		
609454.09	4202547.70	1.17231	(12021206)	609469.09
4202547.70	1.16069	(10020523)		
609484.09	4202547.70	1.14306	(12021724)	609499.09
4202547.70	1.11502	(10022423)		
609514.09	4202547.70	1.09793	(12120608)	609529.09
4202547.70	1.04258	(12120608)		
609544.09	4202547.70	1.02071	(13020722)	609559.09
4202547.70	1.00325	(11010201)		
609574.09	4202547.70	0.99010	(12120506)	609589.09
4202547.70	0.95101	(12120506)		
609109.09	4202562.70	1.03498	(12122304)	609124.09
4202562.70	1.06623	(11021706)		
609139.09	4202562.70	1.09691	(09012124)	609154.09
4202562.70	1.12514	(10010218)		
609169.09	4202562.70	1.12472	(10010218)	609184.09
4202562.70	1.13003	(13120920)		
609199.09	4202562.70	1.17333	(12122821)	609214.09
4202562.70	1.21315	(10121308)		
609229.09	4202562.70	1.23646	(10122619)	609244.09
4202562.70	1.23836	(09121604)		
609259.09	4202562.70	1.26818	(11123003)	609274.09
4202562.70	1.26554	(09011124)		
609289.09	4202562.70	1.28983	(09022320)	609304.09
4202562.70	1.27834	(11012907)		
609319.09	4202562.70	1.29473	(10012801)	609334.09
4202562.70	1.30758	(10120908)		
609349.09	4202562.70	1.22510	(10121108)	609364.09



4202562.70	1.20893	(09120508)		
609409.09	4202562.70	1.16962	(10121808)	609424.09
4202562.70	1.16010	(09022220)		
609439.09	4202562.70	1.13232	(09022220)	609454.09
4202562.70	1.10186	(11022222)		
609469.09	4202562.70	1.10248	(12021206)	609484.09
4202562.70	1.08897	(09022307)		
609499.09	4202562.70	1.06959	(10022423)	609514.09
4202562.70	1.03994	(12120608)		
609529.09	4202562.70	1.02335	(12120608)	609544.09
4202562.70	0.97166	(10021424)		
609559.09	4202562.70	0.96228	(13020722)	609574.09
4202562.70	0.94294	(09022424)		
609124.09	4202577.70	1.02172	(09012124)	609139.09
4202577.70	1.04881	(09012124)		
609154.09	4202577.70	1.07521	(10010218)	609169.09
4202577.70	1.06535	(13120920)		
609184.09	4202577.70	1.08893	(11011921)	609199.09
4202577.70	1.12807	(12122821)		
609214.09	4202577.70	1.16130	(10121308)	609229.09
4202577.70	1.17800	(10122619)		
609244.09	4202577.70	1.18141	(10010508)	609259.09
4202577.70	1.20840	(11123003)		
609274.09	4202577.70	1.20075	(09011124)	609289.09
4202577.70	1.22735	(09022320)		
609304.09	4202577.70	1.20875	(11012907)	609319.09
4202577.70	1.23232	(12012604)		
609334.09	4202577.70	1.24257	(10120908)	609349.09
4202577.70	1.16299	(10121108)		
609364.09	4202577.70	1.14659	(09120508)	609409.09
4202577.70	1.12127	(10121808)		
609424.09	4202577.70	1.09745	(11122819)	609439.09
4202577.70	1.08962	(09022220)		
609454.09	4202577.70	1.05585	(11022222)	609469.09
4202577.70	1.04990	(12021206)		
609484.09	4202577.70	1.03908	(10020523)	609499.09
4202577.70	1.02390	(12021724)		
609514.09	4202577.70	1.00046	(10022423)	609529.09
4202577.70	0.98540	(12120608)		
609544.09	4202577.70	0.94749	(12120608)	609139.09
4202592.70	1.01661	(10010218)		
609154.09	4202592.70	1.00975	(10010218)	609169.09
4202592.70	1.01683	(13120920)		
609184.09	4202592.70	1.05191	(11011921)	609199.09
4202592.70	1.08227	(10121308)		
609214.09	4202592.70	1.10298	(10122619)	609229.09
4202592.70	1.12284	(09121604)		
609244.09	4202592.70	1.12621	(10010508)	609259.09
4202592.70	1.14832	(11123003)		

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD

\*\*\* AERMET - VERSION 14134 \*\*\*  
 \*\*\* 12:03:34

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

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

INCLUDING SOURCE(S): PAREA2 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609274.09	4202592.70	1.13792	(09011124)	609289.09
4202592.70	1.16782	(09022320)		
609304.09	4202592.70	1.14381	(11012907)	609319.09
4202592.70	1.17486	(12012604)		
609334.09	4202592.70	1.18288	(10120908)	609349.09
4202592.70	1.10776	(10120908)		
609364.09	4202592.70	1.09001	(11012906)	609409.09
4202592.70	1.07320	(10121808)		
609424.09	4202592.70	1.04687	(11122819)	609439.09
4202592.70	1.04358	(09022220)		
609454.09	4202592.70	1.00755	(10020719)	609469.09
4202592.70	0.99114	(12021206)		
609484.09	4202592.70	0.98573	(12021206)	609499.09
4202592.70	0.97914	(09022307)		
609514.09	4202592.70	0.96219	(10022423)	609529.09
4202592.70	0.93273	(12120608)		
609169.09	4202607.70	0.97705	(11011921)	609184.09
4202607.70	1.01634	(12122821)		
609199.09	4202607.70	1.04678	(10121308)	609214.09
4202607.70	1.06347	(10122619)		
609229.09	4202607.70	1.06840	(09121604)	609244.09
4202607.70	1.08171	(11123003)		
609259.09	4202607.70	1.08861	(11123003)	609274.09
4202607.70	1.08820	(09022320)		
609289.09	4202607.70	1.11139	(11012907)	609304.09
4202607.70	1.08567	(12022721)		
609319.09	4202607.70	1.12162	(12012604)	609334.09
4202607.70	1.12777	(10120908)		
609349.09	4202607.70	1.05690	(10120908)	609364.09

4202607.70	1.03920	(11012906)		
609409.09	4202607.70	1.02604	(10121808)	609424.09
4202607.70	0.99606	(11122819)		
609439.09	4202607.70	0.99516	(09022220)	609454.09
4202607.70	0.96291	(09022220)		
609469.09	4202607.70	0.94307	(11022222)	609484.09
4202607.70	0.94674	(12021206)		
609499.09	4202607.70	0.93754	(10020523)	609199.09
4202622.70	1.00403	(10121308)		
609214.09	4202622.70	1.01866	(10122619)	609229.09
4202622.70	1.01736	(10010508)		
609244.09	4202622.70	1.04144	(11123003)	609259.09
4202622.70	1.03666	(09011124)		
609274.09	4202622.70	1.04770	(09022320)	609289.09
4202622.70	1.06249	(11012907)		
609304.09	4202622.70	1.03892	(12022721)	609319.09
4202622.70	1.07213	(12012604)		
609334.09	4202622.70	1.07683	(10120908)	609349.09
4202622.70	1.00988	(10120908)		
609364.09	4202622.70	0.99189	(11012906)	609409.09
4202622.70	0.97976	(10121808)		
609424.09	4202622.70	0.94716	(10121808)	609439.09
4202622.70	0.94546	(09022220)		
609454.09	4202622.70	0.93281	(09022220)	609469.09
4202622.70	0.90709	(11022222)		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
 \*\*\* 12:03:34

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

\*\*\* THE SUMMARY OF MAXIMUM ANNUAL RESULTS

AVERAGED OVER 5 YEARS \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

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

ALL 1ST HIGHEST VALUE IS 0.63294 AT ( 609409.09, 4202202.70,  
 40.02, 40.02, 0.00) DC  
 2ND HIGHEST VALUE IS 0.52437 AT ( 609409.09, 4202187.70,

40.10, 40.10, 0.00) DC  
 3RD HIGHEST VALUE IS 0.51835 AT ( 609424.09, 4202232.70,  
 40.00, 40.00, 0.00) DC  
 4TH HIGHEST VALUE IS 0.49061 AT ( 609424.09, 4202247.70,  
 40.00, 40.00, 0.00) DC  
 5TH HIGHEST VALUE IS 0.48591 AT ( 609424.09, 4202202.70,  
 40.03, 40.03, 0.00) DC  
 6TH HIGHEST VALUE IS 0.43614 AT ( 609424.09, 4202262.70,  
 40.00, 40.00, 0.00) DC  
 7TH HIGHEST VALUE IS 0.43001 AT ( 609274.09, 4202217.70,  
 41.00, 41.00, 0.00) DC  
 8TH HIGHEST VALUE IS 0.42609 AT ( 609424.09, 4202187.70,  
 40.21, 40.21, 0.00) DC  
 9TH HIGHEST VALUE IS 0.42509 AT ( 609274.09, 4202202.70,  
 41.00, 41.00, 0.00) DC  
 10TH HIGHEST VALUE IS 0.41200 AT ( 609274.09, 4202232.70,  
 41.00, 41.00, 0.00) DC

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

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
 \*\*\* 12:03:34

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

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

RESULTS \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

GROUP ID (XR, YR, ZELEV, ZHILL, ZFLAG)	AVERAGE CONC OF TYPE	NETWORK GRID-ID	DATE (YYMMDDHH)	RECEPTOR
ALL HIGH	5.44929	ON 10020504	AT ( 609274.09,	
4202202.70,	41.00,	41.00,	0.00) DC	

\*\*\* RECEPTOR TYPES: GC = GRIDCART

GP = GRIDPOLR  
DC = DISCCART  
DP = DISCPOLR

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Lakes\AERMOD  
View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\*

10/28/21

\*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
\*\*\* 12:03:34

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

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

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

A Total of 0 Fatal Error Message(s)  
A Total of 1 Warning Message(s)  
A Total of 15235 Informational Message(s)  
  
A Total of 43872 Hours Were Processed  
  
A Total of 13448 Calm Hours Identified  
  
A Total of 1787 Missing Hours Identified ( 4.07 Percent)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
MX W481 43873 MAIN: Data Remaining After End of Year. Number of Hours=  
48

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

```

**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.0.0
** Lakes Environmental Software Inc.
** Date: 10/28/2021
** File: C:\Lakes\AERMOD
View\5200LoneTree_Construction_TIER4MITGATION\5200LoneTree_Construction_TIER4MITGAT
ION.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Lakes\AERMOD View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel
  MODELOPT DFAULT CONC
  AVERTIME 1 ANNUAL
  URBANOPT 111502 Antioch
  POLLUTID PM_2.5
  RUNORNOT RUN
  ERRORFIL 5200LoneTree_Construction_TIER4MITGATION.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION PAREA4      AREAPOLY    609290.367  4202285.159      41.000
** Source Parameters **
  SRCPARAM PAREA4      2.0497E-08      3.100          4
  AREAVERT PAREA4      609290.367  4202285.159  609382.368  4202285.833
  AREAVERT PAREA4      609383.716  4202191.136  609290.704  4202191.473
  URBANSRC ALL
  SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**

```

```
**
RE STARTING
  INCLUDED 5200LoneTree_Construction_TIER4MITGATION.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
  SURFFILE "C:\Users\kheck\Desktop\Met Data\Livermore_2009-2014\724927.SFC"
  PROFFILE "C:\Users\kheck\Desktop\Met Data\Livermore_2009-2014\724927.PFL"
  SURFDATA 23285 2009
  UAIRDATA 23230 2009 OAKLAND/WSO_AP
  PROFBASE 125.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 1 1ST
** Auto-Generated Plotfiles
  PLOTFILE 1 ALL 1ST 5200LONETREE_CONSTRUCTION_TIER4MITGATION.AD\01H1GALL.PLT 31
  PLOTFILE ANNUAL ALL 5200LONETREE_CONSTRUCTION_TIER4MITGATION.AD\AN00GALL.PLT 32
  SUMMFILE 5200LoneTree_Construction_TIER4MITGATION.sum
OU FINISHED
**
*****
** Project Parameters
*****
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     10
** ZONEINX  0
**
```

```

**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.0.0
** Lakes Environmental Software Inc.
** Date: 10/28/2021
** File: C:\Lakes\AERMOD
View\5200LoneTree_Construction_TIER4MITGATION\5200LoneTree_Construction_TIER4MITGAT
ION.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Lakes\AERMOD View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel
  MODELOPT DFAULT CONC
  AVERTIME 1 ANNUAL
  URBANOPT 111502 Antioch
  POLLUTID PM_2.5
  RUNORNOT RUN
  ERRORFIL 5200LoneTree_Construction_TIER4MITGATION.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION PAREA4      AREAPOLY    609290.367   4202285.159       41.000
** Source Parameters **
  SRCPARAM PAREA4      2.0497E-08      3.100           4
  AREAVERT PAREA4      609290.367  4202285.159  609382.368  4202285.833
  AREAVERT PAREA4      609383.716  4202191.136  609290.704  4202191.473
  URBANSRC ALL
  SRCGROUP ALL
SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**

```



\*\*  
RE STARTING  
INCLUDED 5200LoneTree\_Construction\_TIER4MITGATION.rou  
RE FINISHED

\*\*  
\*\*\*\*\*  
\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

\*\*  
\*\*  
ME STARTING  
SURFFILE "C:\Users\kheck\Desktop\Met Data\Livermore\_2009-2014\724927.SFC"  
PROFFILE "C:\Users\kheck\Desktop\Met Data\Livermore\_2009-2014\724927.PFL"  
SURFDATA 23285 2009  
UAIRDATA 23230 2009 OAKLAND/WSO\_AP  
PROFBASE 125.0 METERS

ME FINISHED  
\*\*  
\*\*\*\*\*  
\*\* AERMOD Output Pathway  
\*\*\*\*\*

\*\*  
\*\*  
OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 1 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 1 ALL 1ST 5200LONETREE\_CONSTRUCTION\_TIER4MITGATION.AD\01H1GALL.PLT 31  
PLOTFILE ANNUAL ALL 5200LONETREE\_CONSTRUCTION\_TIER4MITGATION.AD\AN00GALL.PLT 32  
SUMMFILE 5200LoneTree\_Construction\_TIER4MITGATION.sum

OU FINISHED  
\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\* C:\Lakes\AERMOD  
View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
\*\*\* AERMET - VERSION 14134 \*\*\* \*\*  
\*\*\* 11:32:22

PAGE 1  
\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN

\*\*\* MODEL SETUP OPTIONS SUMMARY

\*\*\*  
-----  
-----

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

```

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

**Model Uses URBAN Dispersion Algorithm for the SBL for      1 Source(s),
  for Total of      1 Urban Area(s):
  Urban Population =    111502.0 ; Urban Roughness Length =  1.000 m

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

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

**Model Assumes No FLAGPOLE Receptor Heights.

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

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

**This Run Includes:      1 Source(s);      1 Source Group(s); and      1574
Receptor(s)

      with:      0 POINT(s), including
                  0 POINTCAP(s) and      0 POINTHOR(s)
      and:      0 VOLUME source(s)
      and:      1 AREA type source(s)
      and:      0 LINE source(s)
      and:      0 RLINE/RLINEXT source(s)
      and:      0 OPENPIT source(s)
      and:      0 BUOYANT LINE source(s) with a total of      0 line(s)

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

**The AERMET Input Meteorological Data Version Date:  14134

**Output Options Selected:
  Model Outputs Tables of ANNUAL Averages by Receptor
  Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE

```

Keyword)

Model Outputs External File(s) of High Values for Plotting (PLOTFILE

Keyword)

Model Outputs Separate Summary File of High Ranked Values (SUMMFILE

Keyword)

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

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 125.00 ; Decay  
Coef. = 0.000 ; Rot. Angle = 0.0  
Emission Units = GRAMS/SEC ;  
Emission Rate Unit Factor = 0.10000E+07  
Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.7 MB of RAM.

\*\*Input Runstream File: aermod.inp

\*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: 5200LoneTree\_Construction\_TIER4MITGATION.err

\*\*File for Summary of Results: 5200LoneTree\_Construction\_TIER4MITGATION.sum

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
\*\*\* AERMET - VERSION 14134 \*\*\*  
\*\*\* 11:32:22

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

\*\*\* AREAPOLY SOURCE DATA \*\*\*

INIT.	URBAN	NUMBER	EMISSION	RATE	LOCATION	OF	AREA	BASE	RELEASE	NUMBER
SOURCE	SOURCE	EMISSION	RATE	(GRAMS/SEC	X	Y	ELEV.	HEIGHT	OF	VERTS.
SZ	SOURCE	SCALAR	VARY		(METERS)	(METERS)	(METERS)	(METERS)		
ID	CATS.	/METER**2)			(METERS)	(METERS)	(METERS)	(METERS)		
(METERS)	BY									

PAREA4 0 0.20497E-07 609290.4 4202285.2 41.0 3.10 4

0.00 YES

\*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
\*\*\* AERMET - VERSION 14134 \*\*\*  
\*\*\* 11:32:22

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

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID SOURCE IDs  
-----

ALL PAREA4 ,

\*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
\*\*\* AERMET - VERSION 14134 \*\*\*  
\*\*\* 11:32:22

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

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

\*\*\*

URBAN ID URBAN POP SOURCE IDs  
-----

111502. PAREA4 ,

\*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
\*\*\* AERMET - VERSION 14134 \*\*\*  
\*\*\* 11:32:22

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

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

( 609304.1, 4201857.7, 44.0, 66.0, 0.0); ( 609319.1,  
4201857.7, 43.7, 66.0, 0.0);  
( 609334.1, 4201857.7, 43.9, 66.0, 0.0); ( 609349.1,

4201857.7, 44.4, 66.0, 0.0);  
( 609364.1, 4201857.7, 44.6, 44.6, 0.0); ( 609379.1,  
4201857.7, 44.6, 44.6, 0.0);  
( 609394.1, 4201857.7, 44.6, 44.6, 0.0); ( 609259.1,  
4201872.7, 43.2, 66.0, 0.0);  
( 609304.1, 4201872.7, 43.2, 66.0, 0.0); ( 609319.1,  
4201872.7, 43.1, 66.0, 0.0);  
( 609334.1, 4201872.7, 43.4, 66.0, 0.0); ( 609349.1,  
4201872.7, 43.9, 43.9, 0.0);  
( 609364.1, 4201872.7, 44.1, 44.1, 0.0); ( 609379.1,  
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( 609394.1, 4201872.7, 44.1, 44.1, 0.0); ( 609409.1,  
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▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

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

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^ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

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



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^ *** AERMOD - VERSION 21112 ***      *** C:\Lakes\AERMOD
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*** AERMET - VERSION 14134 ***      ***
***      11:32:22

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(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)  
(METERS)

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 ( 609469.1, 4202022.7, 42.0, 42.0, 0.0); ( 609484.1,  
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 ( 609229.1, 4202037.7, 40.0, 40.0, 0.0); ( 609244.1,  
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▲ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\*  
 \*\*\* AERMET - VERSION 14134 \*\*\*

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

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

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( 609319.1, 4202037.7,	40.8,	40.8,	0.0);	( 609334.1,
4202037.7, 41.0, 41.0,	0.0);			
( 609349.1, 4202037.7,	41.0,	41.0,	0.0);	( 609394.1,
4202037.7, 41.0, 41.0,	0.0);			
( 609409.1, 4202037.7,	41.0,	41.0,	0.0);	( 609424.1,
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( 609439.1, 4202037.7,	41.5,	41.5,	0.0);	( 609454.1,
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( 609469.1, 4202037.7,	41.9,	41.9,	0.0);	( 609484.1,
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4202037.7, 42.0, 42.0,	0.0);			
( 609559.1, 4202037.7,	42.0,	42.0,	0.0);	( 609574.1,
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( 609589.1, 4202037.7,	42.0,	42.0,	0.0);	( 609604.1,
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( 609064.1, 4202052.7,	38.3,	77.0,	0.0);	( 609079.1,
4202052.7, 38.8, 77.0,	0.0);			
( 609094.1, 4202052.7,	38.9,	77.0,	0.0);	( 609109.1,
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( 609124.1, 4202052.7,	38.9,	77.0,	0.0);	( 609139.1,
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( 609214.1, 4202052.7,	40.0,	40.0,	0.0);	( 609229.1,
4202052.7, 40.0, 40.0,	0.0);			
( 609244.1, 4202052.7,	40.0,	40.0,	0.0);	( 609259.1,
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( 609274.1, 4202052.7,	40.0,	40.0,	0.0);	( 609289.1,

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▲ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\*  
 \*\*\* AERMET - VERSION 14134 \*\*\*

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

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

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( 609364.1, 4202067.7,	41.0,	41.0,	0.0);	( 609409.1,
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( 609574.1, 4202067.7,	41.6,	41.6,	0.0);	( 609589.1,
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( 609604.1, 4202067.7,	41.6,	41.6,	0.0);	( 609619.1,
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( 609214.1, 4202082.7,	40.3,	40.3,	0.0);	( 609229.1,

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 ( 609214.1, 4202097.7, 40.6, 40.6, 0.0); ( 609229.1,  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

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

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( 609304.1, 4202097.7, 41.0, 41.0, 0.0);	( 609319.1,
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( 609334.1, 4202097.7, 41.0, 41.0, 0.0);	( 609349.1,
4202097.7, 41.0, 41.0, 0.0);	
( 609364.1, 4202097.7, 41.0, 41.0, 0.0);	( 609409.1,
4202097.7, 41.0, 41.0, 0.0);	
( 609424.1, 4202097.7, 41.0, 41.0, 0.0);	( 609439.1,
4202097.7, 41.0, 41.0, 0.0);	
( 609454.1, 4202097.7, 41.0, 41.0, 0.0);	( 609469.1,
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( 609544.1, 4202097.7, 41.0, 41.0, 0.0);	( 609559.1,
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( 609574.1, 4202097.7, 41.0, 41.0, 0.0);	( 609589.1,
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( 609604.1, 4202097.7, 41.0, 41.0, 0.0);	( 609619.1,
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( 609634.1, 4202097.7, 41.0, 41.0, 0.0);	( 609649.1,
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( 609124.1, 4202112.7, 39.9, 77.0, 0.0);	( 609139.1,

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( 609154.1, 4202112.7, 40.0, 77.0, 0.0); ( 609169.1,  
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( 609184.1, 4202112.7, 40.3, 40.3, 0.0); ( 609199.1,  
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( 609214.1, 4202112.7, 40.9, 40.9, 0.0); ( 609229.1,  
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( 609364.1, 4202112.7, 41.0, 41.0, 0.0); ( 609379.1,  
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( 609409.1, 4202112.7, 41.0, 41.0, 0.0); ( 609424.1,  
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( 609439.1, 4202112.7, 41.0, 41.0, 0.0); ( 609454.1,  
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( 609469.1, 4202112.7, 41.0, 41.0, 0.0); ( 609484.1,  
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( 609559.1, 4202112.7, 41.0, 41.0, 0.0); ( 609574.1,  
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( 609589.1, 4202112.7, 41.0, 41.0, 0.0); ( 609604.1,  
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( 609049.1, 4202127.7, 40.0, 77.0, 0.0); ( 609064.1,  
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( 609109.1, 4202127.7, 40.0, 77.0, 0.0); ( 609124.1,  
4202127.7, 40.0, 77.0, 0.0);

\*\*\* AERMET - VERSION 14134 \*\*\*  
\*\*\* 11:32:22

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

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

( 609139.1, 4202127.7,	40.0,	77.0,	0.0);	( 609154.1,
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( 609169.1, 4202127.7,	40.3,	40.3,	0.0);	( 609184.1,
4202127.7, 40.6,	40.6,	0.0);		
( 609199.1, 4202127.7,	40.9,	40.9,	0.0);	( 609214.1,
4202127.7, 41.0,	41.0,	0.0);		
( 609229.1, 4202127.7,	41.0,	41.0,	0.0);	( 609244.1,
4202127.7, 41.0,	41.0,	0.0);		
( 609259.1, 4202127.7,	41.0,	41.0,	0.0);	( 609274.1,
4202127.7, 41.0,	41.0,	0.0);		
( 609289.1, 4202127.7,	41.0,	41.0,	0.0);	( 609304.1,
4202127.7, 41.0,	41.0,	0.0);		
( 609319.1, 4202127.7,	41.0,	41.0,	0.0);	( 609334.1,
4202127.7, 41.0,	41.0,	0.0);		
( 609349.1, 4202127.7,	41.0,	41.0,	0.0);	( 609364.1,
4202127.7, 41.0,	41.0,	0.0);		
( 609379.1, 4202127.7,	41.0,	41.0,	0.0);	( 609409.1,
4202127.7, 41.0,	41.0,	0.0);		
( 609424.1, 4202127.7,	41.0,	41.0,	0.0);	( 609439.1,
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( 609454.1, 4202127.7,	41.0,	41.0,	0.0);	( 609469.1,
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( 609484.1, 4202127.7,	41.0,	41.0,	0.0);	( 609499.1,
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( 609514.1, 4202127.7,	41.0,	41.0,	0.0);	( 609529.1,
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( 609544.1, 4202127.7,	41.0,	41.0,	0.0);	( 609559.1,
4202127.7, 41.0,	41.0,	0.0);		
( 609574.1, 4202127.7,	41.0,	41.0,	0.0);	( 609589.1,
4202127.7, 41.0,	41.0,	0.0);		
( 609604.1, 4202127.7,	41.0,	41.0,	0.0);	( 609619.1,
4202127.7, 41.0,	41.0,	0.0);		
( 609634.1, 4202127.7,	41.0,	41.0,	0.0);	( 609649.1,
4202127.7, 41.0,	41.0,	0.0);		
( 609664.1, 4202127.7,	41.0,	41.0,	0.0);	( 609679.1,
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( 609694.1, 4202127.7,	41.0,	41.0,	0.0);	( 609709.1,
4202127.7, 41.0,	41.0,	0.0);		
( 609724.1, 4202127.7,	41.0,	41.0,	0.0);	( 608974.1,

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( 609289.1, 4202142.7, 41.0, 41.0, 0.0); ( 609304.1,  
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( 609484.1, 4202142.7, 41.0, 41.0, 0.0); ( 609499.1,  
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( 609694.1, 4202142.7, 41.0, 41.0, 0.0); ( 609709.1,  
4202142.7, 41.0, 41.0, 0.0);  
( 609724.1, 4202142.7, 41.0, 41.0, 0.0); ( 608974.1,

4202157.7, 41.0, 77.0, 0.0);  
▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Lakes\AERMOD  
View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
\*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
\*\*\* 11:32:22

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

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

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( 609019.1, 4202157.7,	40.2,	77.0,	0.0);	( 609034.1,
4202157.7, 40.0,	77.0,	0.0);		
( 609049.1, 4202157.7,	40.0,	77.0,	0.0);	( 609064.1,
4202157.7, 40.0,	77.0,	0.0);		
( 609079.1, 4202157.7,	40.0,	77.0,	0.0);	( 609094.1,
4202157.7, 40.0,	77.0,	0.0);		
( 609109.1, 4202157.7,	40.0,	77.0,	0.0);	( 609124.1,
4202157.7, 40.0,	77.0,	0.0);		
( 609139.1, 4202157.7,	40.0,	77.0,	0.0);	( 609154.1,
4202157.7, 40.3,	40.3,	0.0);		
( 609169.1, 4202157.7,	40.8,	40.8,	0.0);	( 609184.1,
4202157.7, 41.0,	41.0,	0.0);		
( 609199.1, 4202157.7,	41.0,	41.0,	0.0);	( 609214.1,
4202157.7, 41.0,	41.0,	0.0);		
( 609229.1, 4202157.7,	41.0,	41.0,	0.0);	( 609244.1,
4202157.7, 41.0,	41.0,	0.0);		
( 609259.1, 4202157.7,	41.0,	41.0,	0.0);	( 609274.1,
4202157.7, 41.0,	41.0,	0.0);		
( 609289.1, 4202157.7,	41.0,	41.0,	0.0);	( 609304.1,
4202157.7, 41.0,	41.0,	0.0);		
( 609319.1, 4202157.7,	41.0,	41.0,	0.0);	( 609334.1,
4202157.7, 41.0,	41.0,	0.0);		
( 609349.1, 4202157.7,	41.0,	41.0,	0.0);	( 609364.1,
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( 609379.1, 4202157.7,	41.0,	41.0,	0.0);	( 609409.1,
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( 609424.1, 4202157.7,	40.7,	40.7,	0.0);	( 609439.1,
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( 609454.1, 4202157.7,	41.0,	41.0,	0.0);	( 609469.1,
4202157.7, 41.0,	41.0,	0.0);		
( 609484.1, 4202157.7,	41.0,	41.0,	0.0);	( 609499.1,
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( 609514.1, 4202157.7,	41.0,	41.0,	0.0);	( 609529.1,
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( 609694.1, 4202157.7, 41.0, 41.0, 0.0); ( 609709.1,  
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( 609094.1, 4202172.7, 40.0, 77.0, 0.0); ( 609109.1,  
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( 609124.1, 4202172.7, 40.0, 77.0, 0.0); ( 609139.1,  
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( 609154.1, 4202172.7, 40.3, 40.3, 0.0); ( 609169.1,  
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( 609274.1, 4202172.7, 41.0, 41.0, 0.0); ( 609289.1,  
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( 609334.1, 4202172.7, 41.0, 41.0, 0.0); ( 609349.1,  
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( 609364.1, 4202172.7, 41.0, 41.0, 0.0); ( 609379.1,  
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( 609409.1, 4202172.7, 40.2, 40.2, 0.0); ( 609424.1,  
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( 609559.1, 4202172.7, 41.0, 41.0, 0.0); ( 609574.1,  
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▲ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
\*\*\* AERMET - VERSION 14134 \*\*\*  
\*\*\* 11:32:22

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

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

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( 609649.1, 4202172.7, 41.0, 41.0, 0.0); ( 609664.1,  
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( 609679.1, 4202172.7, 41.0, 41.0, 0.0); ( 609694.1,  
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( 609709.1, 4202172.7, 41.0, 41.0, 0.0); ( 609724.1,  
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( 609109.1, 4202187.7, 40.0, 77.0, 0.0); ( 609124.1,  
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( 609139.1, 4202187.7, 40.0, 40.0, 0.0); ( 609154.1,  
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( 609169.1, 4202187.7, 40.8, 40.8, 0.0); ( 609184.1,  
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( 609259.1, 4202187.7, 41.0, 41.0, 0.0); ( 609274.1,  
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^ *** AERMOD - VERSION 21112 ***      *** C:\Lakes\AERMOD
View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel ***      10/28/21
*** AERMET - VERSION 14134 ***      ***
***      11:32:22

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

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

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▲ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
\*\*\* AERMET - VERSION 14134 \*\*\*  
\*\*\* 11:32:22

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

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

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▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Lakes\AERMOD  
View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
\*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
\*\*\* 11:32:22

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

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

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^ *** AERMOD - VERSION 21112 ***      *** C:\Lakes\AERMOD
View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel ***      10/28/21
*** AERMET - VERSION 14134 ***      ***
***      11:32:22

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

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

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▲ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
\*\*\* AERMET - VERSION 14134 \*\*\*  
\*\*\* 11:32:22

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

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

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\*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
 \*\*\* 11:32:22

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

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

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^ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

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

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\*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
 \*\*\* 11:32:22

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

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

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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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

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

10.80, 1.54, 3.09, 5.14, 8.23,

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^ *** AERMOD - VERSION 21112 ***   *** C:\Lakes\AERMOD
View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel ***   10/28/21
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***                               ***   11:32:22

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

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

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Surface file: C:\Users\kheck\Desktop\Met Data\Livermore_2009-2014\724927.SFC
Met Version: 14134
Profile file: C:\Users\kheck\Desktop\Met Data\Livermore_2009-2014\724927.PFL

```

Surface format: FREE

Profile format: FREE

```

Surface station no.: 23285           Upper air station no.: 23230
Name: UNKNOWN                       Name:

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OAKLAND/WSO\_AP

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Year: 2009                           Year: 2009

```

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN
ALBEDO	REF	WS	WD	HT	REF	TA	HT							
09	01	01	1	01	-12.6	0.221	-9.000	-9.000	-999.	250.	77.5	0.11	0.90	
1.00	2.86	51.	10.0	279.2	2.0									
09	01	01	1	02	-23.5	0.413	-9.000	-9.000	-999.	637.	269.8	0.11	0.90	
1.00	4.86	48.	10.0	279.2	2.0									
09	01	01	1	03	-11.1	0.195	-9.000	-9.000	-999.	254.	59.8	0.07	0.90	
1.00	2.86	94.	10.0	278.8	2.0									
09	01	01	1	04	-9.5	0.166	-9.000	-9.000	-999.	164.	43.7	0.11	0.90	

1.00	2.36	53.	10.0	278.1	2.0								
09	01	01	1	05	-11.1	0.195	-9.000	-9.000	-999.	206.	59.6	0.07	0.90
1.00	2.86	63.	10.0	278.1	2.0								
09	01	01	1	06	-8.2	0.143	-9.000	-9.000	-999.	131.	32.3	0.07	0.90
1.00	2.36	72.	10.0	278.1	2.0								
09	01	01	1	07	-8.2	0.143	-9.000	-9.000	-999.	130.	32.3	0.07	0.90
1.00	2.36	75.	10.0	278.1	2.0								
09	01	01	1	08	-4.1	0.078	-9.000	-9.000	-999.	53.	10.3	0.11	0.90
0.75	1.76	13.	10.0	277.5	2.0								
09	01	01	1	09	-6.3	0.246	-9.000	-9.000	-999.	292.	211.6	0.12	0.90
0.40	2.86	347.	10.0	278.1	2.0								
09	01	01	1	10	6.6	0.303	0.261	0.016	96.	401.	-378.3	0.11	0.90
0.27	3.36	51.	10.0	278.8	2.0								
09	01	01	1	11	15.4	0.317	0.422	0.017	176.	429.	-186.8	0.07	0.90
0.23	3.86	94.	10.0	279.9	2.0								
09	01	01	1	12	47.5	0.448	0.742	0.017	309.	720.	-170.5	0.11	0.90
0.22	4.86	56.	10.0	280.9	2.0								
09	01	01	1	13	49.0	0.405	0.820	0.014	403.	621.	-122.0	0.07	0.90
0.21	4.86	63.	10.0	281.4	2.0								
09	01	01	1	14	42.7	0.405	0.809	0.014	444.	619.	-139.5	0.11	0.90
0.22	4.36	59.	10.0	282.0	2.0								
09	01	01	1	15	60.8	0.372	0.922	0.014	463.	545.	-75.6	0.07	0.90
0.25	4.36	72.	10.0	281.4	2.0								
09	01	01	1	16	14.1	0.309	0.569	0.016	467.	414.	-187.5	0.11	0.90
0.34	3.36	54.	10.0	282.0	2.0								
09	01	01	1	17	-30.4	0.311	-9.000	-9.000	-999.	417.	89.1	0.07	0.90
0.58	4.36	61.	10.0	280.4	2.0								
09	01	01	1	18	-27.0	0.239	-9.000	-9.000	-999.	282.	45.2	0.11	0.90
1.00	3.36	47.	10.0	279.9	2.0								
09	01	01	1	19	-14.9	0.131	-9.000	-9.000	-999.	120.	13.7	0.07	0.90
1.00	2.86	64.	10.0	279.2	2.0								
09	01	01	1	20	-5.8	0.078	-9.000	-9.000	-999.	53.	7.3	0.11	0.90
1.00	1.76	47.	10.0	278.8	2.0								
09	01	01	1	21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	0.90
1.00	0.00	0.	10.0	277.5	2.0								
09	01	01	1	22	-4.9	0.070	-9.000	-9.000	-999.	44.	6.2	0.07	0.90
1.00	1.76	82.	10.0	276.4	2.0								
09	01	01	1	23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	0.90
1.00	0.00	0.	10.0	277.0	2.0								
09	01	01	1	24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	0.90
1.00	0.00	0.	10.0	277.0	2.0								

First hour of profile data

YR	MO	DY	HR	HEIGHT	F	WDIR	WSPD	AMB_TMP	sigmaA	sigmaW	sigmaV
09	01	01	01	10.0	1	51.	2.86	279.3	99.0	-99.00	-99.00

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

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD

View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\*

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

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5  
YEARS FOR SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): PAREA4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609304.09	4201857.70	0.00016	609319.09
4201857.70	0.00016		
609334.09	4201857.70	0.00016	609349.09
4201857.70	0.00016		
609364.09	4201857.70	0.00017	609379.09
4201857.70	0.00018		
609394.09	4201857.70	0.00020	609259.09
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609304.09	4201872.70	0.00017	609319.09
4201872.70	0.00017		
609334.09	4201872.70	0.00017	609349.09
4201872.70	0.00018		
609364.09	4201872.70	0.00019	609379.09
4201872.70	0.00020		
609394.09	4201872.70	0.00022	609409.09
4201872.70	0.00025		
609424.09	4201872.70	0.00028	609439.09
4201872.70	0.00031		
609454.09	4201872.70	0.00035	609199.09
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609214.09	4201887.70	0.00027	609229.09
4201887.70	0.00025		
609244.09	4201887.70	0.00023	609259.09
4201887.70	0.00022		
609274.09	4201887.70	0.00020	609304.09
4201887.70	0.00019		
609319.09	4201887.70	0.00019	609334.09
4201887.70	0.00019		
609349.09	4201887.70	0.00020	609364.09
4201887.70	0.00021		

609379.09	4201887.70	0.00022	609394.09
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4201887.70	0.00031		
609439.09	4201887.70	0.00035	609454.09
4201887.70	0.00040		
609469.09	4201887.70	0.00045	609484.09
4201887.70	0.00051		
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4201902.70	0.00021		
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4201902.70	0.00052		
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609514.09	4201902.70	0.00072	609529.09
4201902.70	0.00079		
609139.09	4201917.70	0.00053	609154.09
4201917.70	0.00049		
609169.09	4201917.70	0.00045	609184.09
4201917.70	0.00042		
609199.09	4201917.70	0.00038	609214.09
4201917.70	0.00035		
609229.09	4201917.70	0.00032	609244.09
4201917.70	0.00029		
609259.09	4201917.70	0.00027	609274.09
4201917.70	0.00025		
609289.09	4201917.70	0.00024	609319.09
4201917.70	0.00023		
609334.09	4201917.70	0.00023	609349.09
4201917.70	0.00024		
609364.09	4201917.70	0.00025	609379.09
4201917.70	0.00028		
609394.09	4201917.70	0.00031	609409.09
4201917.70	0.00035		

▲ \*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\*  
 \*\*\* AERMET - VERSION 14134 \*\*\*      \*\*\*  
    \*\*\*      11:32:22

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

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

INCLUDING SOURCE(S):      PAREA4      ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>    IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M) Y-COORD (M)	Y-COORD (M) CONC	CONC	X-COORD (M)
609424.09	4201917.70	0.00040	609439.09
4201917.70	0.00046		
609454.09	4201917.70	0.00053	609469.09
4201917.70	0.00060		
609484.09	4201917.70	0.00067	609499.09
4201917.70	0.00075		
609514.09	4201917.70	0.00083	609529.09
4201917.70	0.00091		
609544.09	4201917.70	0.00098	609109.09
4201932.70	0.00067		
609124.09	4201932.70	0.00064	609139.09
4201932.70	0.00060		
609154.09	4201932.70	0.00056	609169.09
4201932.70	0.00052		
609184.09	4201932.70	0.00048	609199.09
4201932.70	0.00044		
609214.09	4201932.70	0.00040	609229.09
4201932.70	0.00036		
609244.09	4201932.70	0.00033	609259.09
4201932.70	0.00030		
609274.09	4201932.70	0.00028	609289.09
4201932.70	0.00026		
609334.09	4201932.70	0.00025	609349.09
4201932.70	0.00026		
609364.09	4201932.70	0.00028	609379.09
4201932.70	0.00031		
609394.09	4201932.70	0.00035	609409.09
4201932.70	0.00040		

609424.09	4201932.70	0.00046	609439.09
4201932.70	0.00053		
609454.09	4201932.70	0.00061	609469.09
4201932.70	0.00069		
609484.09	4201932.70	0.00078	609499.09
4201932.70	0.00087		
609514.09	4201932.70	0.00096	609529.09
4201932.70	0.00104		
609544.09	4201932.70	0.00112	609559.09
4201932.70	0.00119		
609079.09	4201947.70	0.00083	609094.09
4201947.70	0.00080		
609109.09	4201947.70	0.00076	609124.09
4201947.70	0.00072		
609139.09	4201947.70	0.00068	609154.09
4201947.70	0.00064		
609169.09	4201947.70	0.00060	609184.09
4201947.70	0.00055		
609199.09	4201947.70	0.00050	609214.09
4201947.70	0.00045		
609229.09	4201947.70	0.00041	609244.09
4201947.70	0.00037		
609259.09	4201947.70	0.00034	609274.09
4201947.70	0.00031		
609289.09	4201947.70	0.00029	609304.09
4201947.70	0.00028		
609334.09	4201947.70	0.00028	609349.09
4201947.70	0.00029		
609364.09	4201947.70	0.00032	609379.09
4201947.70	0.00035		
609394.09	4201947.70	0.00040	609409.09
4201947.70	0.00046		
609424.09	4201947.70	0.00054	609439.09
4201947.70	0.00062		
609454.09	4201947.70	0.00071	609469.09
4201947.70	0.00081		
609484.09	4201947.70	0.00091	609499.09
4201947.70	0.00101		
609514.09	4201947.70	0.00111	609529.09
4201947.70	0.00120		
609544.09	4201947.70	0.00128	609559.09
4201947.70	0.00135		
609574.09	4201947.70	0.00141	609064.09
4201962.70	0.00096		
609079.09	4201962.70	0.00093	609094.09
4201962.70	0.00090		
609109.09	4201962.70	0.00086	609124.09
4201962.70	0.00083		
609139.09	4201962.70	0.00079	609154.09
4201962.70	0.00074		

609169.09 4201962.70 0.00069 609184.09  
 4201962.70 0.00064  
 \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
 \*\*\* 11:32:22

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

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5  
 YEARS FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREA4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609199.09	4201962.70	0.00058	609214.09
4201962.70	0.00053		
609229.09	4201962.70	0.00048	609244.09
4201962.70	0.00043		
609259.09	4201962.70	0.00039	609274.09
4201962.70	0.00036		
609289.09	4201962.70	0.00033	609304.09
4201962.70	0.00031		
609349.09	4201962.70	0.00033	609364.09
4201962.70	0.00036		
609379.09	4201962.70	0.00041	609394.09
4201962.70	0.00047		
609409.09	4201962.70	0.00054	609424.09
4201962.70	0.00063		
609439.09	4201962.70	0.00073	609454.09
4201962.70	0.00084		
609469.09	4201962.70	0.00096	609484.09
4201962.70	0.00107		
609499.09	4201962.70	0.00118	609514.09
4201962.70	0.00129		
609529.09	4201962.70	0.00138	609544.09
4201962.70	0.00147		
609559.09	4201962.70	0.00153	609574.09
4201962.70	0.00159		
609589.09	4201962.70	0.00163	609604.09
4201962.70	0.00166		

609049.09	4201977.70	0.00109	609064.09
4201977.70	0.00107		
609079.09	4201977.70	0.00105	609094.09
4201977.70	0.00102		
609109.09	4201977.70	0.00099	609124.09
4201977.70	0.00095		
609139.09	4201977.70	0.00091	609154.09
4201977.70	0.00086		
609169.09	4201977.70	0.00080	609184.09
4201977.70	0.00074		
609199.09	4201977.70	0.00068	609214.09
4201977.70	0.00062		
609229.09	4201977.70	0.00055	609244.09
4201977.70	0.00050		
609259.09	4201977.70	0.00045	609274.09
4201977.70	0.00041		
609289.09	4201977.70	0.00038	609304.09
4201977.70	0.00036		
609319.09	4201977.70	0.00035	609349.09
4201977.70	0.00037		
609364.09	4201977.70	0.00041	609379.09
4201977.70	0.00047		
609394.09	4201977.70	0.00055	609409.09
4201977.70	0.00064		
609424.09	4201977.70	0.00075	609439.09
4201977.70	0.00087		
609454.09	4201977.70	0.00100	609469.09
4201977.70	0.00113		
609484.09	4201977.70	0.00127	609499.09
4201977.70	0.00139		
609514.09	4201977.70	0.00150	609529.09
4201977.70	0.00160		
609544.09	4201977.70	0.00168	609559.09
4201977.70	0.00175		
609574.09	4201977.70	0.00179	609589.09
4201977.70	0.00183		
609604.09	4201977.70	0.00184	609619.09
4201977.70	0.00185		
609049.09	4201992.70	0.00120	609064.09
4201992.70	0.00119		
609079.09	4201992.70	0.00118	609094.09
4201992.70	0.00116		
609109.09	4201992.70	0.00113	609124.09
4201992.70	0.00109		
609139.09	4201992.70	0.00105	609154.09
4201992.70	0.00100		
609169.09	4201992.70	0.00093	609184.09
4201992.70	0.00087		
609199.09	4201992.70	0.00080	609214.09
4201992.70	0.00073		



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        609229.09    4201992.70    0.00065    609244.09
4201992.70    0.00058
        609259.09    4201992.70    0.00052    609274.09
4201992.70    0.00047

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^ *** AERMOD - VERSION 21112 ***    *** C:\Lakes\AERMOD
View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel ***    10/28/21
*** AERMET - VERSION 14134 ***    ***
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

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*** THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER    5
YEARS FOR SOURCE GROUP: ALL    ***
        INCLUDING SOURCE(S):    PAREA4    ,

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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
609289.09	4201992.70	0.00043	609304.09
4201992.70	0.00040		
609319.09	4201992.70	0.00039	609364.09
4201992.70	0.00048		
609379.09	4201992.70	0.00055	609394.09
4201992.70	0.00065		
609409.09	4201992.70	0.00076	609424.09
4201992.70	0.00090		
609439.09	4201992.70	0.00105	609454.09
4201992.70	0.00120		
609469.09	4201992.70	0.00136	609484.09
4201992.70	0.00151		
609499.09	4201992.70	0.00164	609514.09
4201992.70	0.00176		
609529.09	4201992.70	0.00186	609544.09
4201992.70	0.00193		
609559.09	4201992.70	0.00199	609574.09
4201992.70	0.00202		
609589.09	4201992.70	0.00204	609604.09
4201992.70	0.00204		
609619.09	4201992.70	0.00203	609634.09
4201992.70	0.00200		
609034.09	4202007.70	0.00134	609049.09
4202007.70	0.00134		

609064.09	4202007.70	0.00134	609079.09
4202007.70	0.00133		
609094.09	4202007.70	0.00131	609109.09
4202007.70	0.00129		
609124.09	4202007.70	0.00126	609139.09
4202007.70	0.00122		
609154.09	4202007.70	0.00117	609169.09
4202007.70	0.00110		
609184.09	4202007.70	0.00103	609199.09
4202007.70	0.00095		
609214.09	4202007.70	0.00087	609229.09
4202007.70	0.00078		
609244.09	4202007.70	0.00069	609259.09
4202007.70	0.00062		
609274.09	4202007.70	0.00055	609289.09
4202007.70	0.00050		
609304.09	4202007.70	0.00047	609319.09
4202007.70	0.00045		
609334.09	4202007.70	0.00046	609379.09
4202007.70	0.00065		
609394.09	4202007.70	0.00078	609409.09
4202007.70	0.00092		
609424.09	4202007.70	0.00109	609439.09
4202007.70	0.00127		
609454.09	4202007.70	0.00145	609469.09
4202007.70	0.00163		
609484.09	4202007.70	0.00180	609499.09
4202007.70	0.00194		
609514.09	4202007.70	0.00206	609529.09
4202007.70	0.00215		
609544.09	4202007.70	0.00222	609559.09
4202007.70	0.00226		
609574.09	4202007.70	0.00228	609589.09
4202007.70	0.00227		
609604.09	4202007.70	0.00225	609619.09
4202007.70	0.00222		
609634.09	4202007.70	0.00217	609649.09
4202007.70	0.00212		
609034.09	4202022.70	0.00147	609049.09
4202022.70	0.00148		
609064.09	4202022.70	0.00149	609079.09
4202022.70	0.00150		
609094.09	4202022.70	0.00149	609109.09
4202022.70	0.00147		
609124.09	4202022.70	0.00145	609139.09
4202022.70	0.00142		
609154.09	4202022.70	0.00137	609169.09
4202022.70	0.00130		
609184.09	4202022.70	0.00122	609199.09
4202022.70	0.00114		

609214.09	4202022.70	0.00104	609229.09
4202022.70	0.00094		
609244.09	4202022.70	0.00083	609259.09
4202022.70	0.00074		
609274.09	4202022.70	0.00065	609289.09
4202022.70	0.00059		

▲ \*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\*      10/28/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*      \*\*\*  
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\*\*\* MODELOPTs:      RegDEFAULT      CONC      ELEV      URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION      VALUES AVERAGED OVER      5  
 YEARS FOR SOURCE GROUP: ALL      \*\*\*  
                                  INCLUDING SOURCE(S):      PAREA4      ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>      IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
-----			
-----			
609304.09	4202022.70	0.00054	609319.09
4202022.70	0.00053		
609334.09	4202022.70	0.00054	609349.09
4202022.70	0.00058		
609379.09	4202022.70	0.00079	609394.09
4202022.70	0.00095		
609409.09	4202022.70	0.00113	609424.09
4202022.70	0.00134		
609439.09	4202022.70	0.00156	609454.09
4202022.70	0.00177		
609469.09	4202022.70	0.00197	609484.09
4202022.70	0.00215		
609499.09	4202022.70	0.00230	609514.09
4202022.70	0.00241		
609529.09	4202022.70	0.00249	609544.09
4202022.70	0.00254		
609559.09	4202022.70	0.00255	609574.09
4202022.70	0.00255		
609589.09	4202022.70	0.00252	609604.09
4202022.70	0.00247		
609619.09	4202022.70	0.00242	609634.09
4202022.70	0.00235		

609649.09	4202022.70	0.00228	609664.09
4202022.70	0.00220		
609019.09	4202037.70	0.00157	609034.09
4202037.70	0.00161		
609049.09	4202037.70	0.00163	609064.09
4202037.70	0.00166		
609079.09	4202037.70	0.00169	609094.09
4202037.70	0.00170		
609109.09	4202037.70	0.00169	609124.09
4202037.70	0.00168		
609139.09	4202037.70	0.00166	609154.09
4202037.70	0.00161		
609169.09	4202037.70	0.00155	609184.09
4202037.70	0.00147		
609199.09	4202037.70	0.00138	609214.09
4202037.70	0.00127		
609229.09	4202037.70	0.00114	609244.09
4202037.70	0.00102		
609259.09	4202037.70	0.00090	609274.09
4202037.70	0.00079		
609289.09	4202037.70	0.00070	609304.09
4202037.70	0.00064		
609319.09	4202037.70	0.00062	609334.09
4202037.70	0.00063		
609349.09	4202037.70	0.00069	609394.09
4202037.70	0.00117		
609409.09	4202037.70	0.00141	609424.09
4202037.70	0.00167		
609439.09	4202037.70	0.00193	609454.09
4202037.70	0.00218		
609469.09	4202037.70	0.00240	609484.09
4202037.70	0.00258		
609499.09	4202037.70	0.00272	609514.09
4202037.70	0.00282		
609529.09	4202037.70	0.00287	609544.09
4202037.70	0.00289		
609559.09	4202037.70	0.00288	609574.09
4202037.70	0.00284		
609589.09	4202037.70	0.00278	609604.09
4202037.70	0.00270		
609619.09	4202037.70	0.00262	609634.09
4202037.70	0.00253		
609649.09	4202037.70	0.00243	609664.09
4202037.70	0.00233		
609679.09	4202037.70	0.00223	609019.09
4202052.70	0.00170		
609034.09	4202052.70	0.00175	609049.09
4202052.70	0.00179		
609064.09	4202052.70	0.00184	609079.09
4202052.70	0.00189		

609094.09	4202052.70	0.00193	609109.09
4202052.70	0.00194		
609124.09	4202052.70	0.00195	609139.09
4202052.70	0.00193		
609154.09	4202052.70	0.00191	609169.09
4202052.70	0.00186		
609184.09	4202052.70	0.00178	609199.09
4202052.70	0.00168		

▲ \*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\*    10/28/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*    \*\*\*  
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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER    5  
 YEARS FOR SOURCE GROUP: ALL    \*\*\*  
                                  INCLUDING SOURCE(S):    PAREA4    ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>    IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609214.09	4202052.70	0.00155	609229.09
4202052.70	0.00141		
609244.09	4202052.70	0.00126	609259.09
4202052.70	0.00111		
609274.09	4202052.70	0.00097	609289.09
4202052.70	0.00086		
609304.09	4202052.70	0.00078	609319.09
4202052.70	0.00074		
609334.09	4202052.70	0.00076	609349.09
4202052.70	0.00084		
609364.09	4202052.70	0.00099	609394.09
4202052.70	0.00148		
609409.09	4202052.70	0.00179	609424.09
4202052.70	0.00211		
609439.09	4202052.70	0.00242	609454.09
4202052.70	0.00270		
609469.09	4202052.70	0.00293	609484.09
4202052.70	0.00310		
609499.09	4202052.70	0.00322	609514.09
4202052.70	0.00329		

609529.09	4202052.70	0.00330	609544.09
4202052.70	0.00328		
609559.09	4202052.70	0.00322	609574.09
4202052.70	0.00314		
609589.09	4202052.70	0.00305	609604.09
4202052.70	0.00294		
609619.09	4202052.70	0.00282	609634.09
4202052.70	0.00270		
609649.09	4202052.70	0.00258	609664.09
4202052.70	0.00246		
609679.09	4202052.70	0.00234	609694.09
4202052.70	0.00222		
609004.09	4202067.70	0.00174	609019.09
4202067.70	0.00182		
609034.09	4202067.70	0.00189	609049.09
4202067.70	0.00196		
609064.09	4202067.70	0.00203	609079.09
4202067.70	0.00210		
609094.09	4202067.70	0.00216	609109.09
4202067.70	0.00221		
609124.09	4202067.70	0.00224	609139.09
4202067.70	0.00226		
609154.09	4202067.70	0.00226	609169.09
4202067.70	0.00222		
609184.09	4202067.70	0.00216	609199.09
4202067.70	0.00206		
609214.09	4202067.70	0.00193	609229.09
4202067.70	0.00178		
609244.09	4202067.70	0.00160	609259.09
4202067.70	0.00141		
609274.09	4202067.70	0.00123	609289.09
4202067.70	0.00107		
609304.09	4202067.70	0.00096	609319.09
4202067.70	0.00091		
609334.09	4202067.70	0.00094	609349.09
4202067.70	0.00105		
609364.09	4202067.70	0.00126	609409.09
4202067.70	0.00230		
609424.09	4202067.70	0.00269	609439.09
4202067.70	0.00306		
609454.09	4202067.70	0.00336	609469.09
4202067.70	0.00359		
609484.09	4202067.70	0.00374	609499.09
4202067.70	0.00381		
609514.09	4202067.70	0.00383	609529.09
4202067.70	0.00379		
609544.09	4202067.70	0.00371	609559.09
4202067.70	0.00360		
609574.09	4202067.70	0.00346	609589.09
4202067.70	0.00332		

609604.09	4202067.70	0.00317	609619.09
4202067.70	0.00302		
609634.09	4202067.70	0.00286	609649.09
4202067.70	0.00272		
609664.09	4202067.70	0.00257	609679.09
4202067.70	0.00244		
609694.09	4202067.70	0.00231	609709.09
4202067.70	0.00218		
609004.09	4202082.70	0.00184	609019.09
4202082.70	0.00193		

^ \*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs:    RegDEFAULT    CONC    ELEV    URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER    5  
 YEARS FOR SOURCE GROUP: ALL    \*\*\*  
                                  INCLUDING SOURCE(S):    PAREA4    ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>    IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609034.09	4202082.70	0.00202	609049.09
4202082.70	0.00212		
609064.09	4202082.70	0.00222	609079.09
4202082.70	0.00232		
609094.09	4202082.70	0.00241	609109.09
4202082.70	0.00249		
609124.09	4202082.70	0.00257	609139.09
4202082.70	0.00263		
609154.09	4202082.70	0.00266	609169.09
4202082.70	0.00266		
609184.09	4202082.70	0.00262	609199.09
4202082.70	0.00254		
609214.09	4202082.70	0.00242	609229.09
4202082.70	0.00226		
609244.09	4202082.70	0.00206	609259.09
4202082.70	0.00183		
609274.09	4202082.70	0.00159	609289.09
4202082.70	0.00138		

609304.09	4202082.70	0.00122	609319.09
4202082.70	0.00115		
609334.09	4202082.70	0.00118	609349.09
4202082.70	0.00135		
609364.09	4202082.70	0.00164	609409.09
4202082.70	0.00301		
609424.09	4202082.70	0.00349	609439.09
4202082.70	0.00389		
609454.09	4202082.70	0.00420	609469.09
4202082.70	0.00439		
609484.09	4202082.70	0.00449	609499.09
4202082.70	0.00449		
609514.09	4202082.70	0.00443	609529.09
4202082.70	0.00431		
609544.09	4202082.70	0.00415	609559.09
4202082.70	0.00398		
609574.09	4202082.70	0.00378	609589.09
4202082.70	0.00359		
609604.09	4202082.70	0.00339	609619.09
4202082.70	0.00320		
609634.09	4202082.70	0.00302	609649.09
4202082.70	0.00284		
609664.09	4202082.70	0.00268	609679.09
4202082.70	0.00252		
609694.09	4202082.70	0.00238	609709.09
4202082.70	0.00224		
609004.09	4202097.70	0.00192	609019.09
4202097.70	0.00203		
609034.09	4202097.70	0.00215	609049.09
4202097.70	0.00228		
609064.09	4202097.70	0.00241	609079.09
4202097.70	0.00254		
609094.09	4202097.70	0.00267	609109.09
4202097.70	0.00279		
609124.09	4202097.70	0.00292	609139.09
4202097.70	0.00303		
609154.09	4202097.70	0.00312	609169.09
4202097.70	0.00317		
609184.09	4202097.70	0.00318	609199.09
4202097.70	0.00315		
609214.09	4202097.70	0.00306	609229.09
4202097.70	0.00291		
609244.09	4202097.70	0.00268	609259.09
4202097.70	0.00241		
609274.09	4202097.70	0.00211	609289.09
4202097.70	0.00182		
609304.09	4202097.70	0.00160	609319.09
4202097.70	0.00149		
609334.09	4202097.70	0.00155	609349.09
4202097.70	0.00179		



609364.09	4202097.70	0.00221	609409.09
4202097.70	0.00402		
609424.09	4202097.70	0.00457	609439.09
4202097.70	0.00499		
609454.09	4202097.70	0.00525	609469.09
4202097.70	0.00537		
609484.09	4202097.70	0.00536	609499.09
4202097.70	0.00525		
609514.09	4202097.70	0.00508	609529.09
4202097.70	0.00486		
609544.09	4202097.70	0.00461	609559.09
4202097.70	0.00435		

▲ \*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER    5  
 YEARS FOR SOURCE GROUP: ALL    \*\*\*  
                                  INCLUDING SOURCE(S):    PAREA4    ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>    IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609574.09	4202097.70	0.00410	609589.09
4202097.70	0.00384		
609604.09	4202097.70	0.00360	609619.09
4202097.70	0.00337		
609634.09	4202097.70	0.00316	609649.09
4202097.70	0.00296		
609664.09	4202097.70	0.00277	609679.09
4202097.70	0.00260		
609694.09	4202097.70	0.00244	609709.09
4202097.70	0.00229		
609724.09	4202097.70	0.00216	608989.09
4202112.70	0.00187		
609004.09	4202112.70	0.00199	609019.09
4202112.70	0.00213		
609034.09	4202112.70	0.00227	609049.09
4202112.70	0.00242		

609064.09	4202112.70	0.00258	609079.09
4202112.70	0.00275		
609094.09	4202112.70	0.00292	609109.09
4202112.70	0.00310		
609124.09	4202112.70	0.00328	609139.09
4202112.70	0.00345		
609154.09	4202112.70	0.00361	609169.09
4202112.70	0.00374		
609184.09	4202112.70	0.00385	609199.09
4202112.70	0.00391		
609214.09	4202112.70	0.00389	609229.09
4202112.70	0.00377		
609244.09	4202112.70	0.00355	609259.09
4202112.70	0.00324		
609274.09	4202112.70	0.00287	609289.09
4202112.70	0.00249		
609304.09	4202112.70	0.00218	609319.09
4202112.70	0.00203		
609334.09	4202112.70	0.00212	609349.09
4202112.70	0.00249		
609364.09	4202112.70	0.00310	609379.09
4202112.70	0.00387		
609409.09	4202112.70	0.00545	609424.09
4202112.70	0.00605		
609439.09	4202112.70	0.00642	609454.09
4202112.70	0.00656		
609469.09	4202112.70	0.00653	609484.09
4202112.70	0.00635		
609499.09	4202112.70	0.00608	609514.09
4202112.70	0.00576		
609529.09	4202112.70	0.00541	609544.09
4202112.70	0.00506		
609559.09	4202112.70	0.00472	609574.09
4202112.70	0.00439		
609589.09	4202112.70	0.00408	609604.09
4202112.70	0.00379		
609619.09	4202112.70	0.00352	609634.09
4202112.70	0.00328		
609649.09	4202112.70	0.00305	609664.09
4202112.70	0.00285		
609679.09	4202112.70	0.00266	609694.09
4202112.70	0.00249		
609709.09	4202112.70	0.00233	609724.09
4202112.70	0.00218		
608989.09	4202127.70	0.00191	609004.09
4202127.70	0.00205		
609019.09	4202127.70	0.00219	609034.09
4202127.70	0.00235		
609049.09	4202127.70	0.00252	609064.09
4202127.70	0.00271		

609079.09	4202127.70	0.00292	609094.09
4202127.70	0.00314		
609109.09	4202127.70	0.00337	609124.09
4202127.70	0.00362		
609139.09	4202127.70	0.00387	609154.09
4202127.70	0.00413		
609169.09	4202127.70	0.00438	609184.09
4202127.70	0.00462		
609199.09	4202127.70	0.00481	609214.09
4202127.70	0.00492		
609229.09	4202127.70	0.00491	609244.09
4202127.70	0.00477		
609259.09	4202127.70	0.00446	609274.09
4202127.70	0.00403		

▲ \*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER    5  
 YEARS FOR SOURCE GROUP: ALL    \*\*\*  
                                  INCLUDING SOURCE(S):    PAREA4    ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>    IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609289.09	4202127.70	0.00353	609304.09
4202127.70	0.00311		
609319.09	4202127.70	0.00292	609334.09
4202127.70	0.00309		
609349.09	4202127.70	0.00366	609364.09
4202127.70	0.00454		
609379.09	4202127.70	0.00559	609409.09
4202127.70	0.00752		
609424.09	4202127.70	0.00807	609439.09
4202127.70	0.00826		
609454.09	4202127.70	0.00816	609469.09
4202127.70	0.00786		
609484.09	4202127.70	0.00744	609499.09
4202127.70	0.00695		

609514.09	4202127.70	0.00645	609529.09
4202127.70	0.00596		
609544.09	4202127.70	0.00549	609559.09
4202127.70	0.00505		
609574.09	4202127.70	0.00465	609589.09
4202127.70	0.00428		
609604.09	4202127.70	0.00395	609619.09
4202127.70	0.00364		
609634.09	4202127.70	0.00337	609649.09
4202127.70	0.00312		
609664.09	4202127.70	0.00290	609679.09
4202127.70	0.00270		
609694.09	4202127.70	0.00252	609709.09
4202127.70	0.00235		
609724.09	4202127.70	0.00220	608974.09
4202142.70	0.00180		
608989.09	4202142.70	0.00193	609004.09
4202142.70	0.00207		
609019.09	4202142.70	0.00222	609034.09
4202142.70	0.00240		
609049.09	4202142.70	0.00259	609064.09
4202142.70	0.00281		
609079.09	4202142.70	0.00305	609094.09
4202142.70	0.00331		
609109.09	4202142.70	0.00360	609124.09
4202142.70	0.00391		
609139.09	4202142.70	0.00425	609154.09
4202142.70	0.00463		
609169.09	4202142.70	0.00504	609184.09
4202142.70	0.00544		
609199.09	4202142.70	0.00582	609214.09
4202142.70	0.00615		
609229.09	4202142.70	0.00637	609244.09
4202142.70	0.00644		
609259.09	4202142.70	0.00626	609274.09
4202142.70	0.00584		
609289.09	4202142.70	0.00523	609304.09
4202142.70	0.00469		
609319.09	4202142.70	0.00452	609334.09
4202142.70	0.00490		
609349.09	4202142.70	0.00576	609364.09
4202142.70	0.00699		
609379.09	4202142.70	0.00838	609409.09
4202142.70	0.01055		
609424.09	4202142.70	0.01082	609439.09
4202142.70	0.01058		
609454.09	4202142.70	0.01003	609469.09
4202142.70	0.00933		
609484.09	4202142.70	0.00857	609499.09
4202142.70	0.00782		

609514.09	4202142.70	0.00711	609529.09
4202142.70	0.00646		
609544.09	4202142.70	0.00587	609559.09
4202142.70	0.00534		
609574.09	4202142.70	0.00487	609589.09
4202142.70	0.00444		
609604.09	4202142.70	0.00407	609619.09
4202142.70	0.00373		
609634.09	4202142.70	0.00344	609649.09
4202142.70	0.00317		
609664.09	4202142.70	0.00293	609679.09
4202142.70	0.00272		
609694.09	4202142.70	0.00253	609709.09
4202142.70	0.00236		
609724.09	4202142.70	0.00220	608974.09
4202157.70	0.00178		

^ \*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER    5  
 YEARS FOR SOURCE GROUP: ALL    \*\*\*  
                                  INCLUDING SOURCE(S):    PAREA4    ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>    IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
608989.09	4202157.70	0.00191	609004.09
4202157.70	0.00206		
609019.09	4202157.70	0.00222	609034.09
4202157.70	0.00240		
609049.09	4202157.70	0.00261	609064.09
4202157.70	0.00285		
609079.09	4202157.70	0.00311	609094.09
4202157.70	0.00341		
609109.09	4202157.70	0.00375	609124.09
4202157.70	0.00413		
609139.09	4202157.70	0.00456	609154.09
4202157.70	0.00505		

609169.09	4202157.70	0.00562	609184.09
4202157.70	0.00622		
609199.09	4202157.70	0.00685	609214.09
4202157.70	0.00751		
609229.09	4202157.70	0.00813	609244.09
4202157.70	0.00864		
609259.09	4202157.70	0.00889	609274.09
4202157.70	0.00871		
609289.09	4202157.70	0.00810	609304.09
4202157.70	0.00755		
609319.09	4202157.70	0.00772	609334.09
4202157.70	0.00861		
609349.09	4202157.70	0.00987	609364.09
4202157.70	0.01139		
609379.09	4202157.70	0.01308	609409.09
4202157.70	0.01489		
609424.09	4202157.70	0.01438	609439.09
4202157.70	0.01334		
609454.09	4202157.70	0.01209	609469.09
4202157.70	0.01084		
609484.09	4202157.70	0.00967	609499.09
4202157.70	0.00863		
609514.09	4202157.70	0.00770	609529.09
4202157.70	0.00688		
609544.09	4202157.70	0.00618	609559.09
4202157.70	0.00556		
609574.09	4202157.70	0.00502	609589.09
4202157.70	0.00456		
609604.09	4202157.70	0.00415	609619.09
4202157.70	0.00379		
609634.09	4202157.70	0.00347	609649.09
4202157.70	0.00319		
609664.09	4202157.70	0.00294	609679.09
4202157.70	0.00272		
609694.09	4202157.70	0.00253	609709.09
4202157.70	0.00235		
609724.09	4202157.70	0.00219	608959.09
4202172.70	0.00160		
608974.09	4202172.70	0.00172	608989.09
4202172.70	0.00186		
609004.09	4202172.70	0.00201	609019.09
4202172.70	0.00217		
609034.09	4202172.70	0.00236	609049.09
4202172.70	0.00258		
609064.09	4202172.70	0.00282	609079.09
4202172.70	0.00310		
609094.09	4202172.70	0.00343	609109.09
4202172.70	0.00380		
609124.09	4202172.70	0.00423	609139.09
4202172.70	0.00472		

609154.09	4202172.70	0.00532	609169.09
4202172.70	0.00603		
609184.09	4202172.70	0.00683	609199.09
4202172.70	0.00774		
609214.09	4202172.70	0.00878	609229.09
4202172.70	0.00996		
609244.09	4202172.70	0.01124	609259.09
4202172.70	0.01247		
609274.09	4202172.70	0.01327	609289.09
4202172.70	0.01309		
609304.09	4202172.70	0.01312	609319.09
4202172.70	0.01490		
609334.09	4202172.70	0.01701	609349.09
4202172.70	0.01866		
609364.09	4202172.70	0.01997	609379.09
4202172.70	0.02151		
609409.09	4202172.70	0.02090	609424.09
4202172.70	0.01865		

^ \*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\*    10/28/21  
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\*\*\* MODELOPTs:    RegDEFAULT CONC ELEV URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER    5  
 YEARS FOR SOURCE GROUP: ALL    \*\*\*  
    INCLUDING SOURCE(S):    PAREA4    ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>    IN MICROGRAMS/M\*\*3

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X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609439.09	4202172.70	0.01634	609454.09
4202172.70	0.01415		
609469.09	4202172.70	0.01225	609484.09
4202172.70	0.01064		
609499.09	4202172.70	0.00929	609514.09
4202172.70	0.00815		
609529.09	4202172.70	0.00720	609544.09
4202172.70	0.00639		
609559.09	4202172.70	0.00570	609574.09
4202172.70	0.00511		

609589.09	4202172.70	0.00461	609604.09
4202172.70	0.00418		
609619.09	4202172.70	0.00380	609634.09
4202172.70	0.00347		
609649.09	4202172.70	0.00318	609664.09
4202172.70	0.00293		
609679.09	4202172.70	0.00270	609694.09
4202172.70	0.00251		
609709.09	4202172.70	0.00233	609724.09
4202172.70	0.00217		
608959.09	4202187.70	0.00152	608974.09
4202187.70	0.00164		
608989.09	4202187.70	0.00177	609004.09
4202187.70	0.00191		
609019.09	4202187.70	0.00208	609034.09
4202187.70	0.00226		
609049.09	4202187.70	0.00247	609064.09
4202187.70	0.00272		
609079.09	4202187.70	0.00300	609094.09
4202187.70	0.00333		
609109.09	4202187.70	0.00372	609124.09
4202187.70	0.00417		
609139.09	4202187.70	0.00471	609154.09
4202187.70	0.00537		
609169.09	4202187.70	0.00618	609184.09
4202187.70	0.00713		
609199.09	4202187.70	0.00826	609214.09
4202187.70	0.00965		
609229.09	4202187.70	0.01136	609244.09
4202187.70	0.01349		
609259.09	4202187.70	0.01617	609274.09
4202187.70	0.01930		
609409.09	4202187.70	0.02826	609424.09
4202187.70	0.02302		
609439.09	4202187.70	0.01902	609454.09
4202187.70	0.01586		
609469.09	4202187.70	0.01336	609484.09
4202187.70	0.01135		
609499.09	4202187.70	0.00974	609514.09
4202187.70	0.00843		
609529.09	4202187.70	0.00736	609544.09
4202187.70	0.00648		
609559.09	4202187.70	0.00575	609574.09
4202187.70	0.00513		
609589.09	4202187.70	0.00460	609604.09
4202187.70	0.00416		
609619.09	4202187.70	0.00377	609634.09
4202187.70	0.00343		
609649.09	4202187.70	0.00314	609664.09
4202187.70	0.00289		



609679.09	4202187.70	0.00267	609694.09
4202187.70	0.00247		
609709.09	4202187.70	0.00229	609724.09
4202187.70	0.00213		
608959.09	4202202.70	0.00141	608974.09
4202202.70	0.00152		
608989.09	4202202.70	0.00164	609004.09
4202202.70	0.00178		
609019.09	4202202.70	0.00194	609034.09
4202202.70	0.00211		
609049.09	4202202.70	0.00231	609064.09
4202202.70	0.00254		
609079.09	4202202.70	0.00281	609094.09
4202202.70	0.00313		
609109.09	4202202.70	0.00351	609124.09
4202202.70	0.00395		
609139.09	4202202.70	0.00449	609154.09
4202202.70	0.00516		
609169.09	4202202.70	0.00600	609184.09
4202202.70	0.00701		

▲ \*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs:    RegDEFAULT    CONC    ELEV    URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER    5  
 YEARS FOR SOURCE GROUP: ALL    \*\*\*  
                                  INCLUDING SOURCE(S):    PAREA4    ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>    IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609199.09	4202202.70	0.00825	609214.09
4202202.70	0.00983		
609229.09	4202202.70	0.01185	609244.09
4202202.70	0.01449		
609259.09	4202202.70	0.01800	609274.09
4202202.70	0.02242		
609409.09	4202202.70	0.03429	609424.09
4202202.70	0.02633		

609439.09	4202202.70	0.02083	609454.09
4202202.70	0.01693		
609469.09	4202202.70	0.01400	609484.09
4202202.70	0.01171		
609499.09	4202202.70	0.00992	609514.09
4202202.70	0.00850		
609529.09	4202202.70	0.00737	609544.09
4202202.70	0.00645		
609559.09	4202202.70	0.00569	609574.09
4202202.70	0.00506		
609589.09	4202202.70	0.00453	609604.09
4202202.70	0.00408		
609619.09	4202202.70	0.00370	609634.09
4202202.70	0.00336		
609649.09	4202202.70	0.00307	609664.09
4202202.70	0.00282		
609679.09	4202202.70	0.00261	609694.09
4202202.70	0.00241		
609709.09	4202202.70	0.00224	609724.09
4202202.70	0.00208		
608959.09	4202217.70	0.00128	608974.09
4202217.70	0.00138		
608989.09	4202217.70	0.00149	609004.09
4202217.70	0.00161		
609019.09	4202217.70	0.00175	609034.09
4202217.70	0.00191		
609049.09	4202217.70	0.00209	609064.09
4202217.70	0.00230		
609079.09	4202217.70	0.00255	609094.09
4202217.70	0.00283		
609109.09	4202217.70	0.00318	609124.09
4202217.70	0.00358		
609139.09	4202217.70	0.00408	609154.09
4202217.70	0.00471		
609169.09	4202217.70	0.00550	609184.09
4202217.70	0.00648		
609199.09	4202217.70	0.00771	609214.09
4202217.70	0.00929		
609229.09	4202217.70	0.01137	609244.09
4202217.70	0.01415		
609259.09	4202217.70	0.01789	609274.09
4202217.70	0.02263		
609484.09	4202217.70	0.01164	609499.09
4202217.70	0.00980		
609514.09	4202217.70	0.00836	609529.09
4202217.70	0.00721		
609544.09	4202217.70	0.00629	609559.09
4202217.70	0.00554		
609574.09	4202217.70	0.00492	609589.09
4202217.70	0.00440		

609604.09	4202217.70	0.00396	609619.09
4202217.70	0.00359		
609634.09	4202217.70	0.00326	609649.09
4202217.70	0.00298		
609664.09	4202217.70	0.00274	609679.09
4202217.70	0.00253		
609694.09	4202217.70	0.00234	609709.09
4202217.70	0.00217		
609724.09	4202217.70	0.00202	608959.09
4202232.70	0.00113		
608974.09	4202232.70	0.00122	608989.09
4202232.70	0.00131		
609004.09	4202232.70	0.00142	609019.09
4202232.70	0.00154		
609034.09	4202232.70	0.00168	609049.09
4202232.70	0.00184		
609064.09	4202232.70	0.00202	609079.09
4202232.70	0.00222		
609094.09	4202232.70	0.00246	609109.09
4202232.70	0.00276		
609124.09	4202232.70	0.00311	609139.09
4202232.70	0.00353		

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    \*\*\*    11:32:22

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

\*\*\* THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER    5  
 YEARS FOR SOURCE GROUP: ALL    \*\*\*  
    INCLUDING SOURCE(S):    PAREA4    ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>    IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609154.09	4202232.70	0.00407	609169.09
4202232.70	0.00477		
609184.09	4202232.70	0.00562	609199.09
4202232.70	0.00672		
609214.09	4202232.70	0.00818	609229.09
4202232.70	0.01015		

609244.09	4202232.70	0.01286	609259.09
4202232.70	0.01664		
609274.09	4202232.70	0.02161	609424.09
4202232.70	0.02811		
609439.09	4202232.70	0.02137	609454.09
4202232.70	0.01677		
609469.09	4202232.70	0.01352	609484.09
4202232.70	0.01118		
609499.09	4202232.70	0.00941	609514.09
4202232.70	0.00801		
609529.09	4202232.70	0.00691	609544.09
4202232.70	0.00603		
609559.09	4202232.70	0.00531	609574.09
4202232.70	0.00472		
609589.09	4202232.70	0.00422	609604.09
4202232.70	0.00380		
609619.09	4202232.70	0.00344	609634.09
4202232.70	0.00313		
609649.09	4202232.70	0.00286	609664.09
4202232.70	0.00263		
609679.09	4202232.70	0.00243	609694.09
4202232.70	0.00225		
609709.09	4202232.70	0.00209	609724.09
4202232.70	0.00195		
608959.09	4202247.70	0.00099	608974.09
4202247.70	0.00106		
608989.09	4202247.70	0.00114	609004.09
4202247.70	0.00122		
609019.09	4202247.70	0.00132	609034.09
4202247.70	0.00143		
609049.09	4202247.70	0.00156	609064.09
4202247.70	0.00171		
609079.09	4202247.70	0.00187	609094.09
4202247.70	0.00206		
609109.09	4202247.70	0.00229	609124.09
4202247.70	0.00257		
609139.09	4202247.70	0.00291	609154.09
4202247.70	0.00333		
609169.09	4202247.70	0.00387	609184.09
4202247.70	0.00456		
609199.09	4202247.70	0.00546	609214.09
4202247.70	0.00667		
609229.09	4202247.70	0.00835	609244.09
4202247.70	0.01078		
609259.09	4202247.70	0.01437	609274.09
4202247.70	0.01937		
609424.09	4202247.70	0.02656	609439.09
4202247.70	0.02004		
609454.09	4202247.70	0.01567	609469.09
4202247.70	0.01261		

609484.09	4202247.70	0.01042	609499.09
4202247.70	0.00878		
609514.09	4202247.70	0.00749	609529.09
4202247.70	0.00648		
609544.09	4202247.70	0.00567	609559.09
4202247.70	0.00501		
609574.09	4202247.70	0.00446	609589.09
4202247.70	0.00400		
609604.09	4202247.70	0.00361	609619.09
4202247.70	0.00327		
609634.09	4202247.70	0.00298	609649.09
4202247.70	0.00273		
609664.09	4202247.70	0.00252	609679.09
4202247.70	0.00233		
609694.09	4202247.70	0.00216	609709.09
4202247.70	0.00201		
609724.09	4202247.70	0.00188	608959.09
4202262.70	0.00084		
608974.09	4202262.70	0.00090	608989.09
4202262.70	0.00096		
609004.09	4202262.70	0.00103	609019.09
4202262.70	0.00111		
609034.09	4202262.70	0.00119	609049.09
4202262.70	0.00129		

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

\*\*\* THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER    5  
 YEARS FOR SOURCE GROUP: ALL    \*\*\*  
                                  INCLUDING SOURCE(S):    PAREA4    ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609064.09	4202262.70	0.00140	609079.09
4202262.70	0.00152		
609094.09	4202262.70	0.00167	609109.09
4202262.70	0.00184		

609124.09	4202262.70	0.00204	609139.09
4202262.70	0.00229		
609154.09	4202262.70	0.00258	609169.09
4202262.70	0.00296		
609184.09	4202262.70	0.00345	609199.09
4202262.70	0.00410		
609214.09	4202262.70	0.00497	609229.09
4202262.70	0.00619		
609244.09	4202262.70	0.00802	609259.09
4202262.70	0.01092		
609274.09	4202262.70	0.01539	609424.09
4202262.70	0.02352		
609439.09	4202262.70	0.01787	609454.09
4202262.70	0.01408		
609469.09	4202262.70	0.01142	609484.09
4202262.70	0.00947		
609499.09	4202262.70	0.00801	609514.09
4202262.70	0.00687		
609529.09	4202262.70	0.00597	609544.09
4202262.70	0.00525		
609559.09	4202262.70	0.00467	609574.09
4202262.70	0.00417		
609589.09	4202262.70	0.00375	609604.09
4202262.70	0.00339		
609619.09	4202262.70	0.00308	609634.09
4202262.70	0.00282		
609649.09	4202262.70	0.00259	609664.09
4202262.70	0.00239		
609679.09	4202262.70	0.00221	609694.09
4202262.70	0.00206		
609709.09	4202262.70	0.00192	609724.09
4202262.70	0.00179		
609424.09	4202277.70	0.01950	609439.09
4202277.70	0.01523		
609454.09	4202277.70	0.01225	609469.09
4202277.70	0.01009		
609484.09	4202277.70	0.00846	609499.09
4202277.70	0.00722		
609514.09	4202277.70	0.00624	609529.09
4202277.70	0.00546		
609544.09	4202277.70	0.00483	609559.09
4202277.70	0.00431		
609574.09	4202277.70	0.00386	609589.09
4202277.70	0.00349		
609604.09	4202277.70	0.00317	609619.09
4202277.70	0.00289		
609634.09	4202277.70	0.00265	609649.09
4202277.70	0.00244		
609664.09	4202277.70	0.00226	609679.09
4202277.70	0.00209		

609694.09	4202277.70	0.00195	609709.09
4202277.70	0.00182		
609724.09	4202277.70	0.00171	609409.09
4202322.70	0.01083		
609424.09	4202322.70	0.00974	609439.09
4202322.70	0.00860		
609454.09	4202322.70	0.00755	609469.09
4202322.70	0.00663		
609484.09	4202322.70	0.00584	609499.09
4202322.70	0.00517		
609514.09	4202322.70	0.00459	609529.09
4202322.70	0.00411		
609544.09	4202322.70	0.00369	609559.09
4202322.70	0.00334		
609574.09	4202322.70	0.00304	609589.09
4202322.70	0.00277		
609604.09	4202322.70	0.00255	609619.09
4202322.70	0.00235		
609634.09	4202322.70	0.00217	609649.09
4202322.70	0.00201		
609664.09	4202322.70	0.00188	609679.09
4202322.70	0.00175		
609694.09	4202322.70	0.00164	609409.09
4202337.70	0.00843		
609424.09	4202337.70	0.00786	609439.09
4202337.70	0.00717		

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

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

INCLUDING SOURCE(S):    PAREA4    ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>    IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
-----	-----	-----	-----
609454.09	4202337.70	0.00647	609469.09
4202337.70	0.00579		

609484.09	4202337.70	0.00518	609499.09
4202337.70	0.00464		
609514.09	4202337.70	0.00417	609529.09
4202337.70	0.00376		
609544.09	4202337.70	0.00340	609559.09
4202337.70	0.00309		
609574.09	4202337.70	0.00282	609589.09
4202337.70	0.00258		
609604.09	4202337.70	0.00238	609619.09
4202337.70	0.00220		
609634.09	4202337.70	0.00203	609649.09
4202337.70	0.00189		
609664.09	4202337.70	0.00176	609679.09
4202337.70	0.00165		
609694.09	4202337.70	0.00155	609709.09
4202337.70	0.00146		
609724.09	4202337.70	0.00138	609409.09
4202352.70	0.00669		
609424.09	4202352.70	0.00642	609439.09
4202352.70	0.00601		
609454.09	4202352.70	0.00555	609469.09
4202352.70	0.00507		
609484.09	4202352.70	0.00461	609499.09
4202352.70	0.00419		
609514.09	4202352.70	0.00380	609529.09
4202352.70	0.00345		
609544.09	4202352.70	0.00315	609559.09
4202352.70	0.00287		
609574.09	4202352.70	0.00263	609589.09
4202352.70	0.00242		
609604.09	4202352.70	0.00223	609619.09
4202352.70	0.00207		
609634.09	4202352.70	0.00191	609649.09
4202352.70	0.00178		
609664.09	4202352.70	0.00166	609679.09
4202352.70	0.00156		
609694.09	4202352.70	0.00146	609709.09
4202352.70	0.00138		
609724.09	4202352.70	0.00131	609409.09
4202367.70	0.00541		
609424.09	4202367.70	0.00529	609439.09
4202367.70	0.00507		
609454.09	4202367.70	0.00477	609469.09
4202367.70	0.00444		
609484.09	4202367.70	0.00411	609499.09
4202367.70	0.00378		
609514.09	4202367.70	0.00347	609529.09
4202367.70	0.00318		
609544.09	4202367.70	0.00292	609559.09
4202367.70	0.00268		



609574.09	4202367.70	0.00246	609589.09
4202367.70	0.00227		
609604.09	4202367.70	0.00210	609619.09
4202367.70	0.00195		
609634.09	4202367.70	0.00181	609649.09
4202367.70	0.00168		
609664.09	4202367.70	0.00158	609679.09
4202367.70	0.00148		
609694.09	4202367.70	0.00139	609709.09
4202367.70	0.00131		
609724.09	4202367.70	0.00124	609394.09
4202382.70	0.00435		
609409.09	4202382.70	0.00444	609424.09
4202382.70	0.00441		
609439.09	4202382.70	0.00430	609454.09
4202382.70	0.00412		
609469.09	4202382.70	0.00390	609484.09
4202382.70	0.00365		
609499.09	4202382.70	0.00341	609514.09
4202382.70	0.00316		
609529.09	4202382.70	0.00293	609544.09
4202382.70	0.00271		
609559.09	4202382.70	0.00250	609574.09
4202382.70	0.00231		
609589.09	4202382.70	0.00213	609604.09
4202382.70	0.00198		
609619.09	4202382.70	0.00184	609634.09
4202382.70	0.00172		

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

\*\*\* THE ANNUAL AVERAGE CONCENTRATION      VALUES AVERAGED OVER      5  
 YEARS FOR SOURCE GROUP: ALL      \*\*\*  
                                  INCLUDING SOURCE(S):      PAREA4      ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>      IN MICROGRAMS/M\*\*3

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

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609649.09	4202382.70	0.00160	609664.09
4202382.70	0.00150		
609679.09	4202382.70	0.00141	609694.09
4202382.70	0.00133		
609709.09	4202382.70	0.00125	609724.09
4202382.70	0.00119		
609394.09	4202397.70	0.00359	609409.09
4202397.70	0.00370		
609424.09	4202397.70	0.00372	609439.09
4202397.70	0.00367		
609454.09	4202397.70	0.00356	609469.09
4202397.70	0.00342		
609484.09	4202397.70	0.00325	609499.09
4202397.70	0.00307		
609514.09	4202397.70	0.00288	609529.09
4202397.70	0.00269		
609544.09	4202397.70	0.00251	609559.09
4202397.70	0.00233		
609574.09	4202397.70	0.00217	609589.09
4202397.70	0.00201		
609604.09	4202397.70	0.00188	609619.09
4202397.70	0.00175		
609634.09	4202397.70	0.00164	609649.09
4202397.70	0.00153		
609664.09	4202397.70	0.00144	609679.09
4202397.70	0.00135		
609694.09	4202397.70	0.00127	609709.09
4202397.70	0.00120		
609724.09	4202397.70	0.00114	609394.09
4202412.70	0.00301		
609409.09	4202412.70	0.00312	609424.09
4202412.70	0.00316		
609439.09	4202412.70	0.00315	609454.09
4202412.70	0.00310		
609469.09	4202412.70	0.00301	609484.09
4202412.70	0.00289		
609499.09	4202412.70	0.00276	609514.09
4202412.70	0.00262		
609529.09	4202412.70	0.00247	609544.09
4202412.70	0.00232		
609559.09	4202412.70	0.00217	609574.09
4202412.70	0.00203		
609589.09	4202412.70	0.00190	609604.09
4202412.70	0.00178		
609619.09	4202412.70	0.00167	609634.09
4202412.70	0.00156		
609649.09	4202412.70	0.00147	609664.09
4202412.70	0.00138		
609679.09	4202412.70	0.00130	609694.09
4202412.70	0.00122		

609709.09	4202412.70	0.00115	609724.09
4202412.70	0.00109		
609394.09	4202427.70	0.00256	609409.09
4202427.70	0.00266		
609424.09	4202427.70	0.00272	609439.09
4202427.70	0.00273		
609454.09	4202427.70	0.00271	609469.09
4202427.70	0.00265		
609484.09	4202427.70	0.00257	609499.09
4202427.70	0.00248		
609514.09	4202427.70	0.00238	609529.09
4202427.70	0.00226		
609544.09	4202427.70	0.00214	609559.09
4202427.70	0.00202		
609574.09	4202427.70	0.00191	609589.09
4202427.70	0.00179		
609604.09	4202427.70	0.00169	609619.09
4202427.70	0.00159		
609634.09	4202427.70	0.00149	609649.09
4202427.70	0.00141		
609664.09	4202427.70	0.00132	609679.09
4202427.70	0.00125		
609694.09	4202427.70	0.00118	609709.09
4202427.70	0.00111		
609724.09	4202427.70	0.00105	609439.09
4202472.70	0.00185		
609454.09	4202472.70	0.00187	609469.09
4202472.70	0.00187		
609484.09	4202472.70	0.00185	609499.09
4202472.70	0.00182		

▲ \*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION      VALUES AVERAGED OVER      5  
 YEARS FOR SOURCE GROUP: ALL      \*\*\*  
                                  INCLUDING SOURCE(S):      PAREA4      ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>      IN MICROGRAMS/M<sup>3</sup>

\*\*

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

609514.09	4202472.70	0.00178	609529.09
4202472.70	0.00173		
609544.09	4202472.70	0.00168	609559.09
4202472.70	0.00162		
609574.09	4202472.70	0.00156	609589.09
4202472.70	0.00149		
609604.09	4202472.70	0.00143	609619.09
4202472.70	0.00136		
609634.09	4202472.70	0.00130	609649.09
4202472.70	0.00123		
609664.09	4202472.70	0.00117	609679.09
4202472.70	0.00112		
609694.09	4202472.70	0.00106	609319.09
4202487.70	0.00099		
609334.09	4202487.70	0.00110	609349.09
4202487.70	0.00121		
609364.09	4202487.70	0.00132	609394.09
4202487.70	0.00150		
609409.09	4202487.70	0.00157	609424.09
4202487.70	0.00162		
609439.09	4202487.70	0.00166	609454.09
4202487.70	0.00167		
609469.09	4202487.70	0.00168	609484.09
4202487.70	0.00167		
609499.09	4202487.70	0.00165	609514.09
4202487.70	0.00162		
609529.09	4202487.70	0.00158	609544.09
4202487.70	0.00154		
609559.09	4202487.70	0.00150	609574.09
4202487.70	0.00145		
609589.09	4202487.70	0.00140	609604.09
4202487.70	0.00134		
609619.09	4202487.70	0.00129	609634.09
4202487.70	0.00123		
609649.09	4202487.70	0.00118	609664.09
4202487.70	0.00113		
609679.09	4202487.70	0.00107	609184.09
4202502.70	0.00035		
609199.09	4202502.70	0.00038	609214.09
4202502.70	0.00041		
609229.09	4202502.70	0.00046	609244.09
4202502.70	0.00051		
609259.09	4202502.70	0.00057	609274.09
4202502.70	0.00064		
609289.09	4202502.70	0.00072	609304.09
4202502.70	0.00080		
609319.09	4202502.70	0.00090	609334.09
4202502.70	0.00099		

609349.09	4202502.70	0.00109	609364.09
4202502.70	0.00118		
609394.09	4202502.70	0.00134	609409.09
4202502.70	0.00140		
609424.09	4202502.70	0.00145	609439.09
4202502.70	0.00149		
609454.09	4202502.70	0.00151	609469.09
4202502.70	0.00151		
609484.09	4202502.70	0.00151	609499.09
4202502.70	0.00150		
609514.09	4202502.70	0.00148	609529.09
4202502.70	0.00145		
609544.09	4202502.70	0.00142	609559.09
4202502.70	0.00139		
609574.09	4202502.70	0.00135	609589.09
4202502.70	0.00131		
609604.09	4202502.70	0.00126	609619.09
4202502.70	0.00122		
609634.09	4202502.70	0.00117	609649.09
4202502.70	0.00113		
609664.09	4202502.70	0.00108	609064.09
4202517.70	0.00019		
609079.09	4202517.70	0.00020	609094.09
4202517.70	0.00021		
609109.09	4202517.70	0.00023	609124.09
4202517.70	0.00024		
609139.09	4202517.70	0.00026	609154.09
4202517.70	0.00028		
609169.09	4202517.70	0.00030	609184.09
4202517.70	0.00033		
609199.09	4202517.70	0.00036	609214.09
4202517.70	0.00039		

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

\*\*\* THE ANNUAL AVERAGE CONCENTRATION      VALUES AVERAGED OVER      5  
 YEARS FOR SOURCE GROUP: ALL      \*\*\*  
                                  INCLUDING SOURCE(S):      PAREA4      ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>      IN MICROGRAMS/M<sup>3</sup>

\*\*

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	CONC	X-COORD (M)
4202517.70	609229.09	4202517.70	0.00047	0.00043	609244.09
4202517.70	609259.09	4202517.70	0.00059	0.00053	609274.09
4202517.70	609289.09	4202517.70	0.00073	0.00066	609304.09
4202517.70	609319.09	4202517.70	0.00090	0.00081	609334.09
4202517.70	609349.09	4202517.70	0.00106	0.00098	609364.09
4202517.70	609409.09	4202517.70	0.00131	0.00126	609424.09
4202517.70	609439.09	4202517.70	0.00136	0.00134	609454.09
4202517.70	609469.09	4202517.70	0.00137	0.00137	609484.09
4202517.70	609499.09	4202517.70	0.00135	0.00136	609514.09
4202517.70	609529.09	4202517.70	0.00131	0.00133	609544.09
4202517.70	609559.09	4202517.70	0.00125	0.00128	609574.09
4202517.70	609589.09	4202517.70	0.00118	0.00122	609604.09
4202517.70	609619.09	4202517.70	0.00111	0.00115	609634.09
4202532.70	609649.09	4202517.70	0.00019	0.00107	609079.09
4202532.70	609094.09	4202532.70	0.00022	0.00020	609109.09
4202532.70	609124.09	4202532.70	0.00025	0.00023	609139.09
4202532.70	609154.09	4202532.70	0.00029	0.00027	609169.09
4202532.70	609184.09	4202532.70	0.00034	0.00031	609199.09
4202532.70	609214.09	4202532.70	0.00040	0.00037	609229.09
4202532.70	609244.09	4202532.70	0.00049	0.00044	609259.09
4202532.70	609274.09	4202532.70	0.00061	0.00055	609289.09
4202532.70	609304.09	4202532.70	0.00074	0.00067	609319.09
4202532.70	609334.09	4202532.70	0.00089	0.00082	609349.09

609364.09	4202532.70	0.00096	609409.09
4202532.70	0.00114		
609424.09	4202532.70	0.00118	609439.09
4202532.70	0.00121		
609454.09	4202532.70	0.00123	609469.09
4202532.70	0.00124		
609484.09	4202532.70	0.00125	609499.09
4202532.70	0.00125		
609514.09	4202532.70	0.00124	609529.09
4202532.70	0.00123		
609544.09	4202532.70	0.00121	609559.09
4202532.70	0.00119		
609574.09	4202532.70	0.00116	609589.09
4202532.70	0.00114		
609604.09	4202532.70	0.00111	609619.09
4202532.70	0.00108		
609094.09	4202547.70	0.00020	609109.09
4202547.70	0.00021		
609124.09	4202547.70	0.00023	609139.09
4202547.70	0.00024		
609154.09	4202547.70	0.00026	609169.09
4202547.70	0.00028		
609184.09	4202547.70	0.00030	609199.09
4202547.70	0.00032		
609214.09	4202547.70	0.00035	609229.09
4202547.70	0.00038		
609244.09	4202547.70	0.00042	609259.09
4202547.70	0.00046		
609274.09	4202547.70	0.00051	609289.09
4202547.70	0.00056		
609304.09	4202547.70	0.00062	609319.09
4202547.70	0.00068		
609334.09	4202547.70	0.00075	609349.09
4202547.70	0.00081		

▲ \*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\*      10/28/21  
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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION      VALUES AVERAGED OVER      5  
 YEARS FOR SOURCE GROUP: ALL      \*\*\*  
                                  INCLUDING SOURCE(S):      PAREA4      ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>      IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609364.09	4202547.70	0.00087	609409.09
4202547.70	0.00103		
609424.09	4202547.70	0.00107	609439.09
4202547.70	0.00110		
609454.09	4202547.70	0.00112	609469.09
4202547.70	0.00114		
609484.09	4202547.70	0.00114	609499.09
4202547.70	0.00114		
609514.09	4202547.70	0.00114	609529.09
4202547.70	0.00113		
609544.09	4202547.70	0.00112	609559.09
4202547.70	0.00110		
609574.09	4202547.70	0.00108	609589.09
4202547.70	0.00106		
609109.09	4202562.70	0.00020	609124.09
4202562.70	0.00022		
609139.09	4202562.70	0.00023	609154.09
4202562.70	0.00025		
609169.09	4202562.70	0.00026	609184.09
4202562.70	0.00028		
609199.09	4202562.70	0.00031	609214.09
4202562.70	0.00033		
609229.09	4202562.70	0.00036	609244.09
4202562.70	0.00040		
609259.09	4202562.70	0.00043	609274.09
4202562.70	0.00048		
609289.09	4202562.70	0.00053	609304.09
4202562.70	0.00058		
609319.09	4202562.70	0.00063	609334.09
4202562.70	0.00068		
609349.09	4202562.70	0.00074	609364.09
4202562.70	0.00079		
609409.09	4202562.70	0.00094	609424.09
4202562.70	0.00098		
609439.09	4202562.70	0.00101	609454.09
4202562.70	0.00103		
609469.09	4202562.70	0.00104	609484.09
4202562.70	0.00105		
609499.09	4202562.70	0.00105	609514.09
4202562.70	0.00105		
609529.09	4202562.70	0.00105	609544.09
4202562.70	0.00104		
609559.09	4202562.70	0.00103	609574.09
4202562.70	0.00101		



609124.09	4202577.70	0.00021	609139.09
4202577.70	0.00022		
609154.09	4202577.70	0.00024	609169.09
4202577.70	0.00025		
609184.09	4202577.70	0.00027	609199.09
4202577.70	0.00029		
609214.09	4202577.70	0.00031	609229.09
4202577.70	0.00034		
609244.09	4202577.70	0.00037	609259.09
4202577.70	0.00041		
609274.09	4202577.70	0.00045	609289.09
4202577.70	0.00049		
609304.09	4202577.70	0.00054	609319.09
4202577.70	0.00058		
609334.09	4202577.70	0.00063	609349.09
4202577.70	0.00068		
609364.09	4202577.70	0.00073	609409.09
4202577.70	0.00086		
609424.09	4202577.70	0.00089	609439.09
4202577.70	0.00092		
609454.09	4202577.70	0.00094	609469.09
4202577.70	0.00096		
609484.09	4202577.70	0.00097	609499.09
4202577.70	0.00097		
609514.09	4202577.70	0.00097	609529.09
4202577.70	0.00097		
609544.09	4202577.70	0.00096	609139.09
4202592.70	0.00021		
609154.09	4202592.70	0.00023	609169.09
4202592.70	0.00024		
609184.09	4202592.70	0.00026	609199.09
4202592.70	0.00028		
609214.09	4202592.70	0.00030	609229.09
4202592.70	0.00032		
609244.09	4202592.70	0.00035	609259.09
4202592.70	0.00039		

▲ \*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\*      10/28/21  
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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION      VALUES AVERAGED OVER      5  
 YEARS FOR SOURCE GROUP: ALL      \*\*\*  
                                  INCLUDING SOURCE(S):      PAREA4      ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609274.09	4202592.70	0.00042	609289.09
4202592.70	0.00046		
609304.09	4202592.70	0.00050	609319.09
4202592.70	0.00054		
609334.09	4202592.70	0.00059	609349.09
4202592.70	0.00063		
609364.09	4202592.70	0.00067	609409.09
4202592.70	0.00079		
609424.09	4202592.70	0.00082	609439.09
4202592.70	0.00085		
609454.09	4202592.70	0.00087	609469.09
4202592.70	0.00088		
609484.09	4202592.70	0.00089	609499.09
4202592.70	0.00090		
609514.09	4202592.70	0.00090	609529.09
4202592.70	0.00090		
609169.09	4202607.70	0.00023	609184.09
4202607.70	0.00025		
609199.09	4202607.70	0.00026	609214.09
4202607.70	0.00029		
609229.09	4202607.70	0.00031	609244.09
4202607.70	0.00034		
609259.09	4202607.70	0.00037	609274.09
4202607.70	0.00040		
609289.09	4202607.70	0.00043	609304.09
4202607.70	0.00047		
609319.09	4202607.70	0.00051	609334.09
4202607.70	0.00054		
609349.09	4202607.70	0.00058	609364.09
4202607.70	0.00062		
609409.09	4202607.70	0.00073	609424.09
4202607.70	0.00076		
609439.09	4202607.70	0.00078	609454.09
4202607.70	0.00080		
609469.09	4202607.70	0.00082	609484.09
4202607.70	0.00083		
609499.09	4202607.70	0.00083	609199.09
4202622.70	0.00025		
609214.09	4202622.70	0.00027	609229.09
4202622.70	0.00029		
609244.09	4202622.70	0.00032	609259.09
4202622.70	0.00035		

609274.09	4202622.70	0.00038	609289.09
4202622.70	0.00041		
609304.09	4202622.70	0.00044	609319.09
4202622.70	0.00047		
609334.09	4202622.70	0.00051	609349.09
4202622.70	0.00054		
609364.09	4202622.70	0.00058	609409.09
4202622.70	0.00067		
609424.09	4202622.70	0.00070	609439.09
4202622.70	0.00072		
609454.09	4202622.70	0.00074	609469.09
4202622.70	0.00076		

^ \*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\*    10/28/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*    \*\*\*  
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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL    \*\*\*  
                                  INCLUDING SOURCE(S):    PAREA4    ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>    IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609304.09	4201857.70	0.04673	(12020204)	609319.09
4201857.70	0.04545	(12020204)		
609334.09	4201857.70	0.04583	(12010420)	609349.09
4201857.70	0.04698	(09012323)		
609364.09	4201857.70	0.04690	(09012323)	609379.09
4201857.70	0.04490	(12123104)		
609394.09	4201857.70	0.04506	(09012120)	609259.09
4201872.70	0.04957	(10010720)		
609304.09	4201872.70	0.04916	(12020204)	609319.09
4201872.70	0.04799	(12020204)		
609334.09	4201872.70	0.04822	(12010420)	609349.09
4201872.70	0.04947	(09012323)		
609364.09	4201872.70	0.04922	(09012323)	609379.09
4201872.70	0.04730	(12123104)		
609394.09	4201872.70	0.04785	(09012120)	609409.09
4201872.70	0.04873	(09012120)		

609424.09	4201872.70	0.04720	(10021118)	609439.09
4201872.70	0.04740	(12012619)		
609454.09	4201872.70	0.04618	(09122003)	609199.09
4201887.70	0.04803	(09123119)		
609214.09	4201887.70	0.04901	(10010301)	609229.09
4201887.70	0.04988	(09012222)		
609244.09	4201887.70	0.05183	(09012222)	609259.09
4201887.70	0.05203	(10010720)		
609274.09	4201887.70	0.05155	(10010720)	609304.09
4201887.70	0.05175	(12020204)		
609319.09	4201887.70	0.05075	(12020204)	609334.09
4201887.70	0.05082	(12010420)		
609349.09	4201887.70	0.05218	(09012323)	609364.09
4201887.70	0.05173	(09012323)		
609379.09	4201887.70	0.04988	(12123104)	609394.09
4201887.70	0.05081	(09012120)		
609409.09	4201887.70	0.05110	(09012120)	609424.09
4201887.70	0.04938	(10021118)		
609439.09	4201887.70	0.04977	(12012619)	609454.09
4201887.70	0.04879	(09122003)		
609469.09	4201887.70	0.04813	(12120619)	609484.09
4201887.70	0.04767	(12120619)		
609499.09	4201887.70	0.04700	(10121002)	609169.09
4201902.70	0.04861	(12020820)		
609184.09	4201902.70	0.04949	(09123119)	609199.09
4201902.70	0.05094	(09123119)		
609214.09	4201902.70	0.05160	(10010301)	609229.09
4201902.70	0.05142	(09012222)		
609244.09	4201902.70	0.05446	(09012222)	609259.09
4201902.70	0.05452	(10010720)		
609274.09	4201902.70	0.05477	(10010720)	609319.09
4201902.70	0.05374	(12020204)		
609334.09	4201902.70	0.05365	(12010420)	609349.09
4201902.70	0.05513	(09012323)		
609364.09	4201902.70	0.05444	(09012323)	609379.09
4201902.70	0.05264	(12123104)		
609394.09	4201902.70	0.05393	(09012120)	609409.09
4201902.70	0.05353	(09012120)		
609424.09	4201902.70	0.05239	(12012619)	609439.09
4201902.70	0.05206	(12012619)		
609454.09	4201902.70	0.05129	(09122003)	609469.09
4201902.70	0.05098	(12120619)		
609484.09	4201902.70	0.04967	(10121002)	609499.09
4201902.70	0.04902	(10121002)		
609514.09	4201902.70	0.04673	(10012503)	609529.09
4201902.70	0.04651	(09022304)		
609139.09	4201917.70	0.04902	(10011607)	609154.09
4201917.70	0.05049	(11010301)		
609169.09	4201917.70	0.05074	(12020820)	609184.09
4201917.70	0.05167	(09121706)		

609199.09	4201917.70	0.05351	(09123119)	609214.09
4201917.70	0.05388	(10010301)		
609229.09	4201917.70	0.05446	(10010301)	609244.09
4201917.70	0.05699	(09012222)		
609259.09	4201917.70	0.05754	(09012222)	609274.09
4201917.70	0.05815	(10010720)		
609289.09	4201917.70	0.05518	(10010720)	609319.09
4201917.70	0.05700	(12020204)		
609334.09	4201917.70	0.05674	(12010420)	609349.09
4201917.70	0.05834	(09012323)		
609364.09	4201917.70	0.05737	(09012323)	609379.09
4201917.70	0.05559	(12123104)		
609394.09	4201917.70	0.05728	(09012120)	609409.09
4201917.70	0.05608	(09012120)		

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

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

INCLUDING SOURCE(S): PAREA4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609424.09	4201917.70	0.05569	(12012619)	609439.09
4201917.70	0.05431	(12012619)		
609454.09	4201917.70	0.05364	(09122003)	609469.09
4201917.70	0.05356	(12120619)		
609484.09	4201917.70	0.05259	(10121002)	609499.09
4201917.70	0.05080	(10012503)		
609514.09	4201917.70	0.04892	(09022304)	609529.09
4201917.70	0.04898	(09022304)		
609544.09	4201917.70	0.04749	(11011324)	609109.09
4201932.70	0.04812	(10122508)		
609124.09	4201932.70	0.04831	(09013019)	609139.09
4201932.70	0.05065	(10011607)		
609154.09	4201932.70	0.05232	(11010301)	609169.09
4201932.70	0.05354	(11010301)		

609184.09	4201932.70	0.05435	(12020820)	609199.09
4201932.70	0.05563	(09123119)		
609214.09	4201932.70	0.05686	(09123119)	609229.09
4201932.70	0.05777	(10010301)		
609244.09	4201932.70	0.05929	(09012222)	609259.09
4201932.70	0.06117	(09012222)		
609274.09	4201932.70	0.06168	(10010720)	609289.09
4201932.70	0.05932	(10010720)		
609334.09	4201932.70	0.06014	(12010420)	609349.09
4201932.70	0.06186	(09012323)		
609364.09	4201932.70	0.06055	(09012323)	609379.09
4201932.70	0.05876	(12123104)		
609394.09	4201932.70	0.06081	(09012120)	609409.09
4201932.70	0.05898	(10021118)		
609424.09	4201932.70	0.05905	(12012619)	609439.09
4201932.70	0.05778	(09122003)		
609454.09	4201932.70	0.05713	(12120619)	609469.09
4201932.70	0.05581	(12120619)		
609484.09	4201932.70	0.05509	(10121002)	609499.09
4201932.70	0.05234	(10012503)		
609514.09	4201932.70	0.05225	(09022304)	609529.09
4201932.70	0.05109	(11011324)		
609544.09	4201932.70	0.04900	(09120624)	609559.09
4201932.70	0.04734	(10011219)		
609079.09	4201947.70	0.04713	(09010524)	609094.09
4201947.70	0.04910	(10121905)		
609109.09	4201947.70	0.04961	(12021405)	609124.09
4201947.70	0.05120	(10122508)		
609139.09	4201947.70	0.05197	(09013019)	609154.09
4201947.70	0.05468	(10011607)		
609169.09	4201947.70	0.05657	(11010301)	609184.09
4201947.70	0.05696	(12020820)		
609199.09	4201947.70	0.05810	(09121706)	609214.09
4201947.70	0.06027	(09123119)		
609229.09	4201947.70	0.06101	(10010301)	609244.09
4201947.70	0.06146	(09012222)		
609259.09	4201947.70	0.06474	(09012222)	609274.09
4201947.70	0.06527	(10010720)		
609289.09	4201947.70	0.06377	(10010720)	609304.09
4201947.70	0.06423	(12020204)		
609334.09	4201947.70	0.06387	(12010420)	609349.09
4201947.70	0.06571	(09012323)		
609364.09	4201947.70	0.06399	(09012323)	609379.09
4201947.70	0.06285	(09012120)		
609394.09	4201947.70	0.06450	(09012120)	609409.09
4201947.70	0.06230	(10021118)		
609424.09	4201947.70	0.06237	(12012619)	609439.09
4201947.70	0.06108	(09122003)		
609454.09	4201947.70	0.06059	(12120619)	609469.09
4201947.70	0.05929	(10121002)		

609484.09	4201947.70	0.05727	(10012503)	609499.09
4201947.70	0.05541	(09022304)		
609514.09	4201947.70	0.05493	(09022304)	609529.09
4201947.70	0.05276	(11011324)		
609544.09	4201947.70	0.05048	(09120624)	609559.09
4201947.70	0.05037	(10011219)		
609574.09	4201947.70	0.04851	(10011219)	609064.09
4201962.70	0.04764	(10120519)		
609079.09	4201962.70	0.04917	(10020602)	609094.09
4201962.70	0.05021	(10121905)		
609109.09	4201962.70	0.05220	(10121905)	609124.09
4201962.70	0.05328	(10122508)		
609139.09	4201962.70	0.05473	(10122508)	609154.09
4201962.70	0.05650	(10011607)		
609169.09	4201962.70	0.05895	(10011607)	609184.09
4201962.70	0.06069	(11010301)		

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREA4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609199.09	4201962.70	0.06155	(12020820)	609214.09
4201962.70	0.06332	(09123119)		
609229.09	4201962.70	0.06412	(09123119)	609244.09
4201962.70	0.06515	(10010301)		
609259.09	4201962.70	0.06826	(09012222)	609274.09
4201962.70	0.06893	(10010720)		
609289.09	4201962.70	0.06854	(10010720)	609304.09
4201962.70	0.06802	(12020204)		
609349.09	4201962.70	0.06994	(09012323)	609364.09
4201962.70	0.06775	(09012323)		
609379.09	4201962.70	0.06757	(09012120)	609394.09
4201962.70	0.06837	(09012120)		

609409.09	4201962.70	0.06677	(12012619)	609424.09
4201962.70	0.06560	(12012619)		
609439.09	4201962.70	0.06446	(12120619)	609454.09
4201962.70	0.06370	(12120619)		
609469.09	4201962.70	0.06252	(10121002)	609484.09
4201962.70	0.05921	(10012503)		
609499.09	4201962.70	0.05918	(09022304)	609514.09
4201962.70	0.05740	(11011324)		
609529.09	4201962.70	0.05482	(09120624)	609544.09
4201962.70	0.05394	(10011219)		
609559.09	4201962.70	0.05234	(10011219)	609574.09
4201962.70	0.04993	(11123024)		
609589.09	4201962.70	0.04869	(11123024)	609604.09
4201962.70	0.04655	(09010206)		
609049.09	4201977.70	0.04744	(09020508)	609064.09
4201977.70	0.04858	(09123118)		
609079.09	4201977.70	0.05081	(10120519)	609094.09
4201977.70	0.05246	(10020602)		
609109.09	4201977.70	0.05384	(10121905)	609124.09
4201977.70	0.05605	(10121905)		
609139.09	4201977.70	0.05774	(10122508)	609154.09
4201977.70	0.05860	(10122508)		
609169.09	4201977.70	0.06172	(10011607)	609184.09
4201977.70	0.06406	(11010301)		
609199.09	4201977.70	0.06478	(12020820)	609214.09
4201977.70	0.06621	(09121706)		
609229.09	4201977.70	0.06871	(09123119)	609244.09
4201977.70	0.06970	(10010301)		
609259.09	4201977.70	0.07184	(09012222)	609274.09
4201977.70	0.07305	(09012222)		
609289.09	4201977.70	0.07354	(10010720)	609304.09
4201977.70	0.07208	(12020204)		
609319.09	4201977.70	0.07351	(12020204)	609349.09
4201977.70	0.07462	(09012323)		
609364.09	4201977.70	0.07186	(09012323)	609379.09
4201977.70	0.07271	(09012120)		
609394.09	4201977.70	0.07245	(09012120)	609409.09
4201977.70	0.07151	(12012619)		
609424.09	4201977.70	0.06993	(09122003)	609439.09
4201977.70	0.06920	(12120619)		
609454.09	4201977.70	0.06764	(10121002)	609469.09
4201977.70	0.06534	(10012503)		
609484.09	4201977.70	0.06345	(09022304)	609499.09
4201977.70	0.06231	(11011324)		
609514.09	4201977.70	0.05954	(09120624)	609529.09
4201977.70	0.05786	(10011219)		
609544.09	4201977.70	0.05666	(10011219)	609559.09
4201977.70	0.05360	(11123024)		
609574.09	4201977.70	0.05241	(11123024)	609589.09
4201977.70	0.05001	(09010206)		



609604.09	4201977.70	0.04681	(13022722)	609619.09
4201977.70	0.04630	(13012505)		
609049.09	4201992.70	0.04868	(10020603)	609064.09
4201992.70	0.05045	(09020508)		
609079.09	4201992.70	0.05193	(09123118)	609094.09
4201992.70	0.05434	(10120519)		
609109.09	4201992.70	0.05625	(10020602)	609124.09
4201992.70	0.05837	(10121905)		
609139.09	4201992.70	0.06057	(10121905)	609154.09
4201992.70	0.06254	(10122508)		
609169.09	4201992.70	0.06363	(09013019)	609184.09
4201992.70	0.06707	(10011607)		
609199.09	4201992.70	0.06944	(11010301)	609214.09
4201992.70	0.07057	(12020820)		
609229.09	4201992.70	0.07291	(09123119)	609244.09
4201992.70	0.07407	(10010301)		
609259.09	4201992.70	0.07533	(09012222)	609274.09
4201992.70	0.07833	(09012222)		

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREA4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609289.09	4201992.70	0.07878	(10010720)	609304.09
4201992.70	0.07643	(12020204)		
609319.09	4201992.70	0.07875	(12020204)	609364.09
4201992.70	0.07643	(12123104)		
609379.09	4201992.70	0.07827	(09012120)	609394.09
4201992.70	0.07668	(09012120)		
609409.09	4201992.70	0.07634	(12012619)	609424.09
4201992.70	0.07451	(09122003)		
609439.09	4201992.70	0.07364	(12120619)	609454.09
4201992.70	0.07195	(10121002)		

609469.09	4201992.70	0.06790	(10012503)	609484.09
4201992.70	0.06782	(09022304)		
609499.09	4201992.70	0.06503	(11011324)	609514.09
4201992.70	0.06213	(10011219)		
609529.09	4201992.70	0.06147	(10011219)	609544.09
4201992.70	0.05788	(10011219)		
609559.09	4201992.70	0.05662	(11123024)	609574.09
4201992.70	0.05396	(09010206)		
609589.09	4201992.70	0.05038	(13022722)	609604.09
4201992.70	0.04986	(13012505)		
609619.09	4201992.70	0.04870	(13012505)	609634.09
4201992.70	0.04630	(13012505)		
609034.09	4202007.70	0.04815	(10011203)	609049.09
4202007.70	0.05007	(10011708)		
609064.09	4202007.70	0.05205	(10020603)	609079.09
4202007.70	0.05411	(09020508)		
609094.09	4202007.70	0.05587	(09123118)	609109.09
4202007.70	0.05855	(10120519)		
609124.09	4202007.70	0.06095	(10020602)	609139.09
4202007.70	0.06366	(10121905)		
609154.09	4202007.70	0.06544	(10121905)	609169.09
4202007.70	0.06768	(10122508)		
609184.09	4202007.70	0.06998	(10011607)	609199.09
4202007.70	0.07342	(11010301)		
609214.09	4202007.70	0.07468	(12020820)	609229.09
4202007.70	0.07648	(09123119)		
609244.09	4202007.70	0.07917	(09123119)	609259.09
4202007.70	0.08013	(10010301)		
609274.09	4202007.70	0.08386	(09012222)	609289.09
4202007.70	0.08453	(10010720)		
609304.09	4202007.70	0.08132	(12020204)	609319.09
4202007.70	0.08461	(12020204)		
609334.09	4202007.70	0.08351	(12010420)	609379.09
4202007.70	0.08428	(09012120)		
609394.09	4202007.70	0.08190	(10021118)	609409.09
4202007.70	0.08122	(12012619)		
609424.09	4202007.70	0.07981	(12120619)	609439.09
4202007.70	0.07815	(10121002)		
609454.09	4202007.70	0.07558	(10012503)	609469.09
4202007.70	0.07355	(09022304)		
609484.09	4202007.70	0.07153	(11011324)	609499.09
4202007.70	0.06784	(09120624)		
609514.09	4202007.70	0.06680	(10011219)	609529.09
4202007.70	0.06339	(10011219)		
609544.09	4202007.70	0.06139	(11123024)	609559.09
4202007.70	0.05844	(09010206)		
609574.09	4202007.70	0.05442	(13022722)	609589.09
4202007.70	0.05388	(13012505)		
609604.09	4202007.70	0.05233	(13012505)	609619.09
4202007.70	0.04939	(13012505)		

609634.09	4202007.70	0.04719	(09122007)	609649.09
4202007.70	0.04619	(09122007)		
609034.09	4202022.70	0.04983	(10011203)	609049.09
4202022.70	0.05155	(10011203)		
609064.09	4202022.70	0.05349	(10011708)	609079.09
4202022.70	0.05598	(10020603)		
609094.09	4202022.70	0.05828	(09020508)	609109.09
4202022.70	0.06041	(09123118)		
609124.09	4202022.70	0.06361	(10120519)	609139.09
4202022.70	0.06645	(10020602)		
609154.09	4202022.70	0.06948	(10121905)	609169.09
4202022.70	0.07128	(10122508)		
609184.09	4202022.70	0.07356	(10122508)	609199.09
4202022.70	0.07759	(10011607)		
609214.09	4202022.70	0.08065	(11010301)	609229.09
4202022.70	0.08208	(12020820)		
609244.09	4202022.70	0.08504	(09123119)	609259.09
4202022.70	0.08646	(10010301)		
609274.09	4202022.70	0.08951	(09012222)	609289.09
4202022.70	0.09071	(10010720)		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREA4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609304.09	4202022.70	0.08856	(10010720)	609319.09
4202022.70	0.09118	(12020204)		
609334.09	4202022.70	0.09001	(12010420)	609349.09
4202022.70	0.09213	(09012323)		
609379.09	4202022.70	0.09078	(09012120)	609394.09
4202022.70	0.08872	(12012619)		
609409.09	4202022.70	0.08702	(09122003)	609424.09
4202022.70	0.08607	(12120619)		

609439.09	4202022.70	0.08390	(10121002)	609454.09
4202022.70	0.07914	(09022304)		
609469.09	4202022.70	0.07852	(09022304)	609484.09
4202022.70	0.07469	(09120624)		
609499.09	4202022.70	0.07276	(10011219)	609514.09
4202022.70	0.06966	(10011219)		
609529.09	4202022.70	0.06685	(11123024)	609544.09
4202022.70	0.06357	(09010206)		
609559.09	4202022.70	0.05905	(13022722)	609574.09
4202022.70	0.05845	(13012505)		
609589.09	4202022.70	0.05639	(13012505)	609604.09
4202022.70	0.05280	(13012505)		
609619.09	4202022.70	0.05111	(09122007)	609634.09
4202022.70	0.04953	(09122007)		
609649.09	4202022.70	0.04767	(10120324)	609664.09
4202022.70	0.04506	(10120324)		
609019.09	4202037.70	0.05325	(10011620)	609034.09
4202037.70	0.05254	(10011620)		
609049.09	4202037.70	0.05285	(10011203)	609064.09
4202037.70	0.05555	(10011203)		
609079.09	4202037.70	0.05755	(10011708)	609094.09
4202037.70	0.06061	(10020603)		
609109.09	4202037.70	0.06326	(09020508)	609124.09
4202037.70	0.06602	(09123118)		
609139.09	4202037.70	0.06966	(10120519)	609154.09
4202037.70	0.07271	(10020602)		
609169.09	4202037.70	0.07631	(10121905)	609184.09
4202037.70	0.07889	(10122508)		
609199.09	4202037.70	0.08110	(09013019)	609214.09
4202037.70	0.08544	(10011607)		
609229.09	4202037.70	0.08768	(11010301)	609244.09
4202037.70	0.09030	(09123119)		
609259.09	4202037.70	0.09261	(10010301)	609274.09
4202037.70	0.09519	(09012222)		
609289.09	4202037.70	0.09727	(10010720)	609304.09
4202037.70	0.09686	(10010720)		
609319.09	4202037.70	0.09855	(12020204)	609334.09
4202037.70	0.09740	(12010420)		
609349.09	4202037.70	0.09947	(09012323)	609394.09
4202037.70	0.09615	(12012619)		
609409.09	4202037.70	0.09367	(09122003)	609424.09
4202037.70	0.09188	(12120619)		
609439.09	4202037.70	0.08882	(10012503)	609454.09
4202037.70	0.08645	(09022304)		
609469.09	4202037.70	0.08293	(11011324)	609484.09
4202037.70	0.07942	(10011219)		
609499.09	4202037.70	0.07688	(10011219)	609514.09
4202037.70	0.07315	(11123024)		
609529.09	4202037.70	0.06952	(09010206)	609544.09
4202037.70	0.06440	(13022722)		

609559.09	4202037.70	0.06368	(13012505)	609574.09
4202037.70	0.06098	(13012505)		
609589.09	4202037.70	0.05656	(13012505)	609604.09
4202037.70	0.05543	(09122007)		
609619.09	4202037.70	0.05339	(10120324)	609634.09
4202037.70	0.05087	(10120324)		
609649.09	4202037.70	0.04833	(12022704)	609664.09
4202037.70	0.04638	(12022704)		
609679.09	4202037.70	0.04398	(12123118)	609019.09
4202052.70	0.05679	(10020504)		
609034.09	4202052.70	0.05787	(10011620)	609049.09
4202052.70	0.05795	(10011620)		
609064.09	4202052.70	0.05710	(10011622)	609079.09
4202052.70	0.06026	(10011203)		
609094.09	4202052.70	0.06262	(10011203)	609109.09
4202052.70	0.06603	(10011708)		
609124.09	4202052.70	0.06907	(09020508)	609139.09
4202052.70	0.07240	(09123118)		
609154.09	4202052.70	0.07659	(10121405)	609169.09
4202052.70	0.08023	(10020602)		
609184.09	4202052.70	0.08445	(10121905)	609199.09
4202052.70	0.08739	(10122508)		

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREA4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609214.09	4202052.70	0.09064	(10011607)	609229.09
4202052.70	0.09506	(11010301)		
609244.09	4202052.70	0.09715	(12020820)	609259.09
4202052.70	0.10069	(09123119)		
609274.09	4202052.70	0.10182	(10010301)	609289.09
4202052.70	0.10585	(09012222)		

609304.09	4202052.70	0.10599	(10010720)	609319.09
4202052.70	0.10687 (12020204)			
609334.09	4202052.70	0.10583	(12010420)	609349.09
4202052.70	0.10778 (09012323)			
609364.09	4202052.70	0.10502	(09012120)	609394.09
4202052.70	0.10388 (12012619)			
609409.09	4202052.70	0.10191	(12120619)	609424.09
4202052.70	0.09960 (10121002)			
609439.09	4202052.70	0.09447	(09022304)	609454.09
4202052.70	0.09259 (11011324)			
609469.09	4202052.70	0.08709	(09120624)	609484.09
4202052.70	0.08521 (10011219)			
609499.09	4202052.70	0.08050	(11123024)	609514.09
4202052.70	0.07646 (09010206)			
609529.09	4202052.70	0.07065	(13012505)	609544.09
4202052.70	0.06971 (13012505)			
609559.09	4202052.70	0.06618	(13012505)	609574.09
4202052.70	0.06195 (09122007)			
609589.09	4202052.70	0.06019	(09122007)	609604.09
4202052.70	0.05763 (10120324)			
609619.09	4202052.70	0.05418	(10120324)	609634.09
4202052.70	0.05200 (12022704)			
609649.09	4202052.70	0.04925	(12022704)	609664.09
4202052.70	0.04694 (10121903)			
609679.09	4202052.70	0.04438	(10121903)	609694.09
4202052.70	0.04147 (10121903)			
609004.09	4202067.70	0.05751	(10020504)	609019.09
4202067.70	0.06019 (10020504)			
609034.09	4202067.70	0.06199	(10020504)	609049.09
4202067.70	0.06268 (10020504)			
609064.09	4202067.70	0.06421	(10011620)	609079.09
4202067.70	0.06442 (10011620)			
609094.09	4202067.70	0.06514	(10011203)	609109.09
4202067.70	0.06856 (10011203)			
609124.09	4202067.70	0.07215	(10011708)	609139.09
4202067.70	0.07603 (10020603)			
609154.09	4202067.70	0.08006	(09020508)	609169.09
4202067.70	0.08497 (10121405)			
609184.09	4202067.70	0.08883	(10020602)	609199.09
4202067.70	0.09346 (10121905)			
609214.09	4202067.70	0.09685	(10122508)	609229.09
4202067.70	0.10198 (10011607)			
609244.09	4202067.70	0.10542	(11010301)	609259.09
4202067.70	0.10912 (09123119)			
609274.09	4202067.70	0.11174	(10010301)	609289.09
4202067.70	0.11565 (09012222)			
609304.09	4202067.70	0.11641	(10010720)	609319.09
4202067.70	0.11638 (12020204)			
609334.09	4202067.70	0.11550	(12010420)	609349.09
4202067.70	0.11725 (09012323)			

609364.09	4202067.70	0.11545	(09012120)	609409.09
4202067.70	0.11074	(12120619)		
609424.09	4202067.70	0.10671	(10121002)	609439.09
4202067.70	0.10350	(09022304)		
609454.09	4202067.70	0.09788	(09120624)	609469.09
4202067.70	0.09496	(10011219)		
609484.09	4202067.70	0.08922	(11123024)	609499.09
4202067.70	0.08475	(09010206)		
609514.09	4202067.70	0.07837	(13012505)	609529.09
4202067.70	0.07676	(13012505)		
609544.09	4202067.70	0.07214	(13012505)	609559.09
4202067.70	0.06826	(09122007)		
609574.09	4202067.70	0.06557	(10120324)	609589.09
4202067.70	0.06217	(10120324)		
609604.09	4202067.70	0.05872	(12022704)	609619.09
4202067.70	0.05577	(12022704)		
609634.09	4202067.70	0.05276	(10121903)	609649.09
4202067.70	0.04984	(10121903)		
609664.09	4202067.70	0.04647	(10121903)	609679.09
4202067.70	0.04364	(11011122)		
609694.09	4202067.70	0.04176	(11011122)	609709.09
4202067.70	0.03961	(11011122)		
609004.09	4202082.70	0.05662	(10021222)	609019.09
4202082.70	0.05995	(10020504)		

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 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREA4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609034.09	4202082.70	0.06398	(10020504)	609049.09
4202082.70	0.06726	(10020504)		
609064.09	4202082.70	0.06950	(10020504)	609079.09
4202082.70	0.07068	(10011620)		

609094.09	4202082.70	0.07208	(10011620)	609109.09
4202082.70	0.07154	(10011620)		
609124.09	4202082.70	0.07534	(10011203)	609139.09
4202082.70	0.07942	(10011708)		
609154.09	4202082.70	0.08441	(10020603)	609169.09
4202082.70	0.08908	(09020508)		
609184.09	4202082.70	0.09454	(10121405)	609199.09
4202082.70	0.09909	(10121905)		
609214.09	4202082.70	0.10434	(10121905)	609229.09
4202082.70	0.10884	(09121818)		
609244.09	4202082.70	0.11554	(11010301)	609259.09
4202082.70	0.11880	(12020820)		
609274.09	4202082.70	0.12268	(09123119)	609289.09
4202082.70	0.12636	(09012222)		
609304.09	4202082.70	0.12814	(10010720)	609319.09
4202082.70	0.12733	(12020204)		
609334.09	4202082.70	0.12669	(12010420)	609349.09
4202082.70	0.12813	(09012323)		
609364.09	4202082.70	0.12715	(09012120)	609409.09
4202082.70	0.12077	(10121002)		
609424.09	4202082.70	0.11517	(09022304)	609439.09
4202082.70	0.11130	(11011324)		
609454.09	4202082.70	0.10631	(10011219)	609469.09
4202082.70	0.09969	(10011219)		
609484.09	4202082.70	0.09467	(09010206)	609499.09
4202082.70	0.08758	(13012505)		
609514.09	4202082.70	0.08503	(13012505)	609529.09
4202082.70	0.07899	(13012505)		
609544.09	4202082.70	0.07539	(09122007)	609559.09
4202082.70	0.07179	(10120324)		
609574.09	4202082.70	0.06699	(10120324)	609589.09
4202082.70	0.06373	(12022704)		
609604.09	4202082.70	0.05986	(10121903)	609619.09
4202082.70	0.05650	(10121903)		
609634.09	4202082.70	0.05255	(10121903)	609649.09
4202082.70	0.04897	(11011122)		
609664.09	4202082.70	0.04664	(11011122)	609679.09
4202082.70	0.04402	(11011122)		
609694.09	4202082.70	0.04185	(12121308)	609709.09
4202082.70	0.04044	(12121308)		
609004.09	4202097.70	0.05735	(10021223)	609019.09
4202097.70	0.05975	(10021222)		
609034.09	4202097.70	0.06315	(10021222)	609049.09
4202097.70	0.06744	(10020504)		
609064.09	4202097.70	0.07237	(10020504)	609079.09
4202097.70	0.07632	(10020504)		
609094.09	4202097.70	0.07892	(10020504)	609109.09
4202097.70	0.08046	(10011620)		
609124.09	4202097.70	0.08182	(10011620)	609139.09
4202097.70	0.08311	(10011203)		



609154.09	4202097.70	0.08773	(10011203)	609169.09
4202097.70	0.09380	(10020603)		
609184.09	4202097.70	0.09968	(09020508)	609199.09
4202097.70	0.10643	(10121405)		
609214.09	4202097.70	0.11285	(10121905)	609229.09
4202097.70	0.11887	(10122508)		
609244.09	4202097.70	0.12491	(10011607)	609259.09
4202097.70	0.13040	(11010301)		
609274.09	4202097.70	0.13547	(09123119)	609289.09
4202097.70	0.13741	(09012222)		
609304.09	4202097.70	0.14095	(10010720)	609319.09
4202097.70	0.13997	(12020204)		
609334.09	4202097.70	0.13975	(12010420)	609349.09
4202097.70	0.14075	(09012323)		
609364.09	4202097.70	0.14038	(09012120)	609409.09
4202097.70	0.13170	(10121002)		
609424.09	4202097.70	0.12690	(09022304)	609439.09
4202097.70	0.11960	(10011219)		
609454.09	4202097.70	0.11378	(10011219)	609469.09
4202097.70	0.10678	(11123024)		
609484.09	4202097.70	0.09871	(13012505)	609499.09
4202097.70	0.09481	(13012505)		
609514.09	4202097.70	0.08704	(09122007)	609529.09
4202097.70	0.08344	(09122007)		
609544.09	4202097.70	0.07857	(10120324)	609559.09
4202097.70	0.07358	(12022704)		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREA4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609574.09	4202097.70	0.06886	(12123118)	609589.09
4202097.70	0.06476	(10121903)		

609604.09	4202097.70	0.06006	(10121903)	609619.09
4202097.70	0.05550	(11011122)		
609634.09	4202097.70	0.05259	(11011122)	609649.09
4202097.70	0.04932	(11011122)		
609664.09	4202097.70	0.04707	(12121308)	609679.09
4202097.70	0.04518	(12121308)		
609694.09	4202097.70	0.04345	(11011323)	609709.09
4202097.70	0.04190	(11011323)		
609724.09	4202097.70	0.04020	(11011323)	608989.09
4202112.70	0.05611	(13012320)		
609004.09	4202112.70	0.05895	(10122201)	609019.09
4202112.70	0.06171	(10122201)		
609034.09	4202112.70	0.06447	(10021223)	609049.09
4202112.70	0.06706	(10021222)		
609064.09	4202112.70	0.07147	(10021222)	609079.09
4202112.70	0.07680	(10020504)		
609094.09	4202112.70	0.08282	(10020504)	609109.09
4202112.70	0.08765	(10020504)		
609124.09	4202112.70	0.09081	(10020504)	609139.09
4202112.70	0.09285	(10011620)		
609154.09	4202112.70	0.09369	(10011620)	609169.09
4202112.70	0.09823	(10011203)		
609184.09	4202112.70	0.10522	(10020603)	609199.09
4202112.70	0.11319	(09020508)		
609214.09	4202112.70	0.12156	(10121405)	609229.09
4202112.70	0.12965	(10121905)		
609244.09	4202112.70	0.13615	(10122508)	609259.09
4202112.70	0.14370	(11010301)		
609274.09	4202112.70	0.14879	(13121217)	609289.09
4202112.70	0.15303	(10010301)		
609304.09	4202112.70	0.15625	(09012222)	609319.09
4202112.70	0.15483	(12020204)		
609334.09	4202112.70	0.15513	(12010420)	609349.09
4202112.70	0.15558	(09012323)		
609364.09	4202112.70	0.15558	(09012120)	609379.09
4202112.70	0.15337	(12012619)		
609409.09	4202112.70	0.14469	(09022304)	609424.09
4202112.70	0.13728	(11011324)		
609439.09	4202112.70	0.13115	(10011219)	609454.09
4202112.70	0.12201	(11123024)		
609469.09	4202112.70	0.11244	(13012505)	609484.09
4202112.70	0.10658	(13012505)		
609499.09	4202112.70	0.09842	(09122007)	609514.09
4202112.70	0.09305	(10120324)		
609529.09	4202112.70	0.08599	(12022704)	609544.09
4202112.70	0.08067	(12022704)		
609559.09	4202112.70	0.07522	(10121903)	609574.09
4202112.70	0.06952	(10121903)		
609589.09	4202112.70	0.06367	(11011122)	609604.09
4202112.70	0.05994	(11011122)		

609619.09	4202112.70	0.05581	(11011122)	609634.09
4202112.70	0.05340	(12121308)		
609649.09	4202112.70	0.05100	(12022118)	609664.09
4202112.70	0.04900	(11011323)		
609679.09	4202112.70	0.04686	(11011323)	609694.09
4202112.70	0.04458	(11011323)		
609709.09	4202112.70	0.04231	(12013024)	609724.09
4202112.70	0.04053	(12013024)		
608989.09	4202127.70	0.05713	(10020824)	609004.09
4202127.70	0.05982	(10020824)		
609019.09	4202127.70	0.06284	(13012320)	609034.09
4202127.70	0.06567	(10122201)		
609049.09	4202127.70	0.06953	(10122201)	609064.09
4202127.70	0.07296	(10021223)		
609079.09	4202127.70	0.07658	(10021223)	609094.09
4202127.70	0.08148	(10021222)		
609109.09	4202127.70	0.08826	(10020504)	609124.09
4202127.70	0.09576	(10020504)		
609139.09	4202127.70	0.10179	(10020504)	609154.09
4202127.70	0.10587	(10020504)		
609169.09	4202127.70	0.10851	(10011620)	609184.09
4202127.70	0.11112	(10011203)		
609199.09	4202127.70	0.11975	(10011708)	609214.09
4202127.70	0.12956	(09020508)		
609229.09	4202127.70	0.14009	(10121405)	609244.09
4202127.70	0.15037	(10121905)		
609259.09	4202127.70	0.15808	(09121818)	609274.09
4202127.70	0.16624	(11010301)		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
 \*\*\* 11:32:22

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREA4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

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

-----

609289.09	4202127.70	0.17203	(09123119)	609304.09
4202127.70	0.17479	(09012222)		
609319.09	4202127.70	0.17271	(10010720)	609334.09
4202127.70	0.17351	(12010420)		
609349.09	4202127.70	0.17332	(09012323)	609364.09
4202127.70	0.17376	(10021118)		
609379.09	4202127.70	0.17111	(09122003)	609409.09
4202127.70	0.16164	(11011324)		
609424.09	4202127.70	0.15292	(10011219)	609439.09
4202127.70	0.14145	(11123024)		
609454.09	4202127.70	0.12977	(13012505)	609469.09
4202127.70	0.12098	(13012505)		
609484.09	4202127.70	0.11187	(09122007)	609499.09
4202127.70	0.10398	(10120324)		
609514.09	4202127.70	0.09604	(12022704)	609529.09
4202127.70	0.08880	(10121903)		
609544.09	4202127.70	0.08173	(10121903)	609559.09
4202127.70	0.07411	(11011122)		
609574.09	4202127.70	0.06922	(11011122)	609589.09
4202127.70	0.06436	(12121308)		
609604.09	4202127.70	0.06119	(12022118)	609619.09
4202127.70	0.05839	(11011323)		
609634.09	4202127.70	0.05563	(11011323)	609649.09
4202127.70	0.05267	(11011323)		
609664.09	4202127.70	0.04968	(12013024)	609679.09
4202127.70	0.04733	(12013024)		
609694.09	4202127.70	0.04512	(10121022)	609709.09
4202127.70	0.04329	(10121022)		
609724.09	4202127.70	0.04140	(10121022)	608974.09
4202142.70	0.05534	(09123103)		
608989.09	4202142.70	0.05795	(09123103)	609004.09
4202142.70	0.06048	(10122106)		
609019.09	4202142.70	0.06344	(13010602)	609034.09
4202142.70	0.06681	(10020824)		
609049.09	4202142.70	0.07049	(10020824)	609064.09
4202142.70	0.07454	(13012320)		
609079.09	4202142.70	0.07868	(10122201)	609094.09
4202142.70	0.08357	(10122201)		
609109.09	4202142.70	0.08832	(10021223)	609124.09
4202142.70	0.09391	(10021222)		
609139.09	4202142.70	0.10281	(10020504)	609154.09
4202142.70	0.11275	(10020504)		
609169.09	4202142.70	0.12125	(10020504)	609184.09
4202142.70	0.12692	(10020504)		
609199.09	4202142.70	0.13011	(10011620)	609214.09
4202142.70	0.13717	(10011203)		
609229.09	4202142.70	0.15012	(09020508)	609244.09
4202142.70	0.16435	(10121405)		
609259.09	4202142.70	0.17724	(10121905)	609274.09
4202142.70	0.18788	(09121818)		

609289.09	4202142.70	0.19515	(09123119)	609304.09
4202142.70	0.19693	(09012222)		
609319.09	4202142.70	0.19627	(12123120)	609334.09
4202142.70	0.19631	(13022419)		
609349.09	4202142.70	0.19497	(09012323)	609364.09
4202142.70	0.19680	(10021118)		
609379.09	4202142.70	0.19544	(12120619)	609409.09
4202142.70	0.18063	(10011219)		
609424.09	4202142.70	0.16721	(11123024)	609439.09
4202142.70	0.15233	(13012505)		
609454.09	4202142.70	0.13890	(13012505)	609469.09
4202142.70	0.12823	(10120324)		
609484.09	4202142.70	0.11678	(12022704)	609499.09
4202142.70	0.10707	(12123118)		
609514.09	4202142.70	0.09793	(10121903)	609529.09
4202142.70	0.08786	(11011122)		
609544.09	4202142.70	0.08119	(11011122)	609559.09
4202142.70	0.07547	(12121308)		
609574.09	4202142.70	0.07131	(12022118)	609589.09
4202142.70	0.06757	(11011323)		
609604.09	4202142.70	0.06360	(11011323)	609619.09
4202142.70	0.05953	(12013024)		
609634.09	4202142.70	0.05631	(12013024)	609649.09
4202142.70	0.05350	(10121022)		
609664.09	4202142.70	0.05094	(10121022)	609679.09
4202142.70	0.04836	(10121022)		
609694.09	4202142.70	0.04579	(10121022)	609709.09
4202142.70	0.04349	(13012506)		
609724.09	4202142.70	0.04129	(13012506)	608974.09
4202157.70	0.05596	(12012005)		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
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 \*\*\* AERMET - VERSION 14134 \*\*\*  
 \*\*\* 11:32:22

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREA4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

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

608989.09	4202157.70	0.05877	(12012005)	609004.09
4202157.70	0.06153	(10010205)		
609019.09	4202157.70	0.06456	(10010205)	609034.09
4202157.70	0.06778	(09123103)		
609049.09	4202157.70	0.07138	(09123103)	609064.09
4202157.70	0.07521	(13010602)		
609079.09	4202157.70	0.07983	(10020824)	609094.09
4202157.70	0.08493	(12120523)		
609109.09	4202157.70	0.09044	(13012320)	609124.09
4202157.70	0.09645	(10122201)		
609139.09	4202157.70	0.10296	(10122201)	609154.09
4202157.70	0.11020	(10021223)		
609169.09	4202157.70	0.12294	(10020504)	609184.09
4202157.70	0.13618	(10020504)		
609199.09	4202157.70	0.14762	(10020504)	609214.09
4202157.70	0.15610	(10020504)		
609229.09	4202157.70	0.16049	(10011203)	609244.09
4202157.70	0.17794	(10020603)		
609259.09	4202157.70	0.19789	(10121405)	609274.09
4202157.70	0.21490	(11020623)		
609289.09	4202157.70	0.22542	(12020820)	609304.09
4202157.70	0.22631	(13122120)		
609319.09	4202157.70	0.22569	(12123120)	609334.09
4202157.70	0.22455	(13022419)		
609349.09	4202157.70	0.22234	(10021118)	609364.09
4202157.70	0.22552	(10021118)		
609379.09	4202157.70	0.22548	(10121002)	609409.09
4202157.70	0.20130	(11123024)		
609424.09	4202157.70	0.18198	(13012505)	609439.09
4202157.70	0.16329	(09122007)		
609454.09	4202157.70	0.14798	(10120324)	609469.09
4202157.70	0.13325	(12123118)		
609484.09	4202157.70	0.12032	(10121903)	609499.09
4202157.70	0.10675	(10121903)		
609514.09	4202157.70	0.09711	(11011122)	609529.09
4202157.70	0.09032	(12022118)		
609544.09	4202157.70	0.08460	(11011323)	609559.09
4202157.70	0.07898	(11011323)		
609574.09	4202157.70	0.07326	(11011323)	609589.09
4202157.70	0.06862	(12013024)		
609604.09	4202157.70	0.06483	(10121022)	609619.09
4202157.70	0.06113	(10121022)		
609634.09	4202157.70	0.05746	(10121022)	609649.09
4202157.70	0.05406	(13012506)		
609664.09	4202157.70	0.05093	(13012506)	609679.09
4202157.70	0.04790	(13012506)		
609694.09	4202157.70	0.04574	(09010202)	609709.09
4202157.70	0.04365	(09010202)		

609724.09	4202172.70	0.04162	(09010202)	608959.09
4202172.70	0.05405	(12012524)		
608974.09	4202172.70	0.05660	(12012524)	608989.09
4202172.70	0.05922	(12012524)		
609004.09	4202172.70	0.06208	(10120218)	609019.09
4202172.70	0.06510	(12011923)		
609034.09	4202172.70	0.06857	(12011923)	609049.09
4202172.70	0.07249	(12012005)		
609064.09	4202172.70	0.07661	(12012005)	609079.09
4202172.70	0.08125	(10010205)		
609094.09	4202172.70	0.08616	(09123103)	609109.09
4202172.70	0.09147	(09123103)		
609124.09	4202172.70	0.09772	(13010602)	609139.09
4202172.70	0.10504	(12120523)		
609154.09	4202172.70	0.11340	(13012320)	609169.09
4202172.70	0.12329	(10122201)		
609184.09	4202172.70	0.13369	(10021223)	609199.09
4202172.70	0.14957	(10020504)		
609214.09	4202172.70	0.16826	(10020504)	609229.09
4202172.70	0.18638	(10020504)		
609244.09	4202172.70	0.20228	(10020504)	609259.09
4202172.70	0.21635	(10020603)		
609274.09	4202172.70	0.24681	(10121405)	609289.09
4202172.70	0.26603	(09121818)		
609304.09	4202172.70	0.26318	(09123119)	609319.09
4202172.70	0.25947	(12123120)		
609334.09	4202172.70	0.25699	(12041921)	609349.09
4202172.70	0.25760	(10021118)		
609364.09	4202172.70	0.26016	(12010523)	609379.09
4202172.70	0.26312	(11120403)		
609409.09	4202172.70	0.22061	(13012505)	609424.09
4202172.70	0.19450	(10120324)		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
 \*\*\* 11:32:22

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREA4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
609439.09	4202172.70	0.17279	(12123118)	609454.09
4202172.70	0.15294 (10121903)			
609469.09	4202172.70	0.13343	(10121903)	609484.09
4202172.70	0.11999 (12022118)			
609499.09	4202172.70	0.11047	(12022118)	609514.09
4202172.70	0.10182 (11011323)			
609529.09	4202172.70	0.09328	(11011323)	609544.09
4202172.70	0.08649 (10121022)			
609559.09	4202172.70	0.08074	(10121022)	609574.09
4202172.70	0.07514 (10121022)			
609589.09	4202172.70	0.06982	(13012506)	609604.09
4202172.70	0.06510 (13012506)			
609619.09	4202172.70	0.06081	(09010202)	609634.09
4202172.70	0.05749 (09010202)			
609649.09	4202172.70	0.05431	(09010202)	609664.09
4202172.70	0.05128 (09010202)			
609679.09	4202172.70	0.04841	(09010202)	609694.09
4202172.70	0.04568 (09010202)			
609709.09	4202172.70	0.04311	(09010202)	609724.09
4202172.70	0.04110 (11120401)			
608959.09	4202187.70	0.05407	(09021723)	608974.09
4202187.70	0.05672 (11121204)			
608989.09	4202187.70	0.05950	(11121204)	609004.09
4202187.70	0.06250 (09122008)			
609019.09	4202187.70	0.06575	(09122008)	609034.09
4202187.70	0.06940 (12012524)			
609049.09	4202187.70	0.07332	(12012524)	609064.09
4202187.70	0.07749 (12012524)			
609079.09	4202187.70	0.08207	(10120218)	609094.09
4202187.70	0.08716 (12011923)			
609109.09	4202187.70	0.09293	(12012005)	609124.09
4202187.70	0.09944 (12012005)			
609139.09	4202187.70	0.10656	(10010205)	609154.09
4202187.70	0.11495 (09123103)			
609169.09	4202187.70	0.12493	(10120918)	609184.09
4202187.70	0.13636 (12120523)			
609199.09	4202187.70	0.14895	(13012320)	609214.09
4202187.70	0.16414 (10122201)			
609229.09	4202187.70	0.18738	(10020504)	609244.09
4202187.70	0.21653 (10020504)			
609259.09	4202187.70	0.24976	(10020504)	609274.09
4202187.70	0.28426 (10020504)			
609409.09	4202187.70	0.23349	(10020321)	609424.09
4202187.70	0.19972 (12123118)			
609439.09	4202187.70	0.17235	(10021519)	609454.09
4202187.70	0.15401 (12022118)			



609469.09	4202187.70	0.13836	(11011323)	609484.09
4202187.70	0.12438	(12013024)		
609499.09	4202187.70	0.11371	(10121022)	609514.09
4202187.70	0.10414	(10121022)		
609529.09	4202187.70	0.09522	(10121022)	609544.09
4202187.70	0.08739	(13012506)		
609559.09	4202187.70	0.08077	(09010202)	609574.09
4202187.70	0.07526	(09010202)		
609589.09	4202187.70	0.07012	(09010202)	609604.09
4202187.70	0.06532	(09010202)		
609619.09	4202187.70	0.06087	(09010202)	609634.09
4202187.70	0.05705	(11120401)		
609649.09	4202187.70	0.05384	(11120401)	609664.09
4202187.70	0.05110	(11021923)		
609679.09	4202187.70	0.04869	(11021923)	609694.09
4202187.70	0.04641	(11021923)		
609709.09	4202187.70	0.04425	(11021923)	609724.09
4202187.70	0.04223	(11021923)		
608959.09	4202202.70	0.05446	(09020523)	608974.09
4202202.70	0.05720	(09020523)		
608989.09	4202202.70	0.06011	(09020523)	609004.09
4202202.70	0.06321	(09020523)		
609019.09	4202202.70	0.06650	(09020523)	609034.09
4202202.70	0.06993	(09020523)		
609049.09	4202202.70	0.07366	(09021723)	609064.09
4202202.70	0.07785	(09021723)		
609079.09	4202202.70	0.08252	(11121204)	609094.09
4202202.70	0.08777	(11121204)		
609109.09	4202202.70	0.09366	(09122008)	609124.09
4202202.70	0.10037	(12012524)		
609139.09	4202202.70	0.10778	(12012524)	609154.09
4202202.70	0.11639	(10120218)		
609169.09	4202202.70	0.12657	(10120218)	609184.09
4202202.70	0.13764	(12012005)		

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21

\*\*\* AERMET - VERSION 14134 \*\*\*  
\*\*\* 11:32:22

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

VALUES FOR SOURCE GROUP: ALL \*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
\*\*\* INCLUDING SOURCE(S): PAREA4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M) Y-COORD (M)	Y-COORD (M) CONC (YYMMDDHH)	CONC	(YYMMDDHH)	X-COORD (M)
609199.09 4202202.70	4202202.70 0.16569 (10120918)	0.15034	(10010205)	609214.09
609229.09 4202202.70	4202202.70 0.20679 (10120918)	0.18441	(10120918)	609244.09
609259.09 4202202.70	4202202.70 0.28892 (10020504)	0.24564	(10020504)	609274.09
609409.09 4202202.70	4202202.70 0.19930 (12022118)	0.23017	(12022118)	609424.09
609439.09 4202202.70	4202202.70 0.15613 (10121022)	0.17439	(10021418)	609454.09
609469.09 4202202.70	4202202.70 0.12584 (10021219)	0.14026	(10121022)	609484.09
609499.09 4202202.70	4202202.70 0.10417 (09010202)	0.11425	(09010202)	609514.09
609529.09 4202202.70	4202202.70 0.08726 (11120401)	0.09511	(09010202)	609544.09
609559.09 4202202.70	4202202.70 0.07561 (11021923)	0.08092	(11021923)	609574.09
609589.09 4202202.70	4202202.70 0.06635 (11021923)	0.07076	(11021923)	609604.09
609619.09 4202202.70	4202202.70 0.05853 (11021923)	0.06230	(11021923)	609634.09
609649.09 4202202.70	4202202.70 0.05211 (12121606)	0.05504	(12121606)	609664.09
609679.09 4202202.70	4202202.70 0.04692 (12121606)	0.04945	(12121606)	609694.09
609709.09 4202202.70	4202202.70 0.04252 (12013101)	0.04456	(12121606)	609724.09
608959.09 4202217.70	4202217.70 0.05773 (12120423)	0.05496	(12120423)	608974.09
608989.09 4202217.70	4202217.70 0.06391 (12120423)	0.06071	(12120423)	609004.09
609019.09 4202217.70	4202217.70 0.07106 (12120423)	0.06738	(12120423)	609034.09
609049.09 4202217.70	4202217.70 0.07928 (12120423)	0.07500	(12120423)	609064.09
609079.09 4202217.70	4202217.70 0.08911 (12120423)	0.08392	(12120423)	609094.09
609109.09 4202217.70	4202217.70 0.10117 (12120423)	0.09484	(12120423)	609124.09
609139.09 4202217.70	4202217.70 0.11730 (10120920)	0.10849	(10120920)	609154.09
609169.09 4202217.70	4202217.70 0.13850 (10120920)	0.12749	(10120920)	609184.09

609199.09	4202217.70	0.15087	(10120920)	609214.09
4202217.70	0.16589	(13122019)		
609229.09	4202217.70	0.18397	(12011119)	609244.09
4202217.70	0.20640	(12011119)		
609259.09	4202217.70	0.23378	(11121921)	609274.09
4202217.70	0.27708	(10020504)		
609484.09	4202217.70	0.12688	(11011518)	609499.09
4202217.70	0.11532	(11021923)		
609514.09	4202217.70	0.10540	(12121606)	609529.09
4202217.70	0.09675	(12121606)		
609544.09	4202217.70	0.08925	(12013101)	609559.09
4202217.70	0.08280	(12013101)		
609574.09	4202217.70	0.07707	(12013101)	609589.09
4202217.70	0.07195	(12013101)		
609604.09	4202217.70	0.06730	(12013101)	609619.09
4202217.70	0.06309	(12013101)		
609634.09	4202217.70	0.05926	(12013101)	609649.09
4202217.70	0.05578	(12013101)		
609664.09	4202217.70	0.05271	(12013101)	609679.09
4202217.70	0.04994	(12013101)		
609694.09	4202217.70	0.04735	(12013101)	609709.09
4202217.70	0.04496	(12013101)		
609724.09	4202217.70	0.04280	(12013101)	608959.09
4202232.70	0.05399	(10013006)		
608974.09	4202232.70	0.05668	(10013006)	608989.09
4202232.70	0.05960	(10013006)		
609004.09	4202232.70	0.06275	(10013006)	609019.09
4202232.70	0.06617	(10013006)		
609034.09	4202232.70	0.06991	(10013006)	609049.09
4202232.70	0.07399	(10013006)		
609064.09	4202232.70	0.07832	(10013006)	609079.09
4202232.70	0.08294	(10013006)		
609094.09	4202232.70	0.08821	(10013006)	609109.09
4202232.70	0.09415	(10013006)		
609124.09	4202232.70	0.10075	(10013006)	609139.09
4202232.70	0.10811	(10121319)		

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREA4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M) Y-COORD (M)	Y-COORD (M) CONC (YYMMDDHH)	CONC	(YYMMDDHH)	X-COORD (M)
609154.09	4202232.70	0.11708	(10121319)	609169.09
4202232.70	0.12750 (10121319)			
609184.09	4202232.70	0.13891	(12120423)	609199.09
4202232.70	0.15171 (12120423)			
609214.09	4202232.70	0.16653	(12120423)	609229.09
4202232.70	0.18418 (12012707)			
609244.09	4202232.70	0.20590	(12012707)	609259.09
4202232.70	0.23266 (11020419)			
609274.09	4202232.70	0.26020	(12042123)	609424.09
4202232.70	0.19668 (10010104)			
609439.09	4202232.70	0.17367	(10010104)	609454.09
4202232.70	0.15509 (12013101)			
609469.09	4202232.70	0.13956	(12013101)	609484.09
4202232.70	0.12671 (12013101)			
609499.09	4202232.70	0.11555	(12013101)	609514.09
4202232.70	0.10541 (12013101)			
609529.09	4202232.70	0.09646	(12013101)	609544.09
4202232.70	0.08866 (12121805)			
609559.09	4202232.70	0.08203	(12121805)	609574.09
4202232.70	0.07619 (12121805)			
609589.09	4202232.70	0.07100	(12121805)	609604.09
4202232.70	0.06628 (12121805)			
609619.09	4202232.70	0.06201	(12121805)	609634.09
4202232.70	0.05826 (12121805)			
609649.09	4202232.70	0.05491	(12121805)	609664.09
4202232.70	0.05189 (12121805)			
609679.09	4202232.70	0.04915	(12121805)	609694.09
4202232.70	0.04664 (12121805)			
609709.09	4202232.70	0.04434	(12121805)	609724.09
4202232.70	0.04233 (12121805)			
608959.09	4202247.70	0.05479	(10021206)	608974.09
4202247.70	0.05749 (10021206)			
608989.09	4202247.70	0.06041	(10021206)	609004.09
4202247.70	0.06357 (10021206)			
609019.09	4202247.70	0.06700	(10021206)	609034.09
4202247.70	0.07075 (10021206)			
609049.09	4202247.70	0.07484	(10021206)	609064.09
4202247.70	0.07916 (10021206)			
609079.09	4202247.70	0.08373	(10021206)	609094.09
4202247.70	0.08895 (10021206)			
609109.09	4202247.70	0.09485	(10021206)	609124.09
4202247.70	0.10140 (10021206)			

609139.09	4202247.70	0.10868	(10021206)	609154.09
4202247.70	0.11720	(10021206)		
609169.09	4202247.70	0.12704	(10021206)	609184.09
4202247.70	0.13825	(12012004)		
609199.09	4202247.70	0.15133	(13121719)	609214.09
4202247.70	0.16642	(13121719)		
609229.09	4202247.70	0.18440	(13022822)	609244.09
4202247.70	0.20625	(13022822)		
609259.09	4202247.70	0.23297	(13022822)	609274.09
4202247.70	0.26108	(12020821)		
609424.09	4202247.70	0.19552	(10012718)	609439.09
4202247.70	0.17230	(10011408)		
609454.09	4202247.70	0.15372	(10011408)	609469.09
4202247.70	0.13796	(10011408)		
609484.09	4202247.70	0.12484	(10011408)	609499.09
4202247.70	0.11348	(10011408)		
609514.09	4202247.70	0.10324	(10011408)	609529.09
4202247.70	0.09466	(12121805)		
609544.09	4202247.70	0.08740	(12121805)	609559.09
4202247.70	0.08102	(12121805)		
609574.09	4202247.70	0.07532	(12121805)	609589.09
4202247.70	0.07024	(12121805)		
609604.09	4202247.70	0.06559	(12121805)	609619.09
4202247.70	0.06138	(12121805)		
609634.09	4202247.70	0.05770	(12121805)	609649.09
4202247.70	0.05442	(12121805)		
609664.09	4202247.70	0.05145	(12121805)	609679.09
4202247.70	0.04874	(12121805)		
609694.09	4202247.70	0.04626	(12121805)	609709.09
4202247.70	0.04399	(12121805)		
609724.09	4202247.70	0.04203	(12121805)	608959.09
4202262.70	0.05468	(12012004)		
608974.09	4202262.70	0.05737	(12012004)	608989.09
4202262.70	0.06027	(12012004)		
609004.09	4202262.70	0.06337	(12012004)	609019.09
4202262.70	0.06672	(12012004)		
609034.09	4202262.70	0.07034	(12012004)	609049.09
4202262.70	0.07427	(12012004)		

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): PAREA4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

**				
X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609064.09	4202262.70	0.07853	(09020604)	609079.09
4202262.70	0.08324	(09020604)		
609094.09	4202262.70	0.08855	(09020604)	609109.09
4202262.70	0.09449	(09020604)		
609124.09	4202262.70	0.10116	(11123006)	609139.09
4202262.70	0.10859	(11123006)		
609154.09	4202262.70	0.11682	(11123006)	609169.09
4202262.70	0.12603	(11123006)		
609184.09	4202262.70	0.13706	(11123006)	609199.09
4202262.70	0.15041	(09011224)		
609214.09	4202262.70	0.16601	(09011224)	609229.09
4202262.70	0.18429	(12020821)		
609244.09	4202262.70	0.20713	(12020821)	609259.09
4202262.70	0.23482	(12020821)		
609274.09	4202262.70	0.26663	(13121619)	609424.09
4202262.70	0.19586	(13120704)		
609439.09	4202262.70	0.17199	(10012718)	609454.09
4202262.70	0.15340	(10012718)		
609469.09	4202262.70	0.13787	(10012718)	609484.09
4202262.70	0.12466	(10012718)		
609499.09	4202262.70	0.11323	(10012718)	609514.09
4202262.70	0.10344	(10011408)		
609529.09	4202262.70	0.09534	(10011408)	609544.09
4202262.70	0.08840	(10011408)		
609559.09	4202262.70	0.08220	(10011408)	609574.09
4202262.70	0.07645	(10011408)		
609589.09	4202262.70	0.07122	(10011408)	609604.09
4202262.70	0.06640	(10011408)		
609619.09	4202262.70	0.06199	(10011408)	609634.09
4202262.70	0.05810	(10011408)		
609649.09	4202262.70	0.05462	(10011408)	609664.09
4202262.70	0.05144	(10011408)		
609679.09	4202262.70	0.04854	(10011408)	609694.09
4202262.70	0.04587	(10011408)		
609709.09	4202262.70	0.04343	(10011408)	609724.09
4202262.70	0.04127	(10011408)		
609424.09	4202277.70	0.19515	(10010102)	609439.09
4202277.70	0.17052	(13012303)		
609454.09	4202277.70	0.15157	(11121823)	609469.09
4202277.70	0.13638	(11121823)		

609484.09	4202277.70	0.12287	(11121823)	609499.09
4202277.70	0.11097	(13120704)		
609514.09	4202277.70	0.10084	(13120704)	609529.09
4202277.70	0.09251	(10012718)		
609544.09	4202277.70	0.08611	(10012718)	609559.09
4202277.70	0.08028	(10012718)		
609574.09	4202277.70	0.07483	(10012718)	609589.09
4202277.70	0.06980	(10012718)		
609604.09	4202277.70	0.06513	(10012718)	609619.09
4202277.70	0.06096	(10011408)		
609634.09	4202277.70	0.05762	(10011408)	609649.09
4202277.70	0.05456	(10011408)		
609664.09	4202277.70	0.05173	(10011408)	609679.09
4202277.70	0.04910	(10011408)		
609694.09	4202277.70	0.04666	(10011408)	609709.09
4202277.70	0.04439	(10011408)		
609724.09	4202277.70	0.04234	(10011408)	609409.09
4202322.70	0.20197	(12120506)		
609424.09	4202322.70	0.18535	(09022423)	609439.09
4202322.70	0.16881	(09122922)		
609454.09	4202322.70	0.15424	(10122817)	609469.09
4202322.70	0.14099	(11123023)		
609484.09	4202322.70	0.12720	(11123023)	609499.09
4202322.70	0.11173	(11123023)		
609514.09	4202322.70	0.09673	(12020722)	609529.09
4202322.70	0.08940	(09012121)		
609544.09	4202322.70	0.08238	(11010118)	609559.09
4202322.70	0.07563	(11010118)		
609574.09	4202322.70	0.07034	(13012303)	609589.09
4202322.70	0.06602	(11121823)		
609604.09	4202322.70	0.06286	(11121823)	609619.09
4202322.70	0.05961	(11121823)		
609634.09	4202322.70	0.05635	(11121823)	609649.09
4202322.70	0.05310	(11121823)		
609664.09	4202322.70	0.04993	(11121823)	609679.09
4202322.70	0.04690	(09010806)		
609694.09	4202322.70	0.04439	(13120704)	609409.09
4202337.70	0.18097	(11010201)		
609424.09	4202337.70	0.16942	(10012518)	609439.09
4202337.70	0.15805	(09022423)		

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

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

INCLUDING SOURCE(S): PAREA4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M\*\*3

**	
X-COORD (M)	Y-COORD (M)
Y-COORD (M)	CONC (YYMMDDHH)
CONC	(YYMMDDHH)
X-COORD (M)	
609454.09	4202337.70
4202337.70	0.13456 (10122817)
609484.09	4202337.70
4202337.70	0.11574 (11123023)
609514.09	4202337.70
4202337.70	0.09235 (11123023)
609544.09	4202337.70
4202337.70	0.07557 (09012121)
609574.09	4202337.70
4202337.70	0.07034 (11010118)
609604.09	4202337.70
4202337.70	0.06546 (11010118)
609634.09	4202337.70
4202337.70	0.06069 (13012303)
609664.09	4202337.70
4202337.70	0.05714 (13012303)
609694.09	4202337.70
4202337.70	0.05397 (11121823)
609724.09	4202337.70
4202337.70	0.05179 (11121823)
609754.09	4202337.70
4202337.70	0.04954 (11121823)
609784.09	4202337.70
4202337.70	0.04725 (11121823)
609814.09	4202337.70
4202337.70	0.04494 (11121823)
609844.09	4202337.70
4202337.70	0.04264 (11121823)
609874.09	4202337.70
4202337.70	0.04044 (11121823)
609904.09	4202352.70
4202352.70	0.16430 (12120608)
609934.09	4202352.70
4202352.70	0.15730 (12120506)
609964.09	4202352.70
4202352.70	0.14564 (10012518)
609994.09	4202352.70
4202352.70	0.13716 (09022423)
610024.09	4202352.70
4202352.70	0.12788 (09021721)
610054.09	4202352.70
4202352.70	0.11876 (09122922)
610084.09	4202352.70
4202352.70	0.11191 (10122817)
610114.09	4202352.70
4202352.70	0.10432 (11123023)
610144.09	4202352.70
4202352.70	0.09704 (11123023)
610174.09	4202352.70
4202352.70	0.08784 (11123023)
610204.09	4202352.70
4202352.70	0.07767 (11123023)
610234.09	4202352.70
4202352.70	0.06897 (12020722)
610264.09	4202352.70
4202352.70	0.06492 (09012121)
610294.09	4202352.70
4202352.70	0.06105 (09012121)
610324.09	4202352.70
4202352.70	0.05728 (11010118)
610354.09	4202352.70
4202352.70	0.05339 (11010118)
610384.09	4202352.70
4202352.70	0.05009 (13012303)
610414.09	4202352.70
4202352.70	0.04741 (13012303)
610444.09	4202352.70
4202352.70	0.04505 (11121823)



609694.09	4202352.70	0.04357	(11121823)	609709.09
4202352.70	0.04199	(11121823)		
609724.09	4202352.70	0.04050	(11121823)	609409.09
4202367.70	0.14923	(12120608)		
609424.09	4202367.70	0.14214	(10021424)	609439.09
4202367.70	0.13767	(12120506)		
609454.09	4202367.70	0.12701	(10012518)	609469.09
4202367.70	0.12069	(09022423)		
609484.09	4202367.70	0.11314	(09021721)	609499.09
4202367.70	0.10671	(09122922)		
609514.09	4202367.70	0.10043	(10122817)	609529.09
4202367.70	0.09418	(10122817)		
609544.09	4202367.70	0.08908	(11123023)	609559.09
4202367.70	0.08262	(11123023)		
609574.09	4202367.70	0.07469	(11123023)	609589.09
4202367.70	0.06607	(11123023)		
609604.09	4202367.70	0.05956	(12020722)	609619.09
4202367.70	0.05650	(12020722)		
609634.09	4202367.70	0.05344	(09012121)	609649.09
4202367.70	0.05035	(11010118)		
609664.09	4202367.70	0.04743	(11010118)	609679.09
4202367.70	0.04443	(11010118)		
609694.09	4202367.70	0.04240	(13012303)	609709.09
4202367.70	0.04034	(13012303)		
609724.09	4202367.70	0.03865	(11121823)	609394.09
4202382.70	0.13905	(12021206)		
609409.09	4202382.70	0.13688	(12021724)	609424.09
4202382.70	0.13258	(12120608)		
609439.09	4202382.70	0.12594	(13020722)	609454.09
4202382.70	0.12130	(12120506)		
609469.09	4202382.70	0.11204	(10012518)	609484.09
4202382.70	0.10737	(09022423)		
609499.09	4202382.70	0.10125	(09022423)	609514.09
4202382.70	0.09631	(09122922)		
609529.09	4202382.70	0.09010	(10122817)	609544.09
4202382.70	0.08631	(10122817)		
609559.09	4202382.70	0.08120	(11123023)	609574.09
4202382.70	0.07678	(11123023)		
609589.09	4202382.70	0.07073	(11123023)	609604.09
4202382.70	0.06397	(11123023)		
609619.09	4202382.70	0.05683	(11123023)	609634.09
4202382.70	0.05208	(12020722)		

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: ALL \*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 \*\*\*  
 INCLUDING SOURCE(S): PAREA4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609649.09	4202382.70	0.04971	(12020722)	609664.09
4202382.70	0.04731	(09012121)		
609679.09	4202382.70	0.04486	(11010118)	609694.09
4202382.70	0.04262	(11010118)		
609709.09	4202382.70	0.04025	(11010118)	609724.09
4202382.70	0.03827	(13012303)		
609394.09	4202397.70	0.12718	(11022222)	609409.09
4202397.70	0.12586	(10020523)		
609424.09	4202397.70	0.12170	(10022423)	609439.09
4202397.70	0.11618	(12120608)		
609454.09	4202397.70	0.11266	(09022424)	609469.09
4202397.70	0.10757	(12120506)		
609484.09	4202397.70	0.09993	(13011002)	609499.09
4202397.70	0.09638	(09022423)		
609514.09	4202397.70	0.09171	(09022423)	609529.09
4202397.70	0.08727	(09122922)		
609544.09	4202397.70	0.08188	(09122922)	609559.09
4202397.70	0.07868	(10122817)		
609574.09	4202397.70	0.07414	(10122817)	609589.09
4202397.70	0.07066	(11123023)		
609604.09	4202397.70	0.06664	(11123023)	609619.09
4202397.70	0.06154	(11123023)		
609634.09	4202397.70	0.05574	(11123023)	609649.09
4202397.70	0.04963	(11123023)		
609664.09	4202397.70	0.04620	(12020722)	609679.09
4202397.70	0.04434	(12020722)		
609694.09	4202397.70	0.04236	(09012121)	609709.09
4202397.70	0.04040	(09012121)		
609724.09	4202397.70	0.03865	(11010118)	609394.09
4202412.70	0.11768	(09022220)		
609409.09	4202412.70	0.11560	(12021206)	609424.09
4202412.70	0.11342	(12021724)		
609439.09	4202412.70	0.11020	(12120608)	609454.09
4202412.70	0.10439	(13020722)		
609469.09	4202412.70	0.10191	(12120506)	609484.09
4202412.70	0.09594	(12120506)		

609499.09	4202412.70	0.09009	(13011002)	609514.09
4202412.70	0.08719	(09022423)		
609529.09	4202412.70	0.08358	(09022423)	609544.09
4202412.70	0.07943	(09021721)		
609559.09	4202412.70	0.07510	(09122922)	609574.09
4202412.70	0.07149	(10122817)		
609589.09	4202412.70	0.06868	(10122817)	609604.09
4202412.70	0.06506	(12121607)		
609619.09	4202412.70	0.06247	(11123023)	609634.09
4202412.70	0.05873	(11123023)		
609649.09	4202412.70	0.05415	(11123023)	609664.09
4202412.70	0.04907	(11123023)		
609679.09	4202412.70	0.04377	(11123023)	609694.09
4202412.70	0.04137	(12020722)		
609709.09	4202412.70	0.03988	(12020722)	609724.09
4202412.70	0.03823	(09012121)		
609394.09	4202427.70	0.10981	(09022220)	609409.09
4202427.70	0.10659	(12021206)		
609424.09	4202427.70	0.10545	(09022307)	609439.09
4202427.70	0.10208	(10022423)		
609454.09	4202427.70	0.09858	(12120608)	609469.09
4202427.70	0.09480	(13020722)		
609484.09	4202427.70	0.09251	(12120506)	609499.09
4202427.70	0.08635	(10012518)		
609514.09	4202427.70	0.08179	(13011002)	609529.09
4202427.70	0.07939	(09022423)		
609544.09	4202427.70	0.07645	(09022423)	609559.09
4202427.70	0.07275	(09021721)		
609574.09	4202427.70	0.06949	(09122922)	609589.09
4202427.70	0.06534	(10122817)		
609604.09	4202427.70	0.06372	(10122817)	609619.09
4202427.70	0.06048	(10122817)		
609634.09	4202427.70	0.05821	(11123023)	609649.09
4202427.70	0.05563	(11123023)		
609664.09	4202427.70	0.05213	(11123023)	609679.09
4202427.70	0.04801	(11123023)		
609694.09	4202427.70	0.04353	(11123023)	609709.09
4202427.70	0.03891	(11123023)		
609724.09	4202427.70	0.03733	(12020722)	609439.09
4202472.70	0.08444	(10020523)		
609454.09	4202472.70	0.08263	(12021724)	609469.09
4202472.70	0.08060	(12120608)		
609484.09	4202472.70	0.07666	(12120608)	609499.09
4202472.70	0.07487	(13020722)		

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 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\*  
 \*\*\* AERMET - VERSION 14134 \*\*\*

10/28/21

\*\*\* 11:32:22

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

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

INCLUDING SOURCE(S): PAREA4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609514.09	4202472.70	0.07326	(12120506)	609529.09
4202472.70	0.07031	(12120506)		
609544.09	4202472.70	0.06643	(10012518)	609559.09
4202472.70	0.06327	(13011002)		
609574.09	4202472.70	0.06183	(09022423)	609589.09
4202472.70	0.06051	(09022423)		
609604.09	4202472.70	0.05739	(09021721)	609619.09
4202472.70	0.05559	(09021721)		
609634.09	4202472.70	0.05339	(09122922)	609649.09
4202472.70	0.05057	(10122817)		
609664.09	4202472.70	0.04988	(10122817)	609679.09
4202472.70	0.04807	(10122817)		
609694.09	4202472.70	0.04605	(12121607)	609319.09
4202487.70	0.09092	(10012801)		
609334.09	4202487.70	0.09237	(10120908)	609349.09
4202487.70	0.08701	(10121108)		
609364.09	4202487.70	0.08568	(11020103)	609394.09
4202487.70	0.08354	(10121808)		
609409.09	4202487.70	0.08287	(09022220)	609424.09
4202487.70	0.08000	(11022222)		
609439.09	4202487.70	0.07941	(12021206)	609454.09
4202487.70	0.07821	(09022307)		
609469.09	4202487.70	0.07592	(10022423)	609484.09
4202487.70	0.07430	(12120608)		
609499.09	4202487.70	0.07030	(10021424)	609514.09
4202487.70	0.06904	(11010201)		
609529.09	4202487.70	0.06792	(12120506)	609544.09
4202487.70	0.06451	(12120506)		
609559.09	4202487.70	0.06138	(10012518)	609574.09
4202487.70	0.05861	(13011002)		
609589.09	4202487.70	0.05740	(09022423)	609604.09
4202487.70	0.05632	(09022423)		
609619.09	4202487.70	0.05329	(09022423)	609634.09
4202487.70	0.05213	(09021721)		

609649.09	4202487.70	0.05033	(09122922)	609664.09
4202487.70	0.04752	(10020522)		
609679.09	4202487.70	0.04666	(10122817)	609184.09
4202502.70	0.07476	(10010218)		
609199.09	4202502.70	0.07600	(10010218)	609214.09
4202502.70	0.07614	(11011921)		
609229.09	4202502.70	0.07964	(12122821)	609244.09
4202502.70	0.08182	(10121308)		
609259.09	4202502.70	0.08298	(09121604)	609274.09
4202502.70	0.08455	(11123003)		
609289.09	4202502.70	0.08433	(09011124)	609304.09
4202502.70	0.08572	(11012907)		
609319.09	4202502.70	0.08565	(10012801)	609334.09
4202502.70	0.08688	(10120908)		
609349.09	4202502.70	0.08173	(10121108)	609364.09
4202502.70	0.08045	(09120508)		
609394.09	4202502.70	0.07931	(10121808)	609409.09
4202502.70	0.07796	(09022220)		
609424.09	4202502.70	0.07567	(10020719)	609439.09
4202502.70	0.07487	(12021206)		
609454.09	4202502.70	0.07400	(10020523)	609469.09
4202502.70	0.07221	(12021724)		
609484.09	4202502.70	0.07035	(12120608)	609499.09
4202502.70	0.06790	(12120608)		
609514.09	4202502.70	0.06538	(13020722)	609529.09
4202502.70	0.06407	(11010201)		
609544.09	4202502.70	0.06302	(12120506)	609559.09
4202502.70	0.05939	(10122303)		
609574.09	4202502.70	0.05690	(10012518)	609589.09
4202502.70	0.05450	(13011002)		
609604.09	4202502.70	0.05346	(09022423)	609619.09
4202502.70	0.05267	(09022423)		
609634.09	4202502.70	0.05019	(09022423)	609649.09
4202502.70	0.04903	(09021721)		
609664.09	4202502.70	0.04741	(09122922)	609064.09
4202517.70	0.05547	(09122817)		
609079.09	4202517.70	0.05660	(13012924)	609094.09
4202517.70	0.05821	(13012924)		
609109.09	4202517.70	0.06161	(09021623)	609124.09
4202517.70	0.06320	(12122304)		
609139.09	4202517.70	0.06561	(12122304)	609154.09
4202517.70	0.06752	(11021706)		
609169.09	4202517.70	0.06967	(09012124)	609184.09
4202517.70	0.07153	(10010218)		
609199.09	4202517.70	0.07103	(13120920)	609214.09
4202517.70	0.07334	(11011921)		

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 \*\*\* AERMET - VERSION 14134 \*\*\*    \*\*\*

10/28/21

\*\*\* 11:32:22

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

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

INCLUDING SOURCE(S): PAREA4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609229.09	4202517.70	0.07588	(10121308)	609244.09
4202517.70	0.07770	(10122619)		
609259.09	4202517.70	0.07793	(10010508)	609274.09
4202517.70	0.07975	(11123003)		
609289.09	4202517.70	0.07940	(09022320)	609304.09
4202517.70	0.08075	(11012907)		
609319.09	4202517.70	0.08082	(10012801)	609334.09
4202517.70	0.08189	(10120908)		
609349.09	4202517.70	0.07698	(10121108)	609364.09
4202517.70	0.07587	(09120508)		
609409.09	4202517.70	0.07316	(11122819)	609424.09
4202517.70	0.07212	(09022220)		
609439.09	4202517.70	0.06977	(11022222)	609454.09
4202517.70	0.06950	(10020523)		
609469.09	4202517.70	0.06853	(09022307)	609484.09
4202517.70	0.06677	(10022423)		
609499.09	4202517.70	0.06558	(12120608)	609514.09
4202517.70	0.06190	(10021424)		
609529.09	4202517.70	0.06113	(13020722)	609544.09
4202517.70	0.05983	(09022424)		
609559.09	4202517.70	0.05855	(12120506)	609574.09
4202517.70	0.05504	(10122303)		
609589.09	4202517.70	0.05292	(10012518)	609604.09
4202517.70	0.05085	(13011002)		
609619.09	4202517.70	0.04996	(09022423)	609634.09
4202517.70	0.04940	(09022423)		
609649.09	4202517.70	0.04728	(09022423)	609079.09
4202532.70	0.05460	(13012924)		
609094.09	4202532.70	0.05750	(09021623)	609109.09
4202532.70	0.05914	(11121408)		
609124.09	4202532.70	0.06144	(12122304)	609139.09
4202532.70	0.06262	(11021706)		

609154.09	4202532.70	0.06463	(09012124)	609169.09
4202532.70	0.06654	(10010218)		
609184.09	4202532.70	0.06706	(10010218)	609199.09
4202532.70	0.06714	(13120920)		
609214.09	4202532.70	0.07008	(12122821)	609229.09
4202532.70	0.07239	(10121308)		
609244.09	4202532.70	0.07348	(10122619)	609259.09
4202532.70	0.07378	(10010508)		
609274.09	4202532.70	0.07502	(11123003)	609289.09
4202532.70	0.07550	(09022320)		
609304.09	4202532.70	0.07611	(11012907)	609319.09
4202532.70	0.07637	(10012801)		
609334.09	4202532.70	0.07735	(10120908)	609349.09
4202532.70	0.07268	(10120908)		
609364.09	4202532.70	0.07165	(09120508)	609409.09
4202532.70	0.06916	(11122819)		
609424.09	4202532.70	0.06873	(09022220)	609439.09
4202532.70	0.06643	(11022222)		
609454.09	4202532.70	0.06606	(12021206)	609469.09
4202532.70	0.06504	(10020523)		
609484.09	4202532.70	0.06372	(10022423)	609499.09
4202532.70	0.06204	(12120608)		
609514.09	4202532.70	0.06062	(12120608)	609529.09
4202532.70	0.05771	(10021424)		
609544.09	4202532.70	0.05703	(13020722)	609559.09
4202532.70	0.05604	(12120506)		
609574.09	4202532.70	0.05448	(12120506)	609589.09
4202532.70	0.05141	(10012518)		
609604.09	4202532.70	0.04936	(10012518)	609619.09
4202532.70	0.04760	(13011002)		
609094.09	4202547.70	0.05544	(11121408)	609109.09
4202547.70	0.05745	(12122304)		
609124.09	4202547.70	0.05844	(11122707)	609139.09
4202547.70	0.06034	(11021706)		
609154.09	4202547.70	0.06211	(09012124)	609169.09
4202547.70	0.06367	(10010218)		
609184.09	4202547.70	0.06309	(13120920)	609199.09
4202547.70	0.06477	(11011921)		
609214.09	4202547.70	0.06676	(12122821)	609229.09
4202547.70	0.06850	(10121308)		
609244.09	4202547.70	0.06964	(09121604)	609259.09
4202547.70	0.07034	(11123003)		
609274.09	4202547.70	0.07065	(09011124)	609289.09
4202547.70	0.07187	(09022320)		
609304.09	4202547.70	0.07186	(11012907)	609319.09
4202547.70	0.07237	(10012801)		
609334.09	4202547.70	0.07322	(10120908)	609349.09
4202547.70	0.06880	(10120908)		

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\*\*\* AERMET - VERSION 14134 \*\*\*  
\*\*\* 11:32:22

PAGE 63

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
VALUES FOR SOURCE GROUP: ALL \*\*\*  
INCLUDING SOURCE(S): PAREA4 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609364.09	4202547.70	0.06775	(09120508)	609409.09
4202547.70	0.06519	(11122819)		
609424.09	4202547.70	0.06518	(09022220)	609439.09
4202547.70	0.06307	(10020719)		
609454.09	4202547.70	0.06220	(12021206)	609469.09
4202547.70	0.06162	(10020523)		
609484.09	4202547.70	0.06072	(12021724)	609499.09
4202547.70	0.05937	(10022423)		
609514.09	4202547.70	0.05839	(12120608)	609529.09
4202547.70	0.05567	(12120608)		
609544.09	4202547.70	0.05422	(13020722)	609559.09
4202547.70	0.05338	(11010201)		
609574.09	4202547.70	0.05267	(12120506)	609589.09
4202547.70	0.05075	(12120506)		
609109.09	4202562.70	0.05500	(12122304)	609124.09
4202562.70	0.05661	(11021706)		
609139.09	4202562.70	0.05823	(09012124)	609154.09
4202562.70	0.05972	(10010218)		
609169.09	4202562.70	0.05979	(10010218)	609184.09
4202562.70	0.06002	(13120920)		
609199.09	4202562.70	0.06223	(12122821)	609214.09
4202562.70	0.06435	(10121308)		
609229.09	4202562.70	0.06560	(10122619)	609244.09
4202562.70	0.06579	(09121604)		
609259.09	4202562.70	0.06727	(11123003)	609274.09
4202562.70	0.06716	(09011124)		
609289.09	4202562.70	0.06842	(09022320)	609304.09
4202562.70	0.06793	(11012907)		
609319.09	4202562.70	0.06870	(10012801)	609334.09
4202562.70	0.06944	(10120908)		



609349.09	4202562.70	0.06524	(10120908)	609364.09
4202562.70	0.06415	(09120508)		
609409.09	4202562.70	0.06226	(10121808)	609424.09
4202562.70	0.06155	(09022220)		
609439.09	4202562.70	0.06030	(09022220)	609454.09
4202562.70	0.05864	(11022222)		
609469.09	4202562.70	0.05861	(12021206)	609484.09
4202562.70	0.05785	(09022307)		
609499.09	4202562.70	0.05684	(10022423)	609514.09
4202562.70	0.05521	(12120608)		
609529.09	4202562.70	0.05450	(12120608)	609544.09
4202562.70	0.05168	(10021424)		
609559.09	4202562.70	0.05118	(13020722)	609574.09
4202562.70	0.05013	(09022424)		
609124.09	4202577.70	0.05423	(09012124)	609139.09
4202577.70	0.05572	(09012124)		
609154.09	4202577.70	0.05711	(10010218)	609169.09
4202577.70	0.05654	(13120920)		
609184.09	4202577.70	0.05776	(11011921)	609199.09
4202577.70	0.05987	(12122821)		
609214.09	4202577.70	0.06164	(10121308)	609229.09
4202577.70	0.06254	(10122619)		
609244.09	4202577.70	0.06268	(10010508)	609259.09
4202577.70	0.06413	(11123003)		
609274.09	4202577.70	0.06375	(09011124)	609289.09
4202577.70	0.06513	(09022320)		
609304.09	4202577.70	0.06426	(11012907)	609319.09
4202577.70	0.06533	(12012604)		
609334.09	4202577.70	0.06600	(10120908)	609349.09
4202577.70	0.06202	(10120908)		
609364.09	4202577.70	0.06084	(11012906)	609409.09
4202577.70	0.05964	(10121808)		
609424.09	4202577.70	0.05833	(11122819)	609439.09
4202577.70	0.05796	(09022220)		
609454.09	4202577.70	0.05611	(11022222)	609469.09
4202577.70	0.05574	(12021206)		
609484.09	4202577.70	0.05519	(10020523)	609499.09
4202577.70	0.05440	(12021724)		
609514.09	4202577.70	0.05326	(10022423)	609529.09
4202577.70	0.05238	(12120608)		
609544.09	4202577.70	0.05053	(12120608)	609139.09
4202592.70	0.05397	(10010218)		
609154.09	4202592.70	0.05369	(10010218)	609169.09
4202592.70	0.05400	(13120920)		
609184.09	4202592.70	0.05582	(11011921)	609199.09
4202592.70	0.05740	(10121308)		
609214.09	4202592.70	0.05856	(10121308)	609229.09
4202592.70	0.05960	(09121604)		
609244.09	4202592.70	0.05979	(10010508)	609259.09
4202592.70	0.06098	(11123003)		

▲ \*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\*      10/28/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*      \*\*\*  
                                  \*\*\*      11:32:22

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

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

INCLUDING SOURCE(S):      PAREA4      ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>    IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609274.09	4202592.70	0.06046	(09011124)	609289.09
4202592.70	0.06200	(09022320)		
609304.09	4202592.70	0.06083	(11012907)	609319.09
4202592.70	0.06230	(12012604)		
609334.09	4202592.70	0.06283	(10120908)	609349.09
4202592.70	0.05908	(10120908)		
609364.09	4202592.70	0.05790	(11012906)	609409.09
4202592.70	0.05704	(10121808)		
609424.09	4202592.70	0.05559	(11122819)	609439.09
4202592.70	0.05544	(09022220)		
609454.09	4202592.70	0.05356	(10020719)	609469.09
4202592.70	0.05257	(12021206)		
609484.09	4202592.70	0.05244	(12021206)	609499.09
4202592.70	0.05202	(09022307)		
609514.09	4202592.70	0.05113	(10022423)	609529.09
4202592.70	0.04950	(12120608)		
609169.09	4202607.70	0.05182	(11011921)	609184.09
4202607.70	0.05392	(12122821)		
609199.09	4202607.70	0.05554	(10121308)	609214.09
4202607.70	0.05643	(10122619)		
609229.09	4202607.70	0.05675	(09121604)	609244.09
4202607.70	0.05736	(11123003)		
609259.09	4202607.70	0.05785	(11123003)	609274.09
4202607.70	0.05767	(09022320)		
609289.09	4202607.70	0.05902	(09022320)	609304.09
4202607.70	0.05763	(11012907)		
609319.09	4202607.70	0.05949	(12012604)	609334.09
4202607.70	0.05991	(10120908)		

609349.09	4202607.70	0.05637	(10120908)	609364.09
4202607.70	0.05519	(11012906)		
609409.09	4202607.70	0.05450	(10121808)	609424.09
4202607.70	0.05286	(11122819)		
609439.09	4202607.70	0.05283	(09022220)	609454.09
4202607.70	0.05129	(09022220)		
609469.09	4202607.70	0.05017	(11022222)	609484.09
4202607.70	0.05030	(12021206)		
609499.09	4202607.70	0.04982	(10020523)	609199.09
4202622.70	0.05330	(10121308)		
609214.09	4202622.70	0.05408	(10122619)	609229.09
4202622.70	0.05397	(10010508)		
609244.09	4202622.70	0.05524	(11123003)	609259.09
4202622.70	0.05500	(09011124)		
609274.09	4202622.70	0.05554	(09022320)	609289.09
4202622.70	0.05639	(11012907)		
609304.09	4202622.70	0.05509	(12022721)	609319.09
4202622.70	0.05687	(12012604)		
609334.09	4202622.70	0.05721	(10120908)	609349.09
4202622.70	0.05387	(10120908)		
609364.09	4202622.70	0.05266	(11012906)	609409.09
4202622.70	0.05201	(10121808)		
609424.09	4202622.70	0.05045	(10121808)	609439.09
4202622.70	0.05016	(09022220)		
609454.09	4202622.70	0.04963	(09022220)	609469.09
4202622.70	0.04820	(11022222)		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
 \*\*\* 11:32:22

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

\*\*\* THE SUMMARY OF MAXIMUM ANNUAL RESULTS

AVERAGED OVER 5 YEARS \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

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

-----

ALL 1ST HIGHEST VALUE IS 0.03429 AT ( 609409.09, 4202202.70,  
 40.02, 40.02, 0.00) DC

40.10, 2ND HIGHEST VALUE IS 0.02826 AT ( 609409.09, 4202187.70,  
 40.10, 0.00) DC  
 40.00, 3RD HIGHEST VALUE IS 0.02811 AT ( 609424.09, 4202232.70,  
 40.00, 0.00) DC  
 40.00, 4TH HIGHEST VALUE IS 0.02656 AT ( 609424.09, 4202247.70,  
 40.00, 0.00) DC  
 40.03, 5TH HIGHEST VALUE IS 0.02633 AT ( 609424.09, 4202202.70,  
 40.03, 0.00) DC  
 40.00, 6TH HIGHEST VALUE IS 0.02352 AT ( 609424.09, 4202262.70,  
 40.00, 0.00) DC  
 40.21, 7TH HIGHEST VALUE IS 0.02302 AT ( 609424.09, 4202187.70,  
 40.21, 0.00) DC  
 41.00, 8TH HIGHEST VALUE IS 0.02263 AT ( 609274.09, 4202217.70,  
 41.00, 0.00) DC  
 41.00, 9TH HIGHEST VALUE IS 0.02242 AT ( 609274.09, 4202202.70,  
 41.00, 0.00) DC  
 41.00, 10TH HIGHEST VALUE IS 0.02161 AT ( 609274.09, 4202232.70,  
 41.00, 0.00) DC

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

^ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 11:32:22

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

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

RESULTS \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M\*\*3

\*\*

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

ALL HIGH 1ST HIGH VALUE IS 0.28892 ON 10020504: AT ( 609274.09,  
 4202202.70, 41.00, 41.00, 0.00) DC

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

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Lakes\AERMOD  
View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/28/21  
\*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
\*\*\* 11:32:22

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

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

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

A Total of 0 Fatal Error Message(s)  
A Total of 1 Warning Message(s)  
A Total of 15235 Informational Message(s)  
  
A Total of 43872 Hours Were Processed  
  
A Total of 13448 Calm Hours Identified  
  
A Total of 1787 Missing Hours Identified ( 4.07 Percent)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
MX W481 43873 MAIN: Data Remaining After End of Year. Number of Hours=  
48

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

```

**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.0.0
** Lakes Environmental Software Inc.
** Date: 10/22/2021
** File: C:\Lakes\AERMOD View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel.ADI
**

```

```

*****
**
**
*****
** AERMOD Control Pathway
*****
**
**

```

```

CO STARTING
  TITLEONE C:\Lakes\AERMOD View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel
  MODELOPT DFAULT CONC
  AVERTIME 1 ANNUAL
  URBANOPT 111502 Antioch
  POLLUTID BENZENE
  RUNORNOT RUN
  ERRORFIL 5200LoneTree_OnsiteFuel.err
CO FINISHED

```

```

*****
** AERMOD Source Pathway
*****
**
**

```

```

SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
LOCATION STCK1      POINT      609351.670  4202274.230  40.050
** DESCRSRC USTs
LOCATION VOL2      VOLUME      609354.650  4202250.260  40.500
** Source Parameters **
SRCPARAM STCK1      0.0002    3.660    0.000    1.00000    0.050
SRCPARAM VOL2      0.0003    1.000    8.140    5.000
URBANSRC ALL
SRCGROUP ALL

```

```

SO FINISHED
**
*****
** AERMOD Receptor Pathway
*****
**

```

```
**
RE STARTING
  INCLUDED 5200LoneTree_OnsiteFuel.rou
RE FINISHED
**
*****
** AERMOD Meteorology Pathway
*****
**
**
ME STARTING
  SURFFILE "C:\Users\kheck\Desktop\Met Data\Livermore_2009-2014\724927.SFC"
  PROFFILE "C:\Users\kheck\Desktop\Met Data\Livermore_2009-2014\724927.PFL"
  SURFDATA 23285 2009
  UAIRDATA 23230 2009 OAKLAND/WSO_AP
  PROFBASE 125.0 METERS
ME FINISHED
**
*****
** AERMOD Output Pathway
*****
**
**
OU STARTING
  RECTABLE ALLAVE 1ST
  RECTABLE 1 1ST
** Auto-Generated Plotfiles
  PLOTFILE 1 ALL 1ST 5200LONETREE_ONSITEFUEL.AD\01H1GALL.PLT 31
  PLOTFILE ANNUAL ALL 5200LONETREE_ONSITEFUEL.AD\AN00GALL.PLT 32
  SUMMFILE 5200LoneTree_OnsiteFuel.sum
OU FINISHED
**
*****
** Project Parameters
*****
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     10
** ZONEINX  0
**
```

```

**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.0.0
** Lakes Environmental Software Inc.
** Date: 10/22/2021
** File: C:\Lakes\AERMOD View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel.ADI
**

```

```

*****
**
**
*****

```

```

** AERMOD Control Pathway
*****
**
**

```

```

CO STARTING
  TITLEONE C:\Lakes\AERMOD View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel
  MODELOPT DFAULT CONC
  AVERTIME 1 ANNUAL
  URBANOPT 111502 Antioch
  POLLUTID BENZENE
  RUNORNOT RUN
  ERRORFIL 5200LoneTree_OnsiteFuel.err
CO FINISHED

```

```

**
*****

```

```

** AERMOD Source Pathway
*****
**
**

```

```

SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
  LOCATION STCK1      POINT      609351.670  4202274.230  40.050
** DESCRSRC USTs
  LOCATION VOL2      VOLUME      609354.650  4202250.260  40.500
** Source Parameters **
  SRCPARAM STCK1      0.0002      3.660      0.000      1.00000      0.050
  SRCPARAM VOL2      0.0003      1.000      8.140      5.000
  URBANSRC ALL
  SRCGROUP ALL
SO FINISHED

```

```

**
*****

```

```

** AERMOD Receptor Pathway
*****
**
**

```



RE STARTING  
INCLUDED 5200LoneTree\_OnsiteFuel.rou  
RE FINISHED

\*\*  
\*\*\*\*\*  
\*\* AERMOD Meteorology Pathway  
\*\*\*\*\*

\*\*  
\*\*  
ME STARTING  
SURFFILE "C:\Users\kheck\Desktop\Met Data\Livermore\_2009-2014\724927.SFC"  
PROFFILE "C:\Users\kheck\Desktop\Met Data\Livermore\_2009-2014\724927.PFL"  
SURFDATA 23285 2009  
UAIRDATA 23230 2009 OAKLAND/WSO\_AP  
PROFBASE 125.0 METERS

ME FINISHED  
\*\*  
\*\*\*\*\*  
\*\* AERMOD Output Pathway  
\*\*\*\*\*

\*\*  
\*\*  
OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 1 1ST  
\*\* Auto-Generated Plotfiles  
PLOTFILE 1 ALL 1ST 5200LONETREE\_ONSITEFUEL.AD\01H1GALL.PLT 31  
PLOTFILE ANNUAL ALL 5200LONETREE\_ONSITEFUEL.AD\AN00GALL.PLT 32  
SUMMFILE 5200LoneTree\_OnsiteFuel.sum

OU FINISHED  
\*\*\*\*\*  
\*\*\* SETUP Finishes Successfully \*\*\*  
\*\*\*\*\*

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/22/21  
\*\*\* AERMET - VERSION 14134 \*\*\*  
\*\*\* 11:10:05

PAGE 1  
\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN

\*\*\* MODEL SETUP OPTIONS SUMMARY

\*\*\*

-----  
-----

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

-- DEPOSITION LOGIC --

\*\*NO GAS DEPOSITION Data Provided.

\*\*NO PARTICLE DEPOSITION Data Provided.

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

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

\*\*Model Uses URBAN Dispersion Algorithm for the SBL for 2 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 111502.0 ; Urban Roughness Length = 1.000 m

\*\*Model Uses Regulatory DEFAULT Options:

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

\*\*Other Options Specified:

CCVR\_Sub - Meteorological data includes CCVR substitutions

TEMP\_Sub - Meteorological data includes TEMP substitutions

\*\*Model Assumes No FLAGPOLE Receptor Heights.

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

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

\*\*This Run Includes: 2 Source(s); 1 Source Group(s); and 1574  
Receptor(s)

with: 1 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 1 VOLUME source(s)  
and: 0 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)

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

\*\*The AERMET Input Meteorological Data Version Date: 14134

\*\*Output Options Selected:

Model Outputs Tables of ANNUAL Averages by Receptor

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE  
Keyword)

Model Outputs External File(s) of High Values for Plotting (PLOTFILE  
 Keyword)  
 Model Outputs Separate Summary File of High Ranked Values (SUMMFILE  
 Keyword)

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

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 125.00 ; Decay  
 Coef. = 0.000 ; Rot. Angle = 0.0  
 Emission Units = GRAMS/SEC ;  
 Emission Rate Unit Factor = 0.10000E+07  
 Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.7 MB of RAM.

\*\*Input Runstream File: aermod.inp

\*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: 5200LoneTree\_OnsiteFuel.err

\*\*File for Summary of Results: 5200LoneTree\_OnsiteFuel.sum

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/22/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
 \*\*\* 11:10:05

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

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

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

STCK1	0	0.20000E-03	609351.7	4202274.2	40.0	3.66	-0.00	
1.00	0.05	NO	YES	NO				

^ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/22/21  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 11:10:05

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN  
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\*\*\* VOLUME SOURCE DATA \*\*\*

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

VOL2 0 0.30000E-03 609354.7 4202250.3 40.5 1.00 8.14  
 5.00 YES

^ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/22/21  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 11:10:05

\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN  
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\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID SOURCE IDs  
 -----

ALL STCK1 , VOL2 ,

^ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/22/21  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN  
 PAGE 5

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

\*\*\*

URBAN ID      URBAN POP  
-----

SOURCE IDs  
-----

111502.    STCK1                    , VOL2                    ,  
▲ \*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* C:\Lakes\AERMOD  
View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\*                    10/22/21  
\*\*\* AERMET - VERSION 14134 \*\*\*    \*\*\*  
   \*\*\*                    11:10:05

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

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

( 609304.1, 4201857.7, 44.0, 66.0, 0.0);	( 609319.1, 4201857.7, 43.7, 66.0, 0.0);
( 609334.1, 4201857.7, 43.9, 66.0, 0.0);	( 609349.1, 4201857.7, 44.4, 66.0, 0.0);
( 609364.1, 4201857.7, 44.6, 44.6, 0.0);	( 609379.1, 4201857.7, 44.6, 44.6, 0.0);
( 609394.1, 4201857.7, 44.6, 44.6, 0.0);	( 609259.1, 4201872.7, 43.2, 66.0, 0.0);
( 609304.1, 4201872.7, 43.2, 66.0, 0.0);	( 609319.1, 4201872.7, 43.1, 66.0, 0.0);
( 609334.1, 4201872.7, 43.4, 66.0, 0.0);	( 609349.1, 4201872.7, 43.9, 43.9, 0.0);
( 609364.1, 4201872.7, 44.1, 44.1, 0.0);	( 609379.1, 4201872.7, 44.1, 44.1, 0.0);
( 609394.1, 4201872.7, 44.1, 44.1, 0.0);	( 609409.1, 4201872.7, 44.1, 44.1, 0.0);
( 609424.1, 4201872.7, 44.1, 44.1, 0.0);	( 609439.1, 4201872.7, 44.1, 44.1, 0.0);
( 609454.1, 4201872.7, 44.1, 44.1, 0.0);	( 609199.1, 4201887.7, 42.1, 76.0, 0.0);
( 609214.1, 4201887.7, 42.2, 66.0, 0.0);	( 609229.1, 4201887.7, 42.2, 66.0, 0.0);
( 609244.1, 4201887.7, 42.3, 66.0, 0.0);	( 609259.1, 4201887.7, 42.5, 66.0, 0.0);
( 609274.1, 4201887.7, 42.6, 66.0, 0.0);	( 609304.1, 4201887.7, 42.6, 66.0, 0.0);
( 609319.1, 4201887.7, 42.6, 66.0, 0.0);	( 609334.1, 4201887.7, 42.9, 42.9, 0.0);
( 609349.1, 4201887.7, 43.4, 43.4, 0.0);	( 609364.1, 4201887.7, 43.6, 43.6, 0.0);
( 609379.1, 4201887.7, 43.6, 43.6, 0.0);	( 609394.1, 4201887.7, 43.7, 43.7, 0.0);

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^ *** AERMOD - VERSION 2112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel *** 10/22/21
*** AERMET - VERSION 14134 *** ***
*** 11:10:05

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PAGE 7

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

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

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^ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel *** 10/22/21
*** AERMET - VERSION 14134 *** ***
*** 11:10:05

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

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

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^ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel *** 10/22/21
*** AERMET - VERSION 14134 *** ***
*** 11:10:05

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

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

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^ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel *** 10/22/21
*** AERMET - VERSION 14134 *** ***
*** 11:10:05

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

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

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^ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel *** 10/22/21
*** AERMET - VERSION 14134 *** ***
*** 11:10:05

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

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

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^ *** AERMOD - VERSION 21112 *** C:\Lakes\AERMOD
View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel *** 10/22/21
*** AERMET - VERSION 14134 ***
*** 11:10:05

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

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

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^ *** AERMOD - VERSION 21112 *** C:\Lakes\AERMOD
View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel *** 10/22/21
*** AERMET - VERSION 14134 ***
*** 11:10:05

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PAGE 13

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

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

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^ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel *** 10/22/21
*** AERMET - VERSION 14134 *** ***
*** 11:10:05

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

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

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^ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel *** 10/22/21
*** AERMET - VERSION 14134 *** ***
*** 11:10:05

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

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

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^ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel *** 10/22/21
*** AERMET - VERSION 14134 *** ***
*** 11:10:05

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PAGE 16

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

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

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^ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel *** 10/22/21
*** AERMET - VERSION 14134 *** ***
*** 11:10:05

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PAGE 17

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

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

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▲ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel *** 10/22/21
*** AERMET - VERSION 14134 *** ***
*** 11:10:05

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

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

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^ *** AERMOD - VERSION 21112 *** C:\Lakes\AERMOD
View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel *** 10/22/21
*** AERMET - VERSION 14134 ***
*** 11:10:05

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PAGE 19

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

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

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^ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel *** 10/22/21
*** AERMET - VERSION 14134 *** ***
*** 11:10:05

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

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

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^ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel *** 10/22/21
*** AERMET - VERSION 14134 *** ***
*** 11:10:05

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

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

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^ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel *** 10/22/21
*** AERMET - VERSION 14134 *** ***
*** 11:10:05

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

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

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^ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel *** 10/22/21
*** AERMET - VERSION 14134 *** ***
*** 11:10:05

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

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

(METERS)

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▲ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\*

10/22/21

\*\*\* AERMET - VERSION 14134 \*\*\*

\*\*\* 11:10:05







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1.00 2.86 64. 10.0 279.2 2.0
09 01 01 1 20 -5.8 0.078 -9.000 -9.000 -999. 53. 7.3 0.11 0.90
1.00 1.76 47. 10.0 278.8 2.0
09 01 01 1 21 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.10 0.90
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09 01 01 1 23 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0 0.10 0.90
1.00 0.00 0. 10.0 277.0 2.0
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1.00 0.00 0. 10.0 277.0 2.0

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First hour of profile data

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YR MO DY HR HEIGHT F WDIR WSPD AMB_TMP sigmaA sigmaW sigmaV
09 01 01 01 10.0 1 51. 2.86 279.3 99.0 -99.00 -99.00

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

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*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_OnsiteFuel\5200LoneTree_OnsiteFuel *** 10/22/21
*** AERMET - VERSION 14134 *** ***
*** 11:10:05

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

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*** THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5
YEARS FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): STCK1 , VOL2

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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

```

X-COORD (M) Y-COORD (M) CONC X-COORD (M)
Y-COORD (M) CONC
-----
609304.09 4201857.70 0.00106 609319.09
4201857.70 0.00106
609334.09 4201857.70 0.00106 609349.09
4201857.70 0.00106
609364.09 4201857.70 0.00106 609379.09
4201857.70 0.00107
609394.09 4201857.70 0.00107 609259.09
4201872.70 0.00115

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609304.09	4201872.70	0.00114	609319.09
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609334.09	4201872.70	0.00114	609349.09
4201872.70	0.00114		
609364.09	4201872.70	0.00114	609379.09
4201872.70	0.00114		
609394.09	4201872.70	0.00115	609409.09
4201872.70	0.00115		
609424.09	4201872.70	0.00116	609439.09
4201872.70	0.00118		
609454.09	4201872.70	0.00120	609199.09
4201887.70	0.00129		
609214.09	4201887.70	0.00127	609229.09
4201887.70	0.00125		
609244.09	4201887.70	0.00124	609259.09
4201887.70	0.00123		
609274.09	4201887.70	0.00123	609304.09
4201887.70	0.00122		
609319.09	4201887.70	0.00122	609334.09
4201887.70	0.00122		
609349.09	4201887.70	0.00122	609364.09
4201887.70	0.00122		
609379.09	4201887.70	0.00123	609394.09
4201887.70	0.00123		
609409.09	4201887.70	0.00124	609424.09
4201887.70	0.00125		
609439.09	4201887.70	0.00127	609454.09
4201887.70	0.00129		
609469.09	4201887.70	0.00132	609484.09
4201887.70	0.00136		
609499.09	4201887.70	0.00140	609169.09
4201902.70	0.00146		
609184.09	4201902.70	0.00143	609199.09
4201902.70	0.00140		
609214.09	4201902.70	0.00138	609229.09
4201902.70	0.00136		
609244.09	4201902.70	0.00134	609259.09
4201902.70	0.00133		
609274.09	4201902.70	0.00132	609319.09
4201902.70	0.00132		
609334.09	4201902.70	0.00132	609349.09
4201902.70	0.00131		
609364.09	4201902.70	0.00132	609379.09
4201902.70	0.00132		
609394.09	4201902.70	0.00133	609409.09
4201902.70	0.00133		
609424.09	4201902.70	0.00135	609439.09
4201902.70	0.00137		
609454.09	4201902.70	0.00140	609469.09
4201902.70	0.00143		

609484.09	4201902.70	0.00148	609499.09
4201902.70	0.00153		
609514.09	4201902.70	0.00159	609529.09
4201902.70	0.00166		
609139.09	4201917.70	0.00165	609154.09
4201917.70	0.00162		
609169.09	4201917.70	0.00159	609184.09
4201917.70	0.00156		
609199.09	4201917.70	0.00153	609214.09
4201917.70	0.00150		
609229.09	4201917.70	0.00148	609244.09
4201917.70	0.00146		
609259.09	4201917.70	0.00144	609274.09
4201917.70	0.00143		
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4201917.70	0.00142		
609334.09	4201917.70	0.00142	609349.09
4201917.70	0.00142		
609364.09	4201917.70	0.00142	609379.09
4201917.70	0.00143		
609394.09	4201917.70	0.00143	609409.09
4201917.70	0.00144		

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 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\*    10/22/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*    \*\*\*  
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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER    5  
 YEARS FOR SOURCE GROUP: ALL    \*\*\*  
                                  INCLUDING SOURCE(S):    STCK1    , VOL2  
 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
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4201917.70	0.00157		
609484.09	4201917.70	0.00162	609499.09

4201917.70	0.00168			
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4201917.70	0.00184			
609544.09	4201917.70	0.00193		609109.09
4201932.70	0.00187			
609124.09	4201932.70	0.00184		609139.09
4201932.70	0.00180			
609154.09	4201932.70	0.00177		609169.09
4201932.70	0.00174			
609184.09	4201932.70	0.00170		609199.09
4201932.70	0.00167			
609214.09	4201932.70	0.00164		609229.09
4201932.70	0.00161			
609244.09	4201932.70	0.00158		609259.09
4201932.70	0.00157			
609274.09	4201932.70	0.00156		609289.09
4201932.70	0.00155			
609334.09	4201932.70	0.00154		609349.09
4201932.70	0.00154			
609364.09	4201932.70	0.00154		609379.09
4201932.70	0.00155			
609394.09	4201932.70	0.00156		609409.09
4201932.70	0.00157			
609424.09	4201932.70	0.00159		609439.09
4201932.70	0.00162			
609454.09	4201932.70	0.00166		609469.09
4201932.70	0.00172			
609484.09	4201932.70	0.00178		609499.09
4201932.70	0.00186			
609514.09	4201932.70	0.00195		609529.09
4201932.70	0.00204			
609544.09	4201932.70	0.00214		609559.09
4201932.70	0.00224			
609079.09	4201947.70	0.00212		609094.09
4201947.70	0.00209			
609109.09	4201947.70	0.00205		609124.09
4201947.70	0.00202			
609139.09	4201947.70	0.00198		609154.09
4201947.70	0.00195			
609169.09	4201947.70	0.00191		609184.09
4201947.70	0.00187			
609199.09	4201947.70	0.00183		609214.09
4201947.70	0.00179			
609229.09	4201947.70	0.00176		609244.09
4201947.70	0.00173			
609259.09	4201947.70	0.00171		609274.09
4201947.70	0.00169			
609289.09	4201947.70	0.00169		609304.09
4201947.70	0.00168			
609334.09	4201947.70	0.00168		609349.09

4201947.70	0.00168			
609364.09	4201947.70	0.00168		609379.09
4201947.70	0.00169			
609394.09	4201947.70	0.00170		609409.09
4201947.70	0.00171			
609424.09	4201947.70	0.00174		609439.09
4201947.70	0.00178			
609454.09	4201947.70	0.00183		609469.09
4201947.70	0.00189			
609484.09	4201947.70	0.00198		609499.09
4201947.70	0.00207			
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4201947.70	0.00229			
609544.09	4201947.70	0.00240		609559.09
4201947.70	0.00251			
609574.09	4201947.70	0.00261		609064.09
4201962.70	0.00234			
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4201962.70	0.00230			
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4201962.70	0.00223			
609139.09	4201962.70	0.00219		609154.09
4201962.70	0.00215			
609169.09	4201962.70	0.00211		609184.09
4201962.70	0.00207			

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 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\*    10/22/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*    \*\*\*  
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\*\*\* MODELOPTs:    RegDEFAULT    CONC    ELEV    URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER    5  
 YEARS FOR SOURCE GROUP: ALL    \*\*\*  
                                  INCLUDING SOURCE(S):    STCK1    , VOL2

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

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
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4201962.70	0.00185			
4201962.70	609289.09	4201962.70	0.00184	609304.09
4201962.70	0.00183			
4201962.70	609349.09	4201962.70	0.00183	609364.09
4201962.70	0.00184			
4201962.70	609379.09	4201962.70	0.00184	609394.09
4201962.70	0.00185			
4201962.70	609409.09	4201962.70	0.00188	609424.09
4201962.70	0.00191			
4201962.70	609439.09	4201962.70	0.00196	609454.09
4201962.70	0.00202			
4201962.70	609469.09	4201962.70	0.00210	609484.09
4201962.70	0.00220			
4201962.70	609499.09	4201962.70	0.00232	609514.09
4201962.70	0.00244			
4201962.70	609529.09	4201962.70	0.00257	609544.09
4201962.70	0.00270			
4201962.70	609559.09	4201962.70	0.00282	609574.09
4201962.70	0.00293			
4201962.70	609589.09	4201962.70	0.00302	609604.09
4201962.70	0.00310			
4201977.70	609049.09	4201977.70	0.00257	609064.09
4201977.70	0.00257			
4201977.70	609079.09	4201977.70	0.00256	609094.09
4201977.70	0.00253			
4201977.70	609109.09	4201977.70	0.00250	609124.09
4201977.70	0.00247			
4201977.70	609139.09	4201977.70	0.00243	609154.09
4201977.70	0.00239			
4201977.70	609169.09	4201977.70	0.00234	609184.09
4201977.70	0.00229			
4201977.70	609199.09	4201977.70	0.00224	609214.09
4201977.70	0.00219			
4201977.70	609229.09	4201977.70	0.00214	609244.09
4201977.70	0.00210			
4201977.70	609259.09	4201977.70	0.00206	609274.09
4201977.70	0.00204			
4201977.70	609289.09	4201977.70	0.00202	609304.09
4201977.70	0.00201			
4201977.70	609319.09	4201977.70	0.00201	609349.09
4201977.70	0.00201			
4201977.70	609364.09	4201977.70	0.00201	609379.09
4201977.70	0.00202			
4201977.70	609394.09	4201977.70	0.00204	609409.09
4201977.70	0.00207			
4201977.70	609424.09	4201977.70	0.00211	609439.09
4201977.70	0.00217			



609454.09	4201977.70	0.00226	609469.09
4201977.70	0.00236		
609484.09	4201977.70	0.00249	609499.09
4201977.70	0.00262		
609514.09	4201977.70	0.00277	609529.09
4201977.70	0.00292		
609544.09	4201977.70	0.00306	609559.09
4201977.70	0.00319		
609574.09	4201977.70	0.00330	609589.09
4201977.70	0.00339		
609604.09	4201977.70	0.00346	609619.09
4201977.70	0.00351		
609049.09	4201992.70	0.00281	609064.09
4201992.70	0.00281		
609079.09	4201992.70	0.00281	609094.09
4201992.70	0.00280		
609109.09	4201992.70	0.00278	609124.09
4201992.70	0.00275		
609139.09	4201992.70	0.00272	609154.09
4201992.70	0.00267		
609169.09	4201992.70	0.00262	609184.09
4201992.70	0.00256		
609199.09	4201992.70	0.00250	609214.09
4201992.70	0.00244		
609229.09	4201992.70	0.00239	609244.09
4201992.70	0.00233		
609259.09	4201992.70	0.00229	609274.09
4201992.70	0.00225		

▲ \*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN

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

INCLUDING SOURCE(S):    STCK1    , VOL2

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

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

-----

609289.09	4201992.70	0.00223	609304.09
4201992.70	0.00222		
609319.09	4201992.70	0.00221	609364.09
4201992.70	0.00222		
609379.09	4201992.70	0.00224	609394.09
4201992.70	0.00226		
609409.09	4201992.70	0.00229	609424.09
4201992.70	0.00235		
609439.09	4201992.70	0.00243	609454.09
4201992.70	0.00254		
609469.09	4201992.70	0.00267	609484.09
4201992.70	0.00283		
609499.09	4201992.70	0.00299	609514.09
4201992.70	0.00317		
609529.09	4201992.70	0.00333	609544.09
4201992.70	0.00348		
609559.09	4201992.70	0.00361	609574.09
4201992.70	0.00372		
609589.09	4201992.70	0.00380	609604.09
4201992.70	0.00386		
609619.09	4201992.70	0.00388	609634.09
4201992.70	0.00388		
609034.09	4202007.70	0.00307	609049.09
4202007.70	0.00308		
609064.09	4202007.70	0.00310	609079.09
4202007.70	0.00311		
609094.09	4202007.70	0.00310	609109.09
4202007.70	0.00309		
609124.09	4202007.70	0.00307	609139.09
4202007.70	0.00305		
609154.09	4202007.70	0.00300	609169.09
4202007.70	0.00294		
609184.09	4202007.70	0.00288	609199.09
4202007.70	0.00282		
609214.09	4202007.70	0.00275	609229.09
4202007.70	0.00268		
609244.09	4202007.70	0.00261	609259.09
4202007.70	0.00255		
609274.09	4202007.70	0.00251	609289.09
4202007.70	0.00248		
609304.09	4202007.70	0.00246	609319.09
4202007.70	0.00245		
609334.09	4202007.70	0.00245	609379.09
4202007.70	0.00249		
609394.09	4202007.70	0.00252	609409.09
4202007.70	0.00256		
609424.09	4202007.70	0.00264	609439.09
4202007.70	0.00274		
609454.09	4202007.70	0.00288	609469.09

4202007.70	0.00305			
	609484.09	4202007.70	0.00324	609499.09
4202007.70	0.00344			
	609514.09	4202007.70	0.00364	609529.09
4202007.70	0.00382			
	609544.09	4202007.70	0.00397	609559.09
4202007.70	0.00410			
	609574.09	4202007.70	0.00420	609589.09
4202007.70	0.00426			
	609604.09	4202007.70	0.00429	609619.09
4202007.70	0.00429			
	609634.09	4202007.70	0.00426	609649.09
4202007.70	0.00420			
	609034.09	4202022.70	0.00335	609049.09
4202022.70	0.00338			
	609064.09	4202022.70	0.00341	609079.09
4202022.70	0.00344			
	609094.09	4202022.70	0.00345	609109.09
4202022.70	0.00345			
	609124.09	4202022.70	0.00344	609139.09
4202022.70	0.00343			
	609154.09	4202022.70	0.00339	609169.09
4202022.70	0.00333			
	609184.09	4202022.70	0.00326	609199.09
4202022.70	0.00319			
	609214.09	4202022.70	0.00311	609229.09
4202022.70	0.00303			
	609244.09	4202022.70	0.00295	609259.09
4202022.70	0.00287			
	609274.09	4202022.70	0.00281	609289.09
4202022.70	0.00277			

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

\*\*\* THE ANNUAL AVERAGE CONCENTRATION      VALUES AVERAGED OVER      5  
 YEARS FOR SOURCE GROUP: ALL      \*\*\*  
                                  INCLUDING SOURCE(S):      STCK1      , VOL2  
 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
4202022.70	609304.09	4202022.70	0.00275	609319.09
4202022.70	609334.09	4202022.70	0.00273	609349.09
4202022.70	609379.09	4202022.70	0.00278	609394.09
4202022.70	609409.09	4202022.70	0.00289	609424.09
4202022.70	609439.09	4202022.70	0.00313	609454.09
4202022.70	609469.09	4202022.70	0.00352	609484.09
4202022.70	609499.09	4202022.70	0.00398	609514.09
4202022.70	609529.09	4202022.70	0.00439	609544.09
4202022.70	609559.09	4202022.70	0.00466	609574.09
4202022.70	609589.09	4202022.70	0.00477	609604.09
4202022.70	609619.09	4202022.70	0.00472	609634.09
4202022.70	609649.09	4202022.70	0.00456	609664.09
4202037.70	609019.09	4202037.70	0.00358	609034.09
4202037.70	609049.09	4202037.70	0.00371	609064.09
4202037.70	609079.09	4202037.70	0.00381	609094.09
4202037.70	609109.09	4202037.70	0.00387	609124.09
4202037.70	609139.09	4202037.70	0.00387	609154.09
4202037.70	609169.09	4202037.70	0.00379	609184.09
4202037.70	609199.09	4202037.70	0.00365	609214.09
4202037.70	609229.09	4202037.70	0.00345	609244.09
4202037.70	609259.09	4202037.70	0.00326	609274.09
4202037.70	609289.09	4202037.70	0.00313	609304.09
4202037.70	609319.09	4202037.70	0.00308	609334.09

609349.09	4202037.70	0.00308	609394.09
4202037.70	0.00319		
609409.09	4202037.70	0.00329	609424.09
4202037.70	0.00343		
609439.09	4202037.70	0.00361	609454.09
4202037.70	0.00384		
609469.09	4202037.70	0.00410	609484.09
4202037.70	0.00438		
609499.09	4202037.70	0.00465	609514.09
4202037.70	0.00488		
609529.09	4202037.70	0.00507	609544.09
4202037.70	0.00521		
609559.09	4202037.70	0.00530	609574.09
4202037.70	0.00534		
609589.09	4202037.70	0.00532	609604.09
4202037.70	0.00527		
609619.09	4202037.70	0.00518	609634.09
4202037.70	0.00506		
609649.09	4202037.70	0.00492	609664.09
4202037.70	0.00477		
609679.09	4202037.70	0.00460	609019.09
4202052.70	0.00386		
609034.09	4202052.70	0.00396	609049.09
4202052.70	0.00405		
609064.09	4202052.70	0.00415	609079.09
4202052.70	0.00423		
609094.09	4202052.70	0.00430	609109.09
4202052.70	0.00434		
609124.09	4202052.70	0.00437	609139.09
4202052.70	0.00438		
609154.09	4202052.70	0.00438	609169.09
4202052.70	0.00435		
609184.09	4202052.70	0.00429	609199.09
4202052.70	0.00420		

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 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\*      10/22/21  
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\*\*\* MODELOPTs:      RegDEFAULT      CONC      ELEV      URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION      VALUES AVERAGED OVER      5  
 YEARS FOR SOURCE GROUP: ALL      \*\*\*  
                                  INCLUDING SOURCE(S):      STCK1      , VOL2  
 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
609214.09	4202052.70	4202052.70	0.00410	609229.09
4202052.70	0.00398	4202052.70	0.00386	609259.09
609244.09	4202052.70	4202052.70	0.00365	609289.09
4202052.70	0.00375	4202052.70	0.00352	609319.09
609274.09	4202052.70	4202052.70	0.00348	609349.09
4202052.70	0.00357	4202052.70	0.00348	609349.09
609304.09	4202052.70	4202052.70	0.00351	609394.09
4202052.70	0.00349	4202052.70	0.00351	609394.09
609334.09	4202052.70	4202052.70	0.00378	609424.09
4202052.70	0.00349	4202052.70	0.00378	609424.09
609364.09	4202052.70	4202052.70	0.00424	609454.09
4202052.70	0.00364	4202052.70	0.00424	609454.09
609409.09	4202052.70	4202052.70	0.00484	609484.09
4202052.70	0.00398	4202052.70	0.00484	609484.09
609439.09	4202052.70	4202052.70	0.00546	609514.09
4202052.70	0.00453	4202052.70	0.00546	609514.09
609469.09	4202052.70	4202052.70	0.00588	609544.09
4202052.70	0.00517	4202052.70	0.00588	609544.09
609499.09	4202052.70	4202052.70	0.00602	609574.09
4202052.70	0.00570	4202052.70	0.00602	609574.09
609529.09	4202052.70	4202052.70	0.00593	609604.09
4202052.70	0.00598	4202052.70	0.00593	609604.09
609559.09	4202052.70	4202052.70	0.00565	609634.09
4202052.70	0.00600	4202052.70	0.00565	609634.09
609589.09	4202052.70	4202052.70	0.00528	609664.09
4202052.70	0.00581	4202052.70	0.00528	609664.09
609619.09	4202052.70	4202052.70	0.00487	609694.09
4202052.70	0.00548	4202052.70	0.00487	609694.09
609649.09	4202052.70	4202052.70	0.00396	609019.09
4202052.70	0.00508	4202052.70	0.00396	609019.09
609679.09	4202052.70	4202052.70	0.00427	609049.09
4202052.70	0.00466	4202052.70	0.00427	609049.09
609004.09	4202067.70	4202067.70	0.00455	609079.09
4202067.70	0.00412	4202067.70	0.00455	609079.09
609034.09	4202067.70	4202067.70	0.00479	609109.09
4202067.70	0.00441	4202067.70	0.00479	609109.09
609064.09	4202067.70	4202067.70	0.00494	609139.09
4202067.70	0.00468	4202067.70	0.00494	609139.09
609094.09	4202067.70	4202067.70	0.00501	609169.09
4202067.70	0.00487	4202067.70	0.00501	609169.09
609124.09	4202067.70	4202067.70		
4202067.70	0.00498	4202067.70		
609154.09	4202067.70	4202067.70		

4202067.70	0.00500			
	609184.09	4202067.70	0.00496	609199.09
4202067.70	0.00488			
	609214.09	4202067.70	0.00477	609229.09
4202067.70	0.00464			
	609244.09	4202067.70	0.00450	609259.09
4202067.70	0.00436			
	609274.09	4202067.70	0.00423	609289.09
4202067.70	0.00412			
	609304.09	4202067.70	0.00404	609319.09
4202067.70	0.00400			
	609334.09	4202067.70	0.00399	609349.09
4202067.70	0.00399			
	609364.09	4202067.70	0.00402	609409.09
4202067.70	0.00441			
	609424.09	4202067.70	0.00468	609439.09
4202067.70	0.00503			
	609454.09	4202067.70	0.00542	609469.09
4202067.70	0.00581			
	609484.09	4202067.70	0.00617	609499.09
4202067.70	0.00648			
	609514.09	4202067.70	0.00670	609529.09
4202067.70	0.00683			
	609544.09	4202067.70	0.00687	609559.09
4202067.70	0.00683			
	609574.09	4202067.70	0.00672	609589.09
4202067.70	0.00656			
	609604.09	4202067.70	0.00636	609619.09
4202067.70	0.00614			
	609634.09	4202067.70	0.00589	609649.09
4202067.70	0.00563			
	609664.09	4202067.70	0.00538	609679.09
4202067.70	0.00512			
	609694.09	4202067.70	0.00487	609709.09
4202067.70	0.00464			
	609004.09	4202082.70	0.00415	609019.09
4202082.70	0.00435			

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

\*\*\* THE ANNUAL AVERAGE CONCENTRATION      VALUES AVERAGED OVER      5  
 YEARS FOR SOURCE GROUP: ALL      \*\*\*  
                                  INCLUDING SOURCE(S):      STCK1      , VOL2

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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

**			
X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609034.09	4202082.70	0.00455	609049.09
4202082.70	0.00476		
609064.09	4202082.70	0.00495	609079.09
4202082.70	0.00514		
609094.09	4202082.70	0.00530	609109.09
4202082.70	0.00545		
609124.09	4202082.70	0.00557	609139.09
4202082.70	0.00568		
609154.09	4202082.70	0.00574	609169.09
4202082.70	0.00577		
609184.09	4202082.70	0.00576	609199.09
4202082.70	0.00571		
609214.09	4202082.70	0.00561	609229.09
4202082.70	0.00548		
609244.09	4202082.70	0.00531	609259.09
4202082.70	0.00513		
609274.09	4202082.70	0.00496	609289.09
4202082.70	0.00481		
609304.09	4202082.70	0.00470	609319.09
4202082.70	0.00464		
609334.09	4202082.70	0.00462	609349.09
4202082.70	0.00462		
609364.09	4202082.70	0.00467	609409.09
4202082.70	0.00522		
609424.09	4202082.70	0.00561	609439.09
4202082.70	0.00608		
609454.09	4202082.70	0.00658	609469.09
4202082.70	0.00705		
609484.09	4202082.70	0.00744	609499.09
4202082.70	0.00772		
609514.09	4202082.70	0.00788	609529.09
4202082.70	0.00792		
609544.09	4202082.70	0.00786	609559.09
4202082.70	0.00771		
609574.09	4202082.70	0.00749	609589.09
4202082.70	0.00722		
609604.09	4202082.70	0.00692	609619.09
4202082.70	0.00661		
609634.09	4202082.70	0.00629	609649.09
4202082.70	0.00597		



609664.09	4202082.70	0.00566	609679.09
4202082.70	0.00536		
609694.09	4202082.70	0.00507	609709.09
4202082.70	0.00480		
609004.09	4202097.70	0.00431	609019.09
4202097.70	0.00456		
609034.09	4202097.70	0.00481	609049.09
4202097.70	0.00507		
609064.09	4202097.70	0.00534	609079.09
4202097.70	0.00559		
609094.09	4202097.70	0.00584	609109.09
4202097.70	0.00607		
609124.09	4202097.70	0.00628	609139.09
4202097.70	0.00645		
609154.09	4202097.70	0.00659	609169.09
4202097.70	0.00668		
609184.09	4202097.70	0.00673	609199.09
4202097.70	0.00673		
609214.09	4202097.70	0.00666	609229.09
4202097.70	0.00653		
609244.09	4202097.70	0.00635	609259.09
4202097.70	0.00614		
609274.09	4202097.70	0.00591	609289.09
4202097.70	0.00571		
609304.09	4202097.70	0.00555	609319.09
4202097.70	0.00546		
609334.09	4202097.70	0.00542	609349.09
4202097.70	0.00543		
609364.09	4202097.70	0.00549	609409.09
4202097.70	0.00631		
609424.09	4202097.70	0.00686	609439.09
4202097.70	0.00749		
609454.09	4202097.70	0.00810	609469.09
4202097.70	0.00862		
609484.09	4202097.70	0.00899	609499.09
4202097.70	0.00920		
609514.09	4202097.70	0.00924	609529.09
4202097.70	0.00913		
609544.09	4202097.70	0.00892	609559.09
4202097.70	0.00862		

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 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\*    10/22/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*    \*\*\*  
                                  \*\*\*    11:10:05

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

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

INCLUDING SOURCE(S): STCK1 , VOL2

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609574.09	4202097.70	0.00826	609589.09
4202097.70	0.00787		
609604.09	4202097.70	0.00746	609619.09
4202097.70	0.00706		
609634.09	4202097.70	0.00666	609649.09
4202097.70	0.00628		
609664.09	4202097.70	0.00592	609679.09
4202097.70	0.00558		
609694.09	4202097.70	0.00525	609709.09
4202097.70	0.00495		
609724.09	4202097.70	0.00468	608989.09
4202112.70	0.00421		
609004.09	4202112.70	0.00446	609019.09
4202112.70	0.00474		
609034.09	4202112.70	0.00503	609049.09
4202112.70	0.00535		
609064.09	4202112.70	0.00568	609079.09
4202112.70	0.00601		
609094.09	4202112.70	0.00635	609109.09
4202112.70	0.00669		
609124.09	4202112.70	0.00701	609139.09
4202112.70	0.00729		
609154.09	4202112.70	0.00754	609169.09
4202112.70	0.00774		
609184.09	4202112.70	0.00788	609199.09
4202112.70	0.00796		
609214.09	4202112.70	0.00796	609229.09
4202112.70	0.00788		
609244.09	4202112.70	0.00771	609259.09
4202112.70	0.00748		
609274.09	4202112.70	0.00720	609289.09
4202112.70	0.00692		
609304.09	4202112.70	0.00669	609319.09
4202112.70	0.00654		
609334.09	4202112.70	0.00647	609349.09
4202112.70	0.00648		
609364.09	4202112.70	0.00656	609379.09

4202112.70	0.00678			
	609409.09	4202112.70	0.00781	609424.09
4202112.70	0.00859			
	609439.09	4202112.70	0.00940	609454.09
4202112.70	0.01011			
	609469.09	4202112.70	0.01062	609484.09
4202112.70	0.01089			
	609499.09	4202112.70	0.01093	609514.09
4202112.70	0.01077			
	609529.09	4202112.70	0.01045	609544.09
4202112.70	0.01003			
	609559.09	4202112.70	0.00955	609574.09
4202112.70	0.00903			
	609589.09	4202112.70	0.00850	609604.09
4202112.70	0.00798			
	609619.09	4202112.70	0.00748	609634.09
4202112.70	0.00701			
	609649.09	4202112.70	0.00657	609664.09
4202112.70	0.00615			
	609679.09	4202112.70	0.00577	609694.09
4202112.70	0.00542			
	609709.09	4202112.70	0.00509	609724.09
4202112.70	0.00479			
	608989.09	4202127.70	0.00433	609004.09
4202127.70	0.00460			
	609019.09	4202127.70	0.00490	609034.09
4202127.70	0.00523			
	609049.09	4202127.70	0.00558	609064.09
4202127.70	0.00596			
	609079.09	4202127.70	0.00637	609094.09
4202127.70	0.00680			
	609109.09	4202127.70	0.00725	609124.09
4202127.70	0.00771			
	609139.09	4202127.70	0.00815	609154.09
4202127.70	0.00856			
	609169.09	4202127.70	0.00893	609184.09
4202127.70	0.00923			
	609199.09	4202127.70	0.00945	609214.09
4202127.70	0.00958			
	609229.09	4202127.70	0.00960	609244.09
4202127.70	0.00950			
	609259.09	4202127.70	0.00928	609274.09
4202127.70	0.00895			

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 \*\*\* AERMET - VERSION 14134 \*\*\*      \*\*\*  
                                  \*\*\*      11:10:05

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5  
 YEARS FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): STCK1 , VOL2

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609289.09	4202127.70	0.00858	609304.09
4202127.70	0.00824		
609319.09	4202127.70	0.00800	609334.09
4202127.70	0.00788		
609349.09	4202127.70	0.00788	609364.09
4202127.70	0.00801		
609379.09	4202127.70	0.00836	609409.09
4202127.70	0.00996		
609424.09	4202127.70	0.01104	609439.09
4202127.70	0.01204		
609454.09	4202127.70	0.01276	609469.09
4202127.70	0.01313		
609484.09	4202127.70	0.01316	609499.09
4202127.70	0.01290		
609514.09	4202127.70	0.01244	609529.09
4202127.70	0.01184		
609544.09	4202127.70	0.01116	609559.09
4202127.70	0.01046		
609574.09	4202127.70	0.00976	609589.09
4202127.70	0.00909		
609604.09	4202127.70	0.00846	609619.09
4202127.70	0.00787		
609634.09	4202127.70	0.00732	609649.09
4202127.70	0.00682		
609664.09	4202127.70	0.00636	609679.09
4202127.70	0.00594		
609694.09	4202127.70	0.00555	609709.09
4202127.70	0.00520		
609724.09	4202127.70	0.00488	608974.09
4202142.70	0.00419		
608989.09	4202142.70	0.00445	609004.09
4202142.70	0.00474		
609019.09	4202142.70	0.00506	609034.09
4202142.70	0.00540		

609049.09	4202142.70	0.00579	609064.09
4202142.70	0.00621		
609079.09	4202142.70	0.00668	609094.09
4202142.70	0.00719		
609109.09	4202142.70	0.00775	609124.09
4202142.70	0.00833		
609139.09	4202142.70	0.00895	609154.09
4202142.70	0.00958		
609169.09	4202142.70	0.01018	609184.09
4202142.70	0.01073		
609199.09	4202142.70	0.01120	609214.09
4202142.70	0.01157		
609229.09	4202142.70	0.01179	609244.09
4202142.70	0.01185		
609259.09	4202142.70	0.01173	609274.09
4202142.70	0.01141		
609289.09	4202142.70	0.01095	609304.09
4202142.70	0.01045		
609319.09	4202142.70	0.01005	609334.09
4202142.70	0.00984		
609349.09	4202142.70	0.00983	609364.09
4202142.70	0.01004		
609379.09	4202142.70	0.01062	609409.09
4202142.70	0.01314		
609424.09	4202142.70	0.01458	609439.09
4202142.70	0.01566		
609454.09	4202142.70	0.01620	609469.09
4202142.70	0.01620		
609484.09	4202142.70	0.01578	609499.09
4202142.70	0.01507		
609514.09	4202142.70	0.01419	609529.09
4202142.70	0.01323		
609544.09	4202142.70	0.01226	609559.09
4202142.70	0.01132		
609574.09	4202142.70	0.01044	609589.09
4202142.70	0.00963		
609604.09	4202142.70	0.00888	609619.09
4202142.70	0.00821		
609634.09	4202142.70	0.00759	609649.09
4202142.70	0.00703		
609664.09	4202142.70	0.00653	609679.09
4202142.70	0.00607		
609694.09	4202142.70	0.00566	609709.09
4202142.70	0.00528		
609724.09	4202142.70	0.00494	608974.09
4202157.70	0.00427		

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 \*\*\* AERMET - VERSION 14134 \*\*\*      \*\*\*

10/22/21

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

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5  
 YEARS FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): STCK1 , VOL2

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
608989.09	4202157.70	0.00455	609004.09
4202157.70	0.00486		
609019.09	4202157.70	0.00520	609034.09
4202157.70	0.00557		
609049.09	4202157.70	0.00598	609064.09
4202157.70	0.00645		
609079.09	4202157.70	0.00696	609094.09
4202157.70	0.00753		
609109.09	4202157.70	0.00817	609124.09
4202157.70	0.00888		
609139.09	4202157.70	0.00966	609154.09
4202157.70	0.01050		
609169.09	4202157.70	0.01138	609184.09
4202157.70	0.01227		
609199.09	4202157.70	0.01312	609214.09
4202157.70	0.01389		
609229.09	4202157.70	0.01451	609244.09
4202157.70	0.01492		
609259.09	4202157.70	0.01506	609274.09
4202157.70	0.01490		
609289.09	4202157.70	0.01442	609304.09
4202157.70	0.01375		
609319.09	4202157.70	0.01310	609334.09
4202157.70	0.01270		
609349.09	4202157.70	0.01263	609364.09
4202157.70	0.01300		
609379.09	4202157.70	0.01406	609409.09
4202157.70	0.01805		
609424.09	4202157.70	0.01974	609439.09
4202157.70	0.02056		
609454.09	4202157.70	0.02051	609469.09

4202157.70	0.01980			
609484.09	4202157.70	0.01867		609499.09
4202157.70	0.01732			
609514.09	4202157.70	0.01592		609529.09
4202157.70	0.01456			
609544.09	4202157.70	0.01328		609559.09
4202157.70	0.01211			
609574.09	4202157.70	0.01105		609589.09
4202157.70	0.01009			
609604.09	4202157.70	0.00924		609619.09
4202157.70	0.00848			
609634.09	4202157.70	0.00780		609649.09
4202157.70	0.00720			
609664.09	4202157.70	0.00666		609679.09
4202157.70	0.00617			
609694.09	4202157.70	0.00573		609709.09
4202157.70	0.00534			
609724.09	4202157.70	0.00498		608959.09
4202172.70	0.00403			
608974.09	4202172.70	0.00431		608989.09
4202172.70	0.00460			
609004.09	4202172.70	0.00493		609019.09
4202172.70	0.00529			
609034.09	4202172.70	0.00569		609049.09
4202172.70	0.00614			
609064.09	4202172.70	0.00664		609079.09
4202172.70	0.00720			
609094.09	4202172.70	0.00783		609109.09
4202172.70	0.00855			
609124.09	4202172.70	0.00935		609139.09
4202172.70	0.01027			
609154.09	4202172.70	0.01130		609169.09
4202172.70	0.01245			
609184.09	4202172.70	0.01370		609199.09
4202172.70	0.01503			
609214.09	4202172.70	0.01639		609229.09
4202172.70	0.01768			
609244.09	4202172.70	0.01878		609259.09
4202172.70	0.01956			
609274.09	4202172.70	0.01989		609289.09
4202172.70	0.01967			
609304.09	4202172.70	0.01892		609319.09
4202172.70	0.01790			
609334.09	4202172.70	0.01712		609349.09
4202172.70	0.01693			
609364.09	4202172.70	0.01761		609379.09
4202172.70	0.01968			
609409.09	4202172.70	0.02570		609424.09
4202172.70	0.02712			

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

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5  
 YEARS FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): STCK1 , VOL2

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609439.09	4202172.70	0.02695	609454.09
4202172.70	0.02566		
609469.09	4202172.70	0.02376	609484.09
4202172.70	0.02163		
609499.09	4202172.70	0.01952	609514.09
4202172.70	0.01755		
609529.09	4202172.70	0.01576	609544.09
4202172.70	0.01417		
609559.09	4202172.70	0.01277	609574.09
4202172.70	0.01154		
609589.09	4202172.70	0.01046	609604.09
4202172.70	0.00952		
609619.09	4202172.70	0.00869	609634.09
4202172.70	0.00796		
609649.09	4202172.70	0.00731	609664.09
4202172.70	0.00674		
609679.09	4202172.70	0.00623	609694.09
4202172.70	0.00577		
609709.09	4202172.70	0.00537	609724.09
4202172.70	0.00500		
608959.09	4202187.70	0.00397	608974.09
4202187.70	0.00425		
608989.09	4202187.70	0.00457	609004.09
4202187.70	0.00491		
609019.09	4202187.70	0.00530	609034.09
4202187.70	0.00572		
609049.09	4202187.70	0.00620	609064.09
4202187.70	0.00674		



4202187.70	609079.09	4202187.70	0.00735	609094.09
		0.00804		
4202187.70	609109.09	4202187.70	0.00882	609124.09
		0.00973		
4202187.70	609139.09	4202187.70	0.01076	609154.09
		0.01197		
4202187.70	609169.09	4202187.70	0.01335	609184.09
		0.01493		
4202187.70	609199.09	4202187.70	0.01674	609214.09
		0.01877		
4202187.70	609229.09	4202187.70	0.02097	609244.09
		0.02320		
4202187.70	609259.09	4202187.70	0.02527	609274.09
		0.02688		
4202187.70	609409.09	4202187.70	0.03761	609424.09
		0.03722		
4202187.70	609439.09	4202187.70	0.03474	609454.09
		0.03132		
4202187.70	609469.09	4202187.70	0.02776	609484.09
		0.02445		
4202187.70	609499.09	4202187.70	0.02150	609514.09
		0.01894		
4202187.70	609529.09	4202187.70	0.01675	609544.09
		0.01487		
4202187.70	609559.09	4202187.70	0.01327	609574.09
		0.01190		
4202187.70	609589.09	4202187.70	0.01072	609604.09
		0.00970		
4202187.70	609619.09	4202187.70	0.00881	609634.09
		0.00804		
4202187.70	609649.09	4202187.70	0.00736	609664.09
		0.00677		
4202187.70	609679.09	4202187.70	0.00624	609694.09
		0.00577		
4202187.70	609709.09	4202187.70	0.00536	609724.09
		0.00498		
4202202.70	608959.09	4202202.70	0.00382	608974.09
		0.00410		
4202202.70	608989.09	4202202.70	0.00442	609004.09
		0.00477		
4202202.70	609019.09	4202202.70	0.00516	609034.09
		0.00560		
4202202.70	609049.09	4202202.70	0.00609	609064.09
		0.00665		
4202202.70	609079.09	4202202.70	0.00730	609094.09
		0.00803		
4202202.70	609109.09	4202202.70	0.00888	609124.09
		0.00987		
4202202.70	609139.09	4202202.70	0.01102	609154.09
		0.01238		

609169.09 4202202.70 0.01397 609184.09  
 4202202.70 0.01585  
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 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/22/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5  
 YEARS FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): STCK1 , VOL2

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609199.09	4202202.70	0.01810	609214.09
4202202.70	0.02077		
609229.09	4202202.70	0.02393	609244.09
4202202.70	0.02759		
609259.09	4202202.70	0.03164	609274.09
4202202.70	0.03580		
609409.09	4202202.70	0.05523	609424.09
4202202.70	0.04982		
609439.09	4202202.70	0.04317	609454.09
4202202.70	0.03685		
609469.09	4202202.70	0.03138	609484.09
4202202.70	0.02683		
609499.09	4202202.70	0.02308	609514.09
4202202.70	0.01999		
609529.09	4202202.70	0.01745	609544.09
4202202.70	0.01534		
609559.09	4202202.70	0.01358	609574.09
4202202.70	0.01210		
609589.09	4202202.70	0.01084	609604.09
4202202.70	0.00977		
609619.09	4202202.70	0.00884	609634.09
4202202.70	0.00804		
609649.09	4202202.70	0.00735	609664.09
4202202.70	0.00674		
609679.09	4202202.70	0.00621	609694.09

4202202.70	0.00574		
609709.09	4202202.70	0.00532	609724.09
4202202.70	0.00494		
608959.09	4202217.70	0.00358	608974.09
4202217.70	0.00385		
608989.09	4202217.70	0.00416	609004.09
4202217.70	0.00449		
609019.09	4202217.70	0.00487	609034.09
4202217.70	0.00530		
609049.09	4202217.70	0.00579	609064.09
4202217.70	0.00635		
609079.09	4202217.70	0.00699	609094.09
4202217.70	0.00773		
609109.09	4202217.70	0.00860	609124.09
4202217.70	0.00961		
609139.09	4202217.70	0.01082	609154.09
4202217.70	0.01227		
609169.09	4202217.70	0.01400	609184.09
4202217.70	0.01611		
609199.09	4202217.70	0.01871	609214.09
4202217.70	0.02193		
609229.09	4202217.70	0.02595	609244.09
4202217.70	0.03099		
609259.09	4202217.70	0.03730	609274.09
4202217.70	0.04505		
609484.09	4202217.70	0.02845	609499.09
4202217.70	0.02406		
609514.09	4202217.70	0.02058	609529.09
4202217.70	0.01779		
609544.09	4202217.70	0.01552	609559.09
4202217.70	0.01366		
609574.09	4202217.70	0.01211	609589.09
4202217.70	0.01081		
609604.09	4202217.70	0.00971	609619.09
4202217.70	0.00877		
609634.09	4202217.70	0.00796	609649.09
4202217.70	0.00727		
609664.09	4202217.70	0.00666	609679.09
4202217.70	0.00612		
609694.09	4202217.70	0.00565	609709.09
4202217.70	0.00524		
609724.09	4202217.70	0.00487	608959.09
4202232.70	0.00329		
608974.09	4202232.70	0.00354	608989.09
4202232.70	0.00381		
609004.09	4202232.70	0.00412	609019.09
4202232.70	0.00447		
609034.09	4202232.70	0.00486	609049.09
4202232.70	0.00531		
609064.09	4202232.70	0.00583	609079.09

4202232.70 0.00643  
 609094.09 4202232.70 0.00712 609109.09  
 4202232.70 0.00794  
 609124.09 4202232.70 0.00890 609139.09  
 4202232.70 0.01006

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 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/22/21  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION VALUES AVERAGED OVER 5  
 YEARS FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): STCK1 , VOL2

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609154.09	4202232.70	0.01147	609169.09
4202232.70	0.01318		
609184.09	4202232.70	0.01530	609199.09
4202232.70	0.01799		
609214.09	4202232.70	0.02142	609229.09
4202232.70	0.02589		
609244.09	4202232.70	0.03182	609259.09
4202232.70	0.03982		
609274.09	4202232.70	0.05081	609424.09
4202232.70	0.07371		
609439.09	4202232.70	0.05610	609454.09
4202232.70	0.04397		
609469.09	4202232.70	0.03534	609484.09
4202232.70	0.02903		
609499.09	4202232.70	0.02429	609514.09
4202232.70	0.02061		
609529.09	4202232.70	0.01771	609544.09
4202232.70	0.01538		
609559.09	4202232.70	0.01349	609574.09
4202232.70	0.01193		
609589.09	4202232.70	0.01063	609604.09
4202232.70	0.00954		

609619.09	4202232.70	0.00860	609634.09
4202232.70	0.00781		
609649.09	4202232.70	0.00712	609664.09
4202232.70	0.00652		
609679.09	4202232.70	0.00600	609694.09
4202232.70	0.00553		
609709.09	4202232.70	0.00513	609724.09
4202232.70	0.00476		
608959.09	4202247.70	0.00298	608974.09
4202247.70	0.00319		
608989.09	4202247.70	0.00344	609004.09
4202247.70	0.00371		
609019.09	4202247.70	0.00401	609034.09
4202247.70	0.00435		
609049.09	4202247.70	0.00474	609064.09
4202247.70	0.00519		
609079.09	4202247.70	0.00571	609094.09
4202247.70	0.00632		
609109.09	4202247.70	0.00702	609124.09
4202247.70	0.00787		
609139.09	4202247.70	0.00888	609154.09
4202247.70	0.01011		
609169.09	4202247.70	0.01162	609184.09
4202247.70	0.01350		
609199.09	4202247.70	0.01588	609214.09
4202247.70	0.01899		
609229.09	4202247.70	0.02312	609244.09
4202247.70	0.02878		
609259.09	4202247.70	0.03676	609274.09
4202247.70	0.04842		
609424.09	4202247.70	0.07724	609439.09
4202247.70	0.05706		
609454.09	4202247.70	0.04391	609469.09
4202247.70	0.03490		
609484.09	4202247.70	0.02847	609499.09
4202247.70	0.02369		
609514.09	4202247.70	0.02004	609529.09
4202247.70	0.01719		
609544.09	4202247.70	0.01492	609559.09
4202247.70	0.01308		
609574.09	4202247.70	0.01157	609589.09
4202247.70	0.01031		
609604.09	4202247.70	0.00925	609619.09
4202247.70	0.00834		
609634.09	4202247.70	0.00757	609649.09
4202247.70	0.00691		
609664.09	4202247.70	0.00633	609679.09
4202247.70	0.00583		
609694.09	4202247.70	0.00538	609709.09
4202247.70	0.00498		

609724.09	4202247.70	0.00464	608959.09
4202262.70	0.00267		
608974.09	4202262.70	0.00285	608989.09
4202262.70	0.00306		
609004.09	4202262.70	0.00329	609019.09
4202262.70	0.00354		
609034.09	4202262.70	0.00383	609049.09
4202262.70	0.00416		

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

\*\*\* THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER    5  
 YEARS FOR SOURCE GROUP: ALL    \*\*\*  
                                  INCLUDING SOURCE(S):    STCK1    , VOL2

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
-----			
-----			
609064.09	4202262.70	0.00454	609079.09
4202262.70	0.00497		
609094.09	4202262.70	0.00546	609109.09
4202262.70	0.00605		
609124.09	4202262.70	0.00673	609139.09
4202262.70	0.00755		
609154.09	4202262.70	0.00854	609169.09
4202262.70	0.00975		
609184.09	4202262.70	0.01125	609199.09
4202262.70	0.01313		
609214.09	4202262.70	0.01558	609229.09
4202262.70	0.01882		
609244.09	4202262.70	0.02327	609259.09
4202262.70	0.02961		
609274.09	4202262.70	0.03908	609424.09
4202262.70	0.07285		
609439.09	4202262.70	0.05368	609454.09
4202262.70	0.04132		
609469.09	4202262.70	0.03289	609484.09

4202262.70	0.02686		
609499.09	4202262.70	0.02240	609514.09
4202262.70	0.01899		
609529.09	4202262.70	0.01632	609544.09
4202262.70	0.01419		
609559.09	4202262.70	0.01247	609574.09
4202262.70	0.01105		
609589.09	4202262.70	0.00986	609604.09
4202262.70	0.00886		
609619.09	4202262.70	0.00801	609634.09
4202262.70	0.00728		
609649.09	4202262.70	0.00665	609664.09
4202262.70	0.00610		
609679.09	4202262.70	0.00562	609694.09
4202262.70	0.00520		
609709.09	4202262.70	0.00482	609724.09
4202262.70	0.00449		
609424.09	4202277.70	0.06383	609439.09
4202277.70	0.04779		
609454.09	4202277.70	0.03722	609469.09
4202277.70	0.02990		
609484.09	4202277.70	0.02461	609499.09
4202277.70	0.02066		
609514.09	4202277.70	0.01761	609529.09
4202277.70	0.01521		
609544.09	4202277.70	0.01329	609559.09
4202277.70	0.01172		
609574.09	4202277.70	0.01042	609589.09
4202277.70	0.00933		
609604.09	4202277.70	0.00841	609619.09
4202277.70	0.00762		
609634.09	4202277.70	0.00694	609649.09
4202277.70	0.00635		
609664.09	4202277.70	0.00584	609679.09
4202277.70	0.00539		
609694.09	4202277.70	0.00499	609709.09
4202277.70	0.00463		
609724.09	4202277.70	0.00432	609409.09
4202322.70	0.04396		
609424.09	4202322.70	0.03708	609439.09
4202322.70	0.03100		
609454.09	4202322.70	0.02591	609469.09
4202322.70	0.02176		
609484.09	4202322.70	0.01843	609499.09
4202322.70	0.01577		
609514.09	4202322.70	0.01366	609529.09
4202322.70	0.01195		
609544.09	4202322.70	0.01057	609559.09
4202322.70	0.00943		
609574.09	4202322.70	0.00847	609589.09

4202322.70	0.00767			
609604.09	4202322.70	0.00698		609619.09
4202322.70	0.00638			
609634.09	4202322.70	0.00586		609649.09
4202322.70	0.00541			
609664.09	4202322.70	0.00501		609679.09
4202322.70	0.00465			
609694.09	4202322.70	0.00433		609409.09
4202337.70	0.03411			
609424.09	4202337.70	0.03026		609439.09
4202337.70	0.02635			

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

\*\*\* THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER    5  
 YEARS FOR SOURCE GROUP: ALL    \*\*\*  
                                  INCLUDING SOURCE(S):    STCK1    , VOL2

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609454.09	4202337.70	0.02276	609469.09
4202337.70	0.01960		
609484.09	4202337.70	0.01690	609499.09
4202337.70	0.01463		
609514.09	4202337.70	0.01274	609529.09
4202337.70	0.01119		
609544.09	4202337.70	0.00991	609559.09
4202337.70	0.00885		
609574.09	4202337.70	0.00796	609589.09
4202337.70	0.00721		
609604.09	4202337.70	0.00657	609619.09
4202337.70	0.00602		
609634.09	4202337.70	0.00554	609649.09
4202337.70	0.00511		
609664.09	4202337.70	0.00474	609679.09
4202337.70	0.00441		



609694.09	4202337.70	0.00412	609709.09
4202337.70	0.00385		
609724.09	4202337.70	0.00362	609409.09
4202352.70	0.02666		
609424.09	4202352.70	0.02461	609439.09
4202352.70	0.02221		
609454.09	4202352.70	0.01978	609469.09
4202352.70	0.01749		
609484.09	4202352.70	0.01541	609499.09
4202352.70	0.01355		
609514.09	4202352.70	0.01194	609529.09
4202352.70	0.01055		
609544.09	4202352.70	0.00938	609559.09
4202352.70	0.00838		
609574.09	4202352.70	0.00754	609589.09
4202352.70	0.00683		
609604.09	4202352.70	0.00623	609619.09
4202352.70	0.00571		
609634.09	4202352.70	0.00525	609649.09
4202352.70	0.00485		
609664.09	4202352.70	0.00450	609679.09
4202352.70	0.00420		
609694.09	4202352.70	0.00392	609709.09
4202352.70	0.00367		
609724.09	4202352.70	0.00346	609409.09
4202367.70	0.02117		
609424.09	4202367.70	0.02011	609439.09
4202367.70	0.01867		
609454.09	4202367.70	0.01707	609469.09
4202367.70	0.01545		
609484.09	4202367.70	0.01390	609499.09
4202367.70	0.01246		
609514.09	4202367.70	0.01114	609529.09
4202367.70	0.00996		
609544.09	4202367.70	0.00891	609559.09
4202367.70	0.00800		
609574.09	4202367.70	0.00721	609589.09
4202367.70	0.00653		
609604.09	4202367.70	0.00595	609619.09
4202367.70	0.00545		
609634.09	4202367.70	0.00501	609649.09
4202367.70	0.00463		
609664.09	4202367.70	0.00430	609679.09
4202367.70	0.00401		
609694.09	4202367.70	0.00375	609709.09
4202367.70	0.00351		
609724.09	4202367.70	0.00331	609394.09
4202382.70	0.01713		
609409.09	4202382.70	0.01711	609424.09
4202382.70	0.01658		

609439.09	4202382.70	0.01573	609454.09
4202382.70	0.01469		
609469.09	4202382.70	0.01357	609484.09
4202382.70	0.01244		
609499.09	4202382.70	0.01135	609514.09
4202382.70	0.01031		
609529.09	4202382.70	0.00934	609544.09
4202382.70	0.00845		
609559.09	4202382.70	0.00764	609574.09
4202382.70	0.00691		
609589.09	4202382.70	0.00627	609604.09
4202382.70	0.00572		
609619.09	4202382.70	0.00524	609634.09
4202382.70	0.00482		

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

\*\*\* THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER    5  
 YEARS FOR SOURCE GROUP: ALL    \*\*\*  
                                  INCLUDING SOURCE(S):    STCK1    , VOL2  
 ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609649.09	4202382.70	0.00445	609664.09
4202382.70	0.00413		
609679.09	4202382.70	0.00385	609694.09
4202382.70	0.00360		
609709.09	4202382.70	0.00338	609724.09
4202382.70	0.00318		
609394.09	4202397.70	0.01393	609409.09
4202397.70	0.01407		
609424.09	4202397.70	0.01384	609439.09
4202397.70	0.01334		
609454.09	4202397.70	0.01267	609469.09
4202397.70	0.01190		
609484.09	4202397.70	0.01108	609499.09

4202397.70	0.01026		
609514.09	4202397.70	0.00946	609529.09
4202397.70	0.00869		
609544.09	4202397.70	0.00795	609559.09
4202397.70	0.00726		
609574.09	4202397.70	0.00662	609589.09
4202397.70	0.00604		
609604.09	4202397.70	0.00552	609619.09
4202397.70	0.00507		
609634.09	4202397.70	0.00467	609649.09
4202397.70	0.00431		
609664.09	4202397.70	0.00400	609679.09
4202397.70	0.00372		
609694.09	4202397.70	0.00348	609709.09
4202397.70	0.00326		
609724.09	4202397.70	0.00307	609394.09
4202412.70	0.01154		
609409.09	4202412.70	0.01176	609424.09
4202412.70	0.01169		
609439.09	4202412.70	0.01140	609454.09
4202412.70	0.01097		
609469.09	4202412.70	0.01044	609484.09
4202412.70	0.00985		
609499.09	4202412.70	0.00924	609514.09
4202412.70	0.00862		
609529.09	4202412.70	0.00802	609544.09
4202412.70	0.00742		
609559.09	4202412.70	0.00684	609574.09
4202412.70	0.00630		
609589.09	4202412.70	0.00580	609604.09
4202412.70	0.00534		
609619.09	4202412.70	0.00492	609634.09
4202412.70	0.00454		
609649.09	4202412.70	0.00420	609664.09
4202412.70	0.00389		
609679.09	4202412.70	0.00362	609694.09
4202412.70	0.00338		
609709.09	4202412.70	0.00316	609724.09
4202412.70	0.00297		
609394.09	4202427.70	0.00972	609409.09
4202427.70	0.00996		
609424.09	4202427.70	0.00999	609439.09
4202427.70	0.00983		
609454.09	4202427.70	0.00955	609469.09
4202427.70	0.00919		
609484.09	4202427.70	0.00877	609499.09
4202427.70	0.00831		
609514.09	4202427.70	0.00784	609529.09
4202427.70	0.00736		
609544.09	4202427.70	0.00689	609559.09

4202427.70	0.00642			
609574.09	4202427.70	0.00597		609589.09
4202427.70	0.00554			
609604.09	4202427.70	0.00514		609619.09
4202427.70	0.00476			
609634.09	4202427.70	0.00441		609649.09
4202427.70	0.00409			
609664.09	4202427.70	0.00380		609679.09
4202427.70	0.00354			
609694.09	4202427.70	0.00330		609709.09
4202427.70	0.00309			
609724.09	4202427.70	0.00290		609439.09
4202472.70	0.00663			
609454.09	4202472.70	0.00657		609469.09
4202472.70	0.00645			
609484.09	4202472.70	0.00628		609499.09
4202472.70	0.00609			

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 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\*      10/22/21  
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\*\*\* MODELOPTs:      RegDEFAULT    CONC    ELEV    URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION      VALUES AVERAGED OVER      5  
 YEARS FOR SOURCE GROUP: ALL      \*\*\*  
                                  INCLUDING SOURCE(S):      STCK1      , VOL2

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609514.09	4202472.70	0.00588	609529.09
4202472.70	0.00565		
609544.09	4202472.70	0.00541	609559.09
4202472.70	0.00516		
609574.09	4202472.70	0.00492	609589.09
4202472.70	0.00468		
609604.09	4202472.70	0.00443	609619.09
4202472.70	0.00419		
609634.09	4202472.70	0.00396	609649.09
4202472.70	0.00373		

609664.09	4202472.70	0.00351	609679.09
4202472.70	0.00330		
609694.09	4202472.70	0.00310	609319.09
4202487.70	0.00405		
609334.09	4202487.70	0.00436	609349.09
4202487.70	0.00467		
609364.09	4202487.70	0.00498	609394.09
4202487.70	0.00553		
609409.09	4202487.70	0.00573	609424.09
4202487.70	0.00585		
609439.09	4202487.70	0.00590	609454.09
4202487.70	0.00587		
609469.09	4202487.70	0.00579	609484.09
4202487.70	0.00567		
609499.09	4202487.70	0.00552	609514.09
4202487.70	0.00536		
609529.09	4202487.70	0.00518	609544.09
4202487.70	0.00498		
609559.09	4202487.70	0.00478	609574.09
4202487.70	0.00458		
609589.09	4202487.70	0.00438	609604.09
4202487.70	0.00418		
609619.09	4202487.70	0.00398	609634.09
4202487.70	0.00378		
609649.09	4202487.70	0.00359	609664.09
4202487.70	0.00340		
609679.09	4202487.70	0.00321	609184.09
4202502.70	0.00206		
609199.09	4202502.70	0.00219	609214.09
4202502.70	0.00232		
609229.09	4202502.70	0.00245	609244.09
4202502.70	0.00259		
609259.09	4202502.70	0.00275	609274.09
4202502.70	0.00294		
609289.09	4202502.70	0.00316	609304.09
4202502.70	0.00340		
609319.09	4202502.70	0.00365	609334.09
4202502.70	0.00391		
609349.09	4202502.70	0.00417	609364.09
4202502.70	0.00444		
609394.09	4202502.70	0.00491	609409.09
4202502.70	0.00509		
609424.09	4202502.70	0.00521	609439.09
4202502.70	0.00527		
609454.09	4202502.70	0.00527	609469.09
4202502.70	0.00522		
609484.09	4202502.70	0.00513	609499.09
4202502.70	0.00502		
609514.09	4202502.70	0.00489	609529.09
4202502.70	0.00475		

609544.09	4202502.70	0.00460	609559.09
4202502.70	0.00443		
609574.09	4202502.70	0.00427	609589.09
4202502.70	0.00410		
609604.09	4202502.70	0.00393	609619.09
4202502.70	0.00376		
609634.09	4202502.70	0.00360	609649.09
4202502.70	0.00343		
609664.09	4202502.70	0.00327	609064.09
4202517.70	0.00124		
609079.09	4202517.70	0.00131	609094.09
4202517.70	0.00137		
609109.09	4202517.70	0.00145	609124.09
4202517.70	0.00153		
609139.09	4202517.70	0.00162	609154.09
4202517.70	0.00172		
609169.09	4202517.70	0.00183	609184.09
4202517.70	0.00193		
609199.09	4202517.70	0.00204	609214.09
4202517.70	0.00215		

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

\*\*\* THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER    5  
 YEARS FOR SOURCE GROUP: ALL    \*\*\*  
                                  INCLUDING SOURCE(S):    STCK1    , VOL2

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609229.09	4202517.70	0.00226	609244.09
4202517.70	0.00239		
609259.09	4202517.70	0.00253	609274.09
4202517.70	0.00270		
609289.09	4202517.70	0.00289	609304.09
4202517.70	0.00309		
609319.09	4202517.70	0.00331	609334.09

4202517.70	0.00353			
609349.09	4202517.70	0.00376	609364.09	
4202517.70	0.00398			
609409.09	4202517.70	0.00456	609424.09	
4202517.70	0.00468			
609439.09	4202517.70	0.00474	609454.09	
4202517.70	0.00476			
609469.09	4202517.70	0.00473	609484.09	
4202517.70	0.00467			
609499.09	4202517.70	0.00458	609514.09	
4202517.70	0.00448			
609529.09	4202517.70	0.00437	609544.09	
4202517.70	0.00425			
609559.09	4202517.70	0.00411	609574.09	
4202517.70	0.00397			
609589.09	4202517.70	0.00383	609604.09	
4202517.70	0.00369			
609619.09	4202517.70	0.00355	609634.09	
4202517.70	0.00341			
609649.09	4202517.70	0.00327	609079.09	
4202532.70	0.00125			
609094.09	4202532.70	0.00131	609109.09	
4202532.70	0.00138			
609124.09	4202532.70	0.00146	609139.09	
4202532.70	0.00154			
609154.09	4202532.70	0.00163	609169.09	
4202532.70	0.00173			
609184.09	4202532.70	0.00182	609199.09	
4202532.70	0.00190			
609214.09	4202532.70	0.00200	609229.09	
4202532.70	0.00210			
609244.09	4202532.70	0.00221	609259.09	
4202532.70	0.00234			
609274.09	4202532.70	0.00249	609289.09	
4202532.70	0.00265			
609304.09	4202532.70	0.00283	609319.09	
4202532.70	0.00301			
609334.09	4202532.70	0.00321	609349.09	
4202532.70	0.00341			
609364.09	4202532.70	0.00360	609409.09	
4202532.70	0.00410			
609424.09	4202532.70	0.00422	609439.09	
4202532.70	0.00429			
609454.09	4202532.70	0.00432	609469.09	
4202532.70	0.00431			
609484.09	4202532.70	0.00426	609499.09	
4202532.70	0.00420			
609514.09	4202532.70	0.00412	609529.09	
4202532.70	0.00403			
609544.09	4202532.70	0.00393	609559.09	

4202532.70	0.00382			
609574.09	4202532.70	0.00370		609589.09
4202532.70	0.00359			
609604.09	4202532.70	0.00347		609619.09
4202532.70	0.00334			
609094.09	4202547.70	0.00125		609109.09
4202547.70	0.00132			
609124.09	4202547.70	0.00139		609139.09
4202547.70	0.00147			
609154.09	4202547.70	0.00155		609169.09
4202547.70	0.00163			
609184.09	4202547.70	0.00171		609199.09
4202547.70	0.00178			
609214.09	4202547.70	0.00186		609229.09
4202547.70	0.00195			
609244.09	4202547.70	0.00206		609259.09
4202547.70	0.00217			
609274.09	4202547.70	0.00231		609289.09
4202547.70	0.00245			
609304.09	4202547.70	0.00260		609319.09
4202547.70	0.00276			
609334.09	4202547.70	0.00293		609349.09
4202547.70	0.00310			

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

\*\*\* THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER    5  
 YEARS FOR SOURCE GROUP: ALL    \*\*\*  
                                  INCLUDING SOURCE(S):    STCK1    , VOL2

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

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609364.09	4202547.70	0.00326	609409.09
4202547.70	0.00371		
609424.09	4202547.70	0.00382	609439.09
4202547.70	0.00390		



609454.09	4202547.70	0.00393	609469.09
4202547.70	0.00394		
609484.09	4202547.70	0.00391	609499.09
4202547.70	0.00386		
609514.09	4202547.70	0.00379	609529.09
4202547.70	0.00372		
609544.09	4202547.70	0.00364	609559.09
4202547.70	0.00355		
609574.09	4202547.70	0.00346	609589.09
4202547.70	0.00336		
609109.09	4202562.70	0.00126	609124.09
4202562.70	0.00133		
609139.09	4202562.70	0.00140	609154.09
4202562.70	0.00147		
609169.09	4202562.70	0.00154	609184.09
4202562.70	0.00161		
609199.09	4202562.70	0.00167	609214.09
4202562.70	0.00174		
609229.09	4202562.70	0.00183	609244.09
4202562.70	0.00192		
609259.09	4202562.70	0.00203	609274.09
4202562.70	0.00215		
609289.09	4202562.70	0.00227	609304.09
4202562.70	0.00241		
609319.09	4202562.70	0.00255	609334.09
4202562.70	0.00269		
609349.09	4202562.70	0.00283	609364.09
4202562.70	0.00298		
609409.09	4202562.70	0.00338	609424.09
4202562.70	0.00348		
609439.09	4202562.70	0.00355	609454.09
4202562.70	0.00360		
609469.09	4202562.70	0.00361	609484.09
4202562.70	0.00359		
609499.09	4202562.70	0.00356	609514.09
4202562.70	0.00351		
609529.09	4202562.70	0.00345	609544.09
4202562.70	0.00338		
609559.09	4202562.70	0.00331	609574.09
4202562.70	0.00323		
609124.09	4202577.70	0.00127	609139.09
4202577.70	0.00133		
609154.09	4202577.70	0.00139	609169.09
4202577.70	0.00145		
609184.09	4202577.70	0.00151	609199.09
4202577.70	0.00157		
609214.09	4202577.70	0.00164	609229.09
4202577.70	0.00171		
609244.09	4202577.70	0.00180	609259.09
4202577.70	0.00190		

609274.09	4202577.70	0.00200	609289.09
4202577.70	0.00212		
609304.09	4202577.70	0.00224	609319.09
4202577.70	0.00236		
609334.09	4202577.70	0.00248	609349.09
4202577.70	0.00260		
609364.09	4202577.70	0.00273	609409.09
4202577.70	0.00309		
609424.09	4202577.70	0.00318	609439.09
4202577.70	0.00326		
609454.09	4202577.70	0.00330	609469.09
4202577.70	0.00332		
609484.09	4202577.70	0.00331	609499.09
4202577.70	0.00329		
609514.09	4202577.70	0.00325	609529.09
4202577.70	0.00320		
609544.09	4202577.70	0.00314	609139.09
4202592.70	0.00127		
609154.09	4202592.70	0.00132	609169.09
4202592.70	0.00137		
609184.09	4202592.70	0.00142	609199.09
4202592.70	0.00148		
609214.09	4202592.70	0.00154	609229.09
4202592.70	0.00161		
609244.09	4202592.70	0.00169	609259.09
4202592.70	0.00178		

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

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

INCLUDING SOURCE(S):    STCK1    , VOL2

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

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

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609274.09	4202592.70	0.00187	609289.09

4202592.70	0.00198		
609304.09	4202592.70	0.00208	609319.09
4202592.70	0.00219		
609334.09	4202592.70	0.00230	609349.09
4202592.70	0.00241		
609364.09	4202592.70	0.00251	609409.09
4202592.70	0.00283		
609424.09	4202592.70	0.00292	609439.09
4202592.70	0.00299		
609454.09	4202592.70	0.00304	609469.09
4202592.70	0.00306		
609484.09	4202592.70	0.00306	609499.09
4202592.70	0.00305		
609514.09	4202592.70	0.00302	609529.09
4202592.70	0.00298		
609169.09	4202607.70	0.00130	609184.09
4202607.70	0.00134		
609199.09	4202607.70	0.00139	609214.09
4202607.70	0.00145		
609229.09	4202607.70	0.00152	609244.09
4202607.70	0.00159		
609259.09	4202607.70	0.00167	609274.09
4202607.70	0.00176		
609289.09	4202607.70	0.00185	609304.09
4202607.70	0.00194		
609319.09	4202607.70	0.00204	609334.09
4202607.70	0.00213		
609349.09	4202607.70	0.00223	609364.09
4202607.70	0.00233		
609409.09	4202607.70	0.00261	609424.09
4202607.70	0.00270		
609439.09	4202607.70	0.00276	609454.09
4202607.70	0.00281		
609469.09	4202607.70	0.00284	609484.09
4202607.70	0.00284		
609499.09	4202607.70	0.00283	609199.09
4202622.70	0.00132		
609214.09	4202622.70	0.00137	609229.09
4202622.70	0.00143		
609244.09	4202622.70	0.00150	609259.09
4202622.70	0.00158		
609274.09	4202622.70	0.00165	609289.09
4202622.70	0.00173		
609304.09	4202622.70	0.00182	609319.09
4202622.70	0.00190		
609334.09	4202622.70	0.00199	609349.09
4202622.70	0.00207		
609364.09	4202622.70	0.00216	609409.09
4202622.70	0.00242		
609424.09	4202622.70	0.00250	609439.09

4202622.70 0.00256  
 609454.09 4202622.70 0.00260 609469.09

4202622.70 0.00263  
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 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/22/21  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

VALUES FOR SOURCE GROUP: ALL \*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 \*\*\*  
 INCLUDING SOURCE(S): STCK1 , VOL2

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609304.09	4201857.70	0.10226	(12020204)	609319.09
4201857.70	0.10898	(12020204)		
609334.09	4201857.70	0.10515	(13022419)	609349.09
4201857.70	0.10354	(13122024)		
609364.09	4201857.70	0.11096	(09012323)	609379.09
4201857.70	0.11359	(09012323)		
609394.09	4201857.70	0.10353	(09012323)	609259.09
4201872.70	0.11979	(09012222)		
609304.09	4201872.70	0.10635	(12020204)	609319.09
4201872.70	0.11479	(12020204)		
609334.09	4201872.70	0.11119	(13022419)	609349.09
4201872.70	0.10916	(13122024)		
609364.09	4201872.70	0.11734	(09012323)	609379.09
4201872.70	0.11951	(09012323)		
609394.09	4201872.70	0.10770	(09012323)	609409.09
4201872.70	0.10824	(09012120)		
609424.09	4201872.70	0.11747	(09012120)	609439.09
4201872.70	0.11344	(09012120)		
609454.09	4201872.70	0.11117	(12012619)	609199.09
4201887.70	0.11346	(09123119)		
609214.09	4201887.70	0.11292	(10010301)	609229.09
4201887.70	0.11423	(10010301)		
609244.09	4201887.70	0.12150	(09012222)	609259.09
4201887.70	0.12746	(09012222)		

609274.09	4201887.70	0.12790	(10010720)	609304.09
4201887.70	0.11047	(12020204)		
609319.09	4201887.70	0.12099	(12020204)	609334.09
4201887.70	0.11777	(13022419)		
609349.09	4201887.70	0.11530	(13122024)	609364.09
4201887.70	0.12433	(09012323)		
609379.09	4201887.70	0.12590	(09012323)	609394.09
4201887.70	0.11300	(12123104)		
609409.09	4201887.70	0.11675	(09012120)	609424.09
4201887.70	0.12425	(09012120)		
609439.09	4201887.70	0.11699	(09012120)	609454.09
4201887.70	0.11867	(12012619)		
609469.09	4201887.70	0.11503	(12012619)	609484.09
4201887.70	0.11559	(09122003)		
609499.09	4201887.70	0.11575	(12120619)	609169.09
4201902.70	0.11117	(11010301)		
609184.09	4201902.70	0.11402	(13121217)	609199.09
4201902.70	0.11814	(09123119)		
609214.09	4201902.70	0.11918	(09123119)	609229.09
4201902.70	0.12190	(10010301)		
609244.09	4201902.70	0.12393	(09012222)	609259.09
4201902.70	0.13473	(09012222)		
609274.09	4201902.70	0.13405	(10010720)	609319.09
4201902.70	0.12762	(12020204)		
609334.09	4201902.70	0.12495	(13022419)	609349.09
4201902.70	0.12204	(13122024)		
609364.09	4201902.70	0.13199	(09012323)	609379.09
4201902.70	0.13281	(09012323)		
609394.09	4201902.70	0.11999	(12123104)	609409.09
4201902.70	0.12588	(09012120)		
609424.09	4201902.70	0.13106	(09012120)	609439.09
4201902.70	0.12087	(10021118)		
609454.09	4201902.70	0.12584	(12012619)	609469.09
4201902.70	0.12298	(09122003)		
609484.09	4201902.70	0.11999	(12120619)	609499.09
4201902.70	0.12163	(12120619)		
609514.09	4201902.70	0.11922	(10121002)	609529.09
4201902.70	0.11484	(10012503)		
609139.09	4201917.70	0.11650	(10011607)	609154.09
4201917.70	0.12008	(11010301)		
609169.09	4201917.70	0.12184	(11010301)	609184.09
4201917.70	0.11965	(12020820)		
609199.09	4201917.70	0.12070	(09123119)	609214.09
4201917.70	0.12752	(09123119)		
609229.09	4201917.70	0.12841	(10010301)	609244.09
4201917.70	0.12586	(10010301)		
609259.09	4201917.70	0.14131	(09012222)	609274.09
4201917.70	0.14085	(09010108)		
609289.09	4201917.70	0.14282	(10010720)	609319.09
4201917.70	0.13472	(12020204)		

609334.09	4201917.70	0.13300	(12020204)	609349.09
4201917.70	0.12945	(13122024)		
609364.09	4201917.70	0.14044	(09012323)	609379.09
4201917.70	0.14029	(09012323)		
609394.09	4201917.70	0.12754	(12123104)	609409.09
4201917.70	0.13581	(09012120)		

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 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/22/21  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): STCK1 , VOL2

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609424.09	4201917.70	0.13800	(09012120)	609439.09
4201917.70	0.12992	(12012619)		
609454.09	4201917.70	0.13247	(12012619)	609469.09
4201917.70	0.13081	(09122003)		
609484.09	4201917.70	0.12958	(12120619)	609499.09
4201917.70	0.12558	(12120619)		
609514.09	4201917.70	0.12527	(10121002)	609529.09
4201917.70	0.11760	(10012503)		
609544.09	4201917.70	0.11565	(09022304)	609109.09
4201932.70	0.11458	(10122508)		
609124.09	4201932.70	0.11514	(10122508)	609139.09
4201932.70	0.11725	(11022122)		
609154.09	4201932.70	0.12538	(10011607)	609169.09
4201932.70	0.12979	(11010301)		
609184.09	4201932.70	0.12619	(11010301)	609199.09
4201932.70	0.12851	(13121217)		
609214.09	4201932.70	0.13403	(09123119)	609229.09
4201932.70	0.13328	(10010301)		
609244.09	4201932.70	0.13657	(10010301)	609259.09
4201932.70	0.14687	(09012222)		
609274.09	4201932.70	0.15113	(09012222)	609289.09

4201932.70	0.15291	(10010720)	
609334.09	4201932.70	0.14222	(12020204) 609349.09
4201932.70	0.13765	(13122024)	
609364.09	4201932.70	0.14977	(09012323) 609379.09
4201932.70	0.14841	(09012323)	
609394.09	4201932.70	0.13565	(12123104) 609409.09
4201932.70	0.14643	(09012120)	
609424.09	4201932.70	0.14480	(09012120) 609439.09
4201932.70	0.14075	(12012619)	
609454.09	4201932.70	0.13821	(12012619) 609469.09
4201932.70	0.13746	(09122003)	
609484.09	4201932.70	0.13782	(12120619) 609499.09
4201932.70	0.13424	(10121002)	
609514.09	4201932.70	0.12945	(10012503) 609529.09
4201932.70	0.11936	(09022304)	
609544.09	4201932.70	0.12440	(09022304) 609559.09
4201932.70	0.12070	(11011324)	
609079.09	4201947.70	0.11204	(09010524) 609094.09
4201947.70	0.11755	(10121905)	
609109.09	4201947.70	0.11842	(10121905) 609124.09
4201947.70	0.12287	(10122508)	
609139.09	4201947.70	0.12339	(11020922) 609154.09
4201947.70	0.12912	(10011607)	
609169.09	4201947.70	0.13402	(11010301) 609184.09
4201947.70	0.13838	(11010301)	
609199.09	4201947.70	0.13542	(12020820) 609214.09
4201947.70	0.13807	(09123119)	
609229.09	4201947.70	0.14414	(09123119) 609244.09
4201947.70	0.14633	(10010301)	
609259.09	4201947.70	0.15103	(09012222) 609274.09
4201947.70	0.16209	(09012222)	
609289.09	4201947.70	0.16307	(10010720) 609304.09
4201947.70	0.15218	(10010720)	
609334.09	4201947.70	0.15238	(12020204) 609349.09
4201947.70	0.14672	(13122024)	
609364.09	4201947.70	0.16010	(09012323) 609379.09
4201947.70	0.15713	(09012323)	
609394.09	4201947.70	0.14427	(12123104) 609409.09
4201947.70	0.15762	(09012120)	
609424.09	4201947.70	0.15114	(09012120) 609439.09
4201947.70	0.15132	(12012619)	
609454.09	4201947.70	0.14771	(09122003) 609469.09
4201947.70	0.14545	(12120619)	
609484.09	4201947.70	0.14400	(12120619) 609499.09
4201947.70	0.14217	(10121002)	
609514.09	4201947.70	0.13285	(10012503) 609529.09
4201947.70	0.13189	(09022304)	
609544.09	4201947.70	0.13035	(11011324) 609559.09
4201947.70	0.12345	(09120624)	
609574.09	4201947.70	0.11737	(10022822) 609064.09

4201962.70	0.11399	(10120519)		
609079.09	4201962.70	0.11749	(10020602)	609094.09
4201962.70	0.11969	(09010524)		
609109.09	4201962.70	0.12586	(10121905)	609124.09
4201962.70	0.12655	(12021405)		
609139.09	4201962.70	0.13191	(10122508)	609154.09
4201962.70	0.13286	(11020922)		
609169.09	4201962.70	0.14158	(10011607)	609184.09
4201962.70	0.14703	(11010301)		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/22/21  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): STCK1 , VOL2

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609199.09	4201962.70	0.14480	(11010301)	609214.09
4201962.70	0.14643	(13121217)		
609229.09	4201962.70	0.15352	(09123119)	609244.09
4201962.70	0.15447	(10010301)		
609259.09	4201962.70	0.15330	(09012222)	609274.09
4201962.70	0.17244	(09012222)		
609289.09	4201962.70	0.17311	(10010720)	609304.09
4201962.70	0.16680	(10010720)		
609349.09	4201962.70	0.15683	(13122024)	609364.09
4201962.70	0.17161	(09012323)		
609379.09	4201962.70	0.16662	(09012323)	609394.09
4201962.70	0.15459	(09012120)		
609409.09	4201962.70	0.16931	(09012120)	609424.09
4201962.70	0.15682	(09012120)		
609439.09	4201962.70	0.16130	(12012619)	609454.09
4201962.70	0.15828	(09122003)		
609469.09	4201962.70	0.15727	(12120619)	609484.09
4201962.70	0.15264	(10121002)		



609499.09	4201962.70	0.14750	(10012503)	609514.09
4201962.70	0.13761	(09022304)		
609529.09	4201962.70	0.14123	(09022304)	609544.09
4201962.70	0.13496	(11011324)		
609559.09	4201962.70	0.12751	(09120624)	609574.09
4201962.70	0.12737	(10011219)		
609589.09	4201962.70	0.12347	(10011219)	609604.09
4201962.70	0.11593	(11123024)		
609049.09	4201977.70	0.11365	(09020508)	609064.09
4201977.70	0.11602	(09123118)		
609079.09	4201977.70	0.12198	(10120519)	609094.09
4201977.70	0.12593	(10020602)		
609109.09	4201977.70	0.12818	(09010524)	609124.09
4201977.70	0.13563	(10121905)		
609139.09	4201977.70	0.13722	(10122508)	609154.09
4201977.70	0.14144	(10122508)		
609169.09	4201977.70	0.14359	(10011607)	609184.09
4201977.70	0.15354	(10011607)		
609199.09	4201977.70	0.15886	(11010301)	609214.09
4201977.70	0.15520	(12020820)		
609229.09	4201977.70	0.15993	(09123119)	609244.09
4201977.70	0.16431	(09123119)		
609259.09	4201977.70	0.16708	(10010301)	609274.09
4201977.70	0.18163	(09012222)		
609289.09	4201977.70	0.18316	(09010108)	609304.09
4201977.70	0.18261	(10010720)		
609319.09	4201977.70	0.16814	(12020204)	609349.09
4201977.70	0.16814	(13122024)		
609364.09	4201977.70	0.18449	(09012323)	609379.09
4201977.70	0.17706	(09012323)		
609394.09	4201977.70	0.17029	(09012120)	609409.09
4201977.70	0.18124	(09012120)		
609424.09	4201977.70	0.17014	(12012619)	609439.09
4201977.70	0.17031	(12012619)		
609454.09	4201977.70	0.16736	(09122003)	609469.09
4201977.70	0.16703	(12120619)		
609484.09	4201977.70	0.16350	(10121002)	609499.09
4201977.70	0.15199	(10012503)		
609514.09	4201977.70	0.15206	(09022304)	609529.09
4201977.70	0.14834	(11011324)		
609544.09	4201977.70	0.13984	(09120624)	609559.09
4201977.70	0.13614	(10011219)		
609574.09	4201977.70	0.13428	(10011219)	609589.09
4201977.70	0.12401	(11123024)		
609604.09	4201977.70	0.12350	(11123024)	609619.09
4201977.70	0.11736	(09010206)		
609049.09	4201992.70	0.11618	(10020603)	609064.09
4201992.70	0.12142	(09020508)		
609079.09	4201992.70	0.12448	(09123118)	609094.09
4201992.70	0.13091	(10120519)		

609109.09	4201992.70	0.13557	(10020602)	609124.09
4201992.70	0.13889	(10010802)		
609139.09	4201992.70	0.14676	(10121905)	609154.09
4201992.70	0.15001	(10122508)		
609169.09	4201992.70	0.15122	(11020922)	609184.09
4201992.70	0.16005	(10011607)		
609199.09	4201992.70	0.16796	(11010301)	609214.09
4201992.70	0.16832	(11010301)		
609229.09	4201992.70	0.16911	(13121217)	609244.09
4201992.70	0.17789	(09123119)		
609259.09	4201992.70	0.18021	(10010301)	609274.09
4201992.70	0.18902	(09012222)		

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): STCK1 , VOL2

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609289.09	4201992.70	0.19865	(09012222)	609304.09
4201992.70	0.19945	(10010720)		
609319.09	4201992.70	0.17788	(12020204)	609364.09
4201992.70	0.19902	(09012323)		
609379.09	4201992.70	0.18848	(09012323)	609394.09
4201992.70	0.18769	(09012120)		
609409.09	4201992.70	0.19326	(09012120)	609424.09
4201992.70	0.18636	(12012619)		
609439.09	4201992.70	0.18267	(09122003)	609454.09
4201992.70	0.18127	(12120619)		
609469.09	4201992.70	0.17607	(10121002)	609484.09
4201992.70	0.17073	(10012503)		
609499.09	4201992.70	0.16102	(09022304)	609514.09
4201992.70	0.16197	(09022304)		
609529.09	4201992.70	0.15271	(09120624)	609544.09

4201992.70	0.14522	(10011219)		
609559.09	4201992.70	0.14623	(10011219)	609574.09
4201992.70	0.13447	(10011219)		
609589.09	4201992.70	0.13356	(11123024)	609604.09
4201992.70	0.12680	(09010206)		
609619.09	4201992.70	0.12010	(13020419)	609634.09
4201992.70	0.11310	(13012505)		
609034.09	4202007.70	0.11311	(10011708)	609049.09
4202007.70	0.12006	(10011708)		
609064.09	4202007.70	0.12485	(10020603)	609079.09
4202007.70	0.13053	(09020508)		
609094.09	4202007.70	0.13430	(09123118)	609109.09
4202007.70	0.14139	(10120519)		
609124.09	4202007.70	0.14712	(10020602)	609139.09
4202007.70	0.15206	(10121905)		
609154.09	4202007.70	0.15881	(10121905)	609169.09
4202007.70	0.16378	(10122508)		
609184.09	4202007.70	0.16512	(11020922)	609199.09
4202007.70	0.17737	(10011607)		
609214.09	4202007.70	0.18468	(11010301)	609229.09
4202007.70	0.18047	(12020820)		
609244.09	4202007.70	0.18794	(09123119)	609259.09
4202007.70	0.19079	(10010301)		
609274.09	4202007.70	0.19392	(09012222)	609289.09
4202007.70	0.21565	(09012222)		
609304.09	4202007.70	0.21711	(10010720)	609319.09
4202007.70	0.19124	(10010720)		
609334.09	4202007.70	0.20600	(12020204)	609379.09
4202007.70	0.20089	(09012323)		
609394.09	4202007.70	0.20684	(09012120)	609409.09
4202007.70	0.20514	(09012120)		
609424.09	4202007.70	0.20238	(12012619)	609439.09
4202007.70	0.19785	(09122003)		
609454.09	4202007.70	0.19614	(12120619)	609469.09
4202007.70	0.19087	(10121002)		
609484.09	4202007.70	0.17643	(10012503)	609499.09
4202007.70	0.17739	(09022304)		
609514.09	4202007.70	0.16976	(11011324)	609529.09
4202007.70	0.15816	(09120624)		
609544.09	4202007.70	0.15923	(10011219)	609559.09
4202007.70	0.14855	(10011219)		
609574.09	4202007.70	0.14495	(11123024)	609589.09
4202007.70	0.13759	(09010206)		
609604.09	4202007.70	0.12975	(13020419)	609619.09
4202007.70	0.12287	(13012505)		
609634.09	4202007.70	0.12305	(13012505)	609649.09
4202007.70	0.11672	(13012505)		
609034.09	4202022.70	0.11967	(10011203)	609049.09
4202022.70	0.12206	(10011203)		
609064.09	4202022.70	0.12867	(10011708)	609079.09

4202022.70	0.13475	(10020603)		
609094.09	4202022.70	0.14085	(09020508)	609109.09
4202022.70	0.14556	(09123118)		
609124.09	4202022.70	0.15379	(10120519)	609139.09
4202022.70	0.16055	(10020602)		
609154.09	4202022.70	0.16705	(10121905)	609169.09
4202022.70	0.17195	(10121905)		
609184.09	4202022.70	0.17895	(10122508)	609199.09
4202022.70	0.18197	(10011607)		
609214.09	4202022.70	0.19406	(10011607)	609229.09
4202022.70	0.19872	(11010301)		
609244.09	4202022.70	0.19848	(13121217)	609259.09
4202022.70	0.20884	(09123119)		
609274.09	4202022.70	0.21136	(10010301)	609289.09
4202022.70	0.23171	(09012222)		

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): STCK1 , VOL2

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609304.09	4202022.70	0.23527	(10010720)	609319.09
4202022.70	0.21557	(10010720)		
609334.09	4202022.70	0.22375	(12020204)	609349.09
4202022.70	0.21199	(13122024)		
609379.09	4202022.70	0.21444	(09012323)	609394.09
4202022.70	0.22779	(09012120)		
609409.09	4202022.70	0.21628	(09012120)	609424.09
4202022.70	0.21725	(12012619)		
609439.09	4202022.70	0.21040	(09122003)	609454.09
4202022.70	0.20692	(12120619)		
609469.09	4202022.70	0.20052	(10012503)	609484.09
4202022.70	0.19090	(09022304)		

609499.09	4202022.70	0.18865	(11011324)	609514.09
4202022.70	0.17636	(09120624)		
609529.09	4202022.70	0.17337	(10011219)	609544.09
4202022.70	0.16464	(10011219)		
609559.09	4202022.70	0.15793	(11123024)	609574.09
4202022.70	0.14999	(09010206)		
609589.09	4202022.70	0.14079	(13020419)	609604.09
4202022.70	0.13404	(13012505)		
609619.09	4202022.70	0.13314	(13012505)	609634.09
4202022.70	0.12484	(13012505)		
609649.09	4202022.70	0.11622	(11021321)	609664.09
4202022.70	0.11549	(09122007)		
609019.09	4202037.70	0.12535	(10011620)	609034.09
4202037.70	0.12213	(10011622)		
609049.09	4202037.70	0.12759	(10011203)	609064.09
4202037.70	0.13290	(10011203)		
609079.09	4202037.70	0.13844	(10011708)	609094.09
4202037.70	0.14612	(10020603)		
609109.09	4202037.70	0.15291	(09020508)	609124.09
4202037.70	0.15913	(09123118)		
609139.09	4202037.70	0.16837	(10120519)	609154.09
4202037.70	0.17587	(10020602)		
609169.09	4202037.70	0.18447	(10121905)	609184.09
4202037.70	0.18838	(12021405)		
609199.09	4202037.70	0.19519	(10122508)	609214.09
4202037.70	0.20637	(10011607)		
609229.09	4202037.70	0.21774	(11010301)	609244.09
4202037.70	0.21365	(12020820)		
609259.09	4202037.70	0.22474	(09123119)	609274.09
4202037.70	0.22981	(10010301)		
609289.09	4202037.70	0.24561	(09012222)	609304.09
4202037.70	0.25332	(10010720)		
609319.09	4202037.70	0.24313	(10010720)	609334.09
4202037.70	0.24383	(12020204)		
609349.09	4202037.70	0.23114	(13122024)	609394.09
4202037.70	0.25041	(09012120)		
609409.09	4202037.70	0.23638	(12012619)	609424.09
4202037.70	0.23434	(09122003)		
609439.09	4202037.70	0.23331	(12120619)	609454.09
4202037.70	0.22670	(10121002)		
609469.09	4202037.70	0.20810	(10012503)	609484.09
4202037.70	0.20937	(09022304)		
609499.09	4202037.70	0.19576	(09120624)	609514.09
4202037.70	0.18859	(10011219)		
609529.09	4202037.70	0.18309	(10011219)	609544.09
4202037.70	0.17284	(11123024)		
609559.09	4202037.70	0.16438	(09010206)	609574.09
4202037.70	0.15353	(13020419)		
609589.09	4202037.70	0.14690	(13012505)	609604.09
4202037.70	0.14454	(13012505)		

609619.09	4202037.70	0.13374	(13012505)	609634.09
4202037.70	0.12660	(09122007)		
609649.09	4202037.70	0.12517	(09122007)	609664.09
4202037.70	0.12058	(10120324)		
609679.09	4202037.70	0.11319	(10120324)	609019.09
4202052.70	0.14463	(10011620)		
609034.09	4202052.70	0.14205	(10011620)	609049.09
4202052.70	0.13299	(10011620)		
609064.09	4202052.70	0.13611	(10011622)	609079.09
4202052.70	0.14505	(10011203)		
609094.09	4202052.70	0.14918	(10011708)	609109.09
4202052.70	0.15889	(10020603)		
609124.09	4202052.70	0.16676	(09020508)	609139.09
4202052.70	0.17460	(09123118)		
609154.09	4202052.70	0.18521	(10120519)	609169.09
4202052.70	0.19402	(10020602)		
609184.09	4202052.70	0.20485	(10121905)	609199.09
4202052.70	0.21054	(10122508)		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): STCK1 , VOL2

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609214.09	4202052.70	0.21419	(11020922)	609229.09
4202052.70	0.23153	(10011607)		
609244.09	4202052.70	0.23908	(11010301)	609259.09
4202052.70	0.23771	(13121217)		
609274.09	4202052.70	0.24887	(09123119)	609289.09
4202052.70	0.25588	(09012222)		
609304.09	4202052.70	0.27888	(09012222)	609319.09
4202052.70	0.27410	(10010720)		
609334.09	4202052.70	0.26659	(12020204)	609349.09

4202052.70	0.25343	(13122024)		
609364.09	4202052.70	0.28093	(09012323)	609394.09
4202052.70	0.27446	(09012120)		
609409.09	4202052.70	0.26336	(12012619)	609424.09
4202052.70	0.25738	(09122003)		
609439.09	4202052.70	0.25207	(12120619)	609454.09
4202052.70	0.24094	(10121002)		
609469.09	4202052.70	0.23048	(09022304)	609484.09
4202052.70	0.22228	(11011324)		
609499.09	4202052.70	0.20465	(10011219)	609514.09
4202052.70	0.20426	(10011219)		
609529.09	4202052.70	0.19009	(11123024)	609544.09
4202052.70	0.18122	(09010206)		
609559.09	4202052.70	0.16838	(13020419)	609574.09
4202052.70	0.16184	(13012505)		
609589.09	4202052.70	0.15747	(13012505)	609604.09
4202052.70	0.14357	(11021321)		
609619.09	4202052.70	0.13950	(09122007)	609634.09
4202052.70	0.13537	(09122007)		
609649.09	4202052.70	0.12945	(10120324)	609664.09
4202052.70	0.11941	(12022704)		
609679.09	4202052.70	0.11554	(12022704)	609694.09
4202052.70	0.11002	(10121903)		
609004.09	4202067.70	0.14484	(10122204)	609019.09
4202067.70	0.14916	(10011620)		
609034.09	4202067.70	0.15734	(10011620)	609049.09
4202067.70	0.15943	(10011620)		
609064.09	4202067.70	0.15440	(10011620)	609079.09
4202067.70	0.14890	(10011622)		
609094.09	4202067.70	0.15763	(10011203)	609109.09
4202067.70	0.16293	(10011203)		
609124.09	4202067.70	0.17397	(10011708)	609139.09
4202067.70	0.18246	(09020508)		
609154.09	4202067.70	0.19292	(09123118)	609169.09
4202067.70	0.20522	(10120519)		
609184.09	4202067.70	0.21499	(10020602)	609199.09
4202067.70	0.22799	(10121905)		
609214.09	4202067.70	0.23598	(10122508)	609229.09
4202067.70	0.24154	(10011607)		
609244.09	4202067.70	0.26135	(11010301)	609259.09
4202067.70	0.25897	(12020820)		
609274.09	4202067.70	0.27480	(09123119)	609289.09
4202067.70	0.28007	(10010301)		
609304.09	4202067.70	0.30865	(09012222)	609319.09
4202067.70	0.30846	(10010720)		
609334.09	4202067.70	0.29250	(12020204)	609349.09
4202067.70	0.27963	(13022419)		
609364.09	4202067.70	0.31020	(09012323)	609409.09
4202067.70	0.28969	(12012619)		
609424.09	4202067.70	0.28147	(12120619)	609439.09

4202067.70	0.27561	(10121002)		
609454.09	4202067.70	0.25119	(10012503)	609469.09
4202067.70	0.25124	(11011324)		
609484.09	4202067.70	0.23257	(09120624)	609499.09
4202067.70	0.22872	(10011219)		
609514.09	4202067.70	0.21034	(11123024)	609529.09
4202067.70	0.20133	(09010206)		
609544.09	4202067.70	0.18606	(13020419)	609559.09
4202067.70	0.17945	(13012505)		
609574.09	4202067.70	0.17232	(13012505)	609589.09
4202067.70	0.15660	(11021321)		
609604.09	4202067.70	0.15385	(09122007)	609619.09
4202067.70	0.14784	(10120324)		
609634.09	4202067.70	0.13820	(10120324)	609649.09
4202067.70	0.13034	(12022704)		
609664.09	4202067.70	0.12320	(12022704)	609679.09
4202067.70	0.11872	(10121903)		
609694.09	4202067.70	0.11155	(10121903)	609709.09
4202067.70	0.10246	(10121903)		
609004.09	4202082.70	0.14360	(10011002)	609019.09
4202082.70	0.15304	(10122204)		

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 \*\*\*  
 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): STCK1 , VOL2

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609034.09	4202082.70	0.16184	(10122204)	609049.09
4202082.70	0.16862	(10011620)		
609064.09	4202082.70	0.17703	(10011620)	609079.09
4202082.70	0.17733	(10011620)		
609094.09	4202082.70	0.16786	(10011620)	609109.09
4202082.70	0.17050	(10011203)		



609124.09	4202082.70	0.18102	(10011203)	609139.09
4202082.70	0.19159	(10011708)		
609154.09	4202082.70	0.20279	(10020603)	609169.09
4202082.70	0.21461	(09020508)		
609184.09	4202082.70	0.22861	(10120519)	609199.09
4202082.70	0.23969	(10020602)		
609214.09	4202082.70	0.25504	(10121905)	609229.09
4202082.70	0.26438	(10122508)		
609244.09	4202082.70	0.28005	(10011607)	609259.09
4202082.70	0.29475	(11010301)		
609274.09	4202082.70	0.29238	(13121217)	609289.09
4202082.70	0.30763	(10010301)		
609304.09	4202082.70	0.33631	(09012222)	609319.09
4202082.70	0.34581	(10010720)		
609334.09	4202082.70	0.32202	(12020204)	609349.09
4202082.70	0.31326	(13022419)		
609364.09	4202082.70	0.34472	(09012323)	609409.09
4202082.70	0.31638	(09122003)		
609424.09	4202082.70	0.31372	(12120619)	609439.09
4202082.70	0.29737	(10121002)		
609454.09	4202082.70	0.28483	(09022304)	609469.09
4202082.70	0.26502	(09120624)		
609484.09	4202082.70	0.25664	(10011219)	609499.09
4202082.70	0.23487	(10011219)		
609514.09	4202082.70	0.22544	(11123024)	609529.09
4202082.70	0.20712	(13020419)		
609544.09	4202082.70	0.20026	(13012505)	609559.09
4202082.70	0.18932	(13012505)		
609574.09	4202082.70	0.17274	(09122007)	609589.09
4202082.70	0.16955	(09122007)		
609604.09	4202082.70	0.16102	(10120324)	609619.09
4202082.70	0.14769	(12022704)		
609634.09	4202082.70	0.14109	(12022704)	609649.09
4202082.70	0.13438	(10121903)		
609664.09	4202082.70	0.12653	(10121903)	609679.09
4202082.70	0.11607	(10121903)		
609694.09	4202082.70	0.10419	(10121903)	609709.09
4202082.70	0.09867	(11011122)		
609004.09	4202097.70	0.14790	(10021222)	609019.09
4202097.70	0.15663	(10021222)		
609034.09	4202097.70	0.16152	(10021222)	609049.09
4202097.70	0.17313	(10122204)		
609064.09	4202097.70	0.18339	(10122204)	609079.09
4202097.70	0.19304	(10011620)		
609094.09	4202097.70	0.20082	(10011620)	609109.09
4202097.70	0.19748	(10011620)		
609124.09	4202097.70	0.18790	(10011622)	609139.09
4202097.70	0.20113	(10011203)		
609154.09	4202097.70	0.21100	(10011708)	609169.09
4202097.70	0.22640	(10020603)		

609184.09	4202097.70	0.24073	(09020508)	609199.09
4202097.70	0.25701	(10120519)		
609214.09	4202097.70	0.26964	(10020602)	609229.09
4202097.70	0.28638	(10121905)		
609244.09	4202097.70	0.29506	(10122508)	609259.09
4202097.70	0.32016	(10011607)		
609274.09	4202097.70	0.32297	(12020820)	609289.09
4202097.70	0.34469	(09123119)		
609304.09	4202097.70	0.35895	(09012222)	609319.09
4202097.70	0.38517	(10010720)		
609334.09	4202097.70	0.35569	(12020204)	609349.09
4202097.70	0.35398	(13022419)		
609364.09	4202097.70	0.38585	(09012323)	609409.09
4202097.70	0.35456	(09122003)		
609424.09	4202097.70	0.34451	(10121002)	609439.09
4202097.70	0.31412	(09022304)		
609454.09	4202097.70	0.31012	(11011324)	609469.09
4202097.70	0.28790	(10011219)		
609484.09	4202097.70	0.27127	(10011219)	609499.09
4202097.70	0.25548	(11123024)		
609514.09	4202097.70	0.23234	(13020419)	609529.09
4202097.70	0.22499	(13012505)		
609544.09	4202097.70	0.20875	(13012505)	609559.09
4202097.70	0.19501	(09122007)		

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): STCK1 , VOL2

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609574.09	4202097.70	0.18750	(10120324)	609589.09
4202097.70	0.17433	(10120324)		
609604.09	4202097.70	0.16285	(12022704)	609619.09

4202097.70	0.15353	(10121903)	
609634.09	4202097.70	0.14502	(10121903) 609649.09
4202097.70	0.13284	(10121903)	
609664.09	4202097.70	0.11870	(10121903) 609679.09
4202097.70	0.11108	(11011122)	
609694.09	4202097.70	0.10415	(11011122) 609709.09
4202097.70	0.09715	(09020423)	
609724.09	4202097.70	0.09496	(09020423) 608989.09
4202112.70	0.14728	(10122201)	
609004.09	4202112.70	0.15226	(10021223) 609019.09
4202112.70	0.15779	(10021223)	
609034.09	4202112.70	0.16560	(10021222) 609049.09
4202112.70	0.17730	(10021222)	
609064.09	4202112.70	0.18420	(10021222) 609079.09
4202112.70	0.19827	(10122204)	
609094.09	4202112.70	0.21014	(10122204) 609109.09
4202112.70	0.22323	(10011620)	
609124.09	4202112.70	0.22928	(10011620) 609139.09
4202112.70	0.21990	(10011620)	
609154.09	4202112.70	0.22239	(10011203) 609169.09
4202112.70	0.23391	(10011203)	
609184.09	4202112.70	0.25425	(10020603) 609199.09
4202112.70	0.27237	(09020508)	
609214.09	4202112.70	0.29166	(10120519) 609229.09
4202112.70	0.30787	(10121905)	
609244.09	4202112.70	0.32676	(10122508) 609259.09
4202112.70	0.34262	(10011607)	
609274.09	4202112.70	0.37406	(11010301) 609289.09
4202112.70	0.37638	(09123119)	
609304.09	4202112.70	0.39622	(10010301) 609319.09
4202112.70	0.43445	(09012222)	
609334.09	4202112.70	0.40454	(10010720) 609349.09
4202112.70	0.40401	(13022419)	
609364.09	4202112.70	0.43540	(09012323) 609379.09
4202112.70	0.42859	(09012120)	
609409.09	4202112.70	0.40131	(12120619) 609424.09
4202112.70	0.37997	(10121002)	
609439.09	4202112.70	0.36108	(09022304) 609454.09
4202112.70	0.32776	(09120624)	
609469.09	4202112.70	0.31589	(10011219) 609484.09
4202112.70	0.29259	(11123024)	
609499.09	4202112.70	0.26320	(13020419) 609514.09
4202112.70	0.25482	(13012505)	
609529.09	4202112.70	0.23111	(13012505) 609544.09
4202112.70	0.22040	(09122007)	
609559.09	4202112.70	0.20821	(10120324) 609574.09
4202112.70	0.18942	(12022704)	
609589.09	4202112.70	0.17762	(12022704) 609604.09
4202112.70	0.16824	(10121903)	
609619.09	4202112.70	0.15396	(10121903) 609634.09

4202112.70	0.13686	(10121903)		
609649.09	4202112.70	0.12641	(11011122)	609664.09
4202112.70	0.11759	(11011122)		
609679.09	4202112.70	0.11060	(09020423)	609694.09
4202112.70	0.10716	(09020423)		
609709.09	4202112.70	0.10236	(09020423)	609724.09
4202112.70	0.09906	(11011323)		
608989.09	4202127.70	0.14969	(13012320)	609004.09
4202127.70	0.15519	(13012320)		
609019.09	4202127.70	0.16522	(10122201)	609034.09
4202127.70	0.17316	(10122201)		
609049.09	4202127.70	0.18021	(10021223)	609064.09
4202127.70	0.18701	(10021222)		
609079.09	4202127.70	0.20265	(10021222)	609094.09
4202127.70	0.21238	(10021222)		
609109.09	4202127.70	0.22972	(10122204)	609124.09
4202127.70	0.24346	(10122204)		
609139.09	4202127.70	0.26057	(10011620)	609154.09
4202127.70	0.26275	(10011620)		
609169.09	4202127.70	0.24767	(10011622)	609184.09
4202127.70	0.26732	(10011203)		
609199.09	4202127.70	0.28719	(10011708)	609214.09
4202127.70	0.31100	(09020508)		
609229.09	4202127.70	0.33496	(10120519)	609244.09
4202127.70	0.35928	(10121905)		
609259.09	4202127.70	0.38256	(10122508)	609274.09
4202127.70	0.41086	(10011607)		

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): STCK1 , VOL2

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
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609289.09	4202127.70	0.42020	(11010301)	609304.09
4202127.70	0.44694	(09123119)		
609319.09	4202127.70	0.49583	(09012222)	609334.09
4202127.70	0.48293	(10010720)		
609349.09	4202127.70	0.46652	(13022419)	609364.09
4202127.70	0.49580	(09012323)		
609379.09	4202127.70	0.49213	(09012120)	609409.09
4202127.70	0.44751	(12120619)		
609424.09	4202127.70	0.41459	(09022304)	609439.09
4202127.70	0.38924	(11011324)		
609454.09	4202127.70	0.37097	(10011219)	609469.09
4202127.70	0.33932	(11123024)		
609484.09	4202127.70	0.30167	(13020419)	609499.09
4202127.70	0.29128	(13012505)		
609514.09	4202127.70	0.25692	(13012505)	609529.09
4202127.70	0.24903	(09122007)		
609544.09	4202127.70	0.22986	(10120324)	609559.09
4202127.70	0.21159	(12022704)		
609574.09	4202127.70	0.19802	(10121903)	609589.09
4202127.70	0.18116	(10121903)		
609604.09	4202127.70	0.16009	(10121903)	609619.09
4202127.70	0.14571	(11011122)		
609634.09	4202127.70	0.13425	(11011122)	609649.09
4202127.70	0.12718	(09020423)		
609664.09	4202127.70	0.12190	(09020423)	609679.09
4202127.70	0.11660	(11011323)		
609694.09	4202127.70	0.11225	(11011323)	609709.09
4202127.70	0.10675	(11011323)		
609724.09	4202127.70	0.10049	(11011323)	608974.09
4202142.70	0.14304	(13010602)		
608989.09	4202142.70	0.15093	(13010602)	609004.09
4202142.70	0.15933	(12120523)		
609019.09	4202142.70	0.16744	(13012320)	609034.09
4202142.70	0.17705	(13012320)		
609049.09	4202142.70	0.18557	(10122201)	609064.09
4202142.70	0.19829	(10122201)		
609079.09	4202142.70	0.20731	(10021223)	609094.09
4202142.70	0.21604	(10021223)		
609109.09	4202142.70	0.23450	(10021222)	609124.09
4202142.70	0.24847	(10021222)		
609139.09	4202142.70	0.27035	(10122204)	609154.09
4202142.70	0.28855	(10011620)		
609169.09	4202142.70	0.30804	(10011620)	609184.09
4202142.70	0.30187	(10011620)		
609199.09	4202142.70	0.30485	(10011203)	609214.09
4202142.70	0.32881	(10011708)		
609229.09	4202142.70	0.35924	(09020508)	609244.09
4202142.70	0.39054	(10121405)		
609259.09	4202142.70	0.42469	(10121905)	609274.09
4202142.70	0.44863	(10122508)		

609289.09	4202142.70	0.49343	(11010301)	609304.09
4202142.70	0.50953	(09123119)		
609319.09	4202142.70	0.55195	(09012222)	609334.09
4202142.70	0.57719	(10010720)		
609349.09	4202142.70	0.54644	(12020204)	609364.09
4202142.70	0.57039	(09012323)		
609379.09	4202142.70	0.56157	(09012120)	609409.09
4202142.70	0.50980	(10121002)		
609424.09	4202142.70	0.47519	(11011324)	609439.09
4202142.70	0.43902	(10011219)		
609454.09	4202142.70	0.39938	(11123024)	609469.09
4202142.70	0.35061	(13020419)		
609484.09	4202142.70	0.33644	(13012505)	609499.09
4202142.70	0.30155	(09122007)		
609514.09	4202142.70	0.28445	(10120324)	609529.09
4202142.70	0.25556	(12022704)		
609544.09	4202142.70	0.23710	(10121903)	609559.09
4202142.70	0.21715	(10121903)		
609574.09	4202142.70	0.19061	(10121903)	609589.09
4202142.70	0.17061	(11011122)		
609604.09	4202142.70	0.15533	(11011122)	609619.09
4202142.70	0.14795	(09020423)		
609634.09	4202142.70	0.13993	(11011323)	609649.09
4202142.70	0.13472	(11011323)		
609664.09	4202142.70	0.12775	(11011323)	609679.09
4202142.70	0.11964	(11011323)		
609694.09	4202142.70	0.11322	(12013024)	609709.09
4202142.70	0.10727	(12012321)		
609724.09	4202142.70	0.10296	(10121022)	608974.09
4202157.70	0.14647	(10010205)		

\*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/22/21  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): STCK1 , VOL2

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

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

Y-COORD (M)	CONC	(YYMMDDHH)	
608989.09	4202157.70	0.15357	(09123103) 609004.09
4202157.70	0.16111	(09123103)	
609019.09	4202157.70	0.16898	(10122106) 609034.09
4202157.70	0.17892	(13010602)	
609049.09	4202157.70	0.19002	(12120523) 609064.09
4202157.70	0.20136	(13012320)	
609079.09	4202157.70	0.21421	(13012320) 609094.09
4202157.70	0.22791	(10122201)	
609109.09	4202157.70	0.24323	(10122201) 609124.09
4202157.70	0.25576	(10021223)	
609139.09	4202157.70	0.27548	(10021222) 609154.09
4202157.70	0.29630	(10021222)	
609169.09	4202157.70	0.32478	(10122204) 609184.09
4202157.70	0.35091	(10011620)	
609199.09	4202157.70	0.36824	(10011620) 609214.09
4202157.70	0.34705	(10011622)	
609229.09	4202157.70	0.37849	(10011708) 609244.09
4202157.70	0.42041	(09020508)	
609259.09	4202157.70	0.46346	(10121405) 609274.09
4202157.70	0.50912	(10121905)	
609289.09	4202157.70	0.54136	(10011607) 609304.09
4202157.70	0.58208	(11010301)	
609319.09	4202157.70	0.62256	(10010301) 609334.09
4202157.70	0.68752	(10010720)	
609349.09	4202157.70	0.65315	(12020204) 609364.09
4202157.70	0.66365	(09012323)	
609379.09	4202157.70	0.65060	(12012619) 609409.09
4202157.70	0.57718	(09022304)	
609424.09	4202157.70	0.52239	(10011219) 609439.09
4202157.70	0.47848	(11123024)	
609454.09	4202157.70	0.41441	(13020419) 609469.09
4202157.70	0.39321	(13012505)	
609484.09	4202157.70	0.35561	(09122007) 609499.09
4202157.70	0.32348	(10120324)	
609514.09	4202157.70	0.29049	(12022704) 609529.09
4202157.70	0.26636	(10121903)	
609544.09	4202157.70	0.23204	(10121903) 609559.09
4202157.70	0.20370	(11011122)	
609574.09	4202157.70	0.18360	(09020423) 609589.09
4202157.70	0.17444	(09020423)	
609604.09	4202157.70	0.16584	(11011323) 609619.09
4202157.70	0.15676	(11011323)	
609634.09	4202157.70	0.14590	(11011323) 609649.09
4202157.70	0.13668	(12013024)	
609664.09	4202157.70	0.12869	(12012321) 609679.09
4202157.70	0.12296	(10121022)	
609694.09	4202157.70	0.11670	(10121022) 609709.09

4202157.70	0.11003	(10121022)		
609724.09	4202157.70	0.10369	(13012506)	608959.09
4202172.70	0.14080	(12011923)		
608974.09	4202172.70	0.14792	(12011923)	608989.09
4202172.70	0.15563	(12012005)		
609004.09	4202172.70	0.16414	(12012005)	609019.09
4202172.70	0.17296	(10010205)		
609034.09	4202172.70	0.18261	(10010205)	609049.09
4202172.70	0.19318	(09123103)		
609064.09	4202172.70	0.20352	(09123103)	609079.09
4202172.70	0.21684	(13010602)		
609094.09	4202172.70	0.23237	(12120523)	609109.09
4202172.70	0.24884	(13012320)		
609124.09	4202172.70	0.26664	(13012320)	609139.09
4202172.70	0.28821	(10122201)		
609154.09	4202172.70	0.30720	(10021223)	609169.09
4202172.70	0.32989	(10021222)		
609184.09	4202172.70	0.36106	(10021222)	609199.09
4202172.70	0.39938	(10122204)		
609214.09	4202172.70	0.43645	(10011620)	609229.09
4202172.70	0.44491	(10011620)		
609244.09	4202172.70	0.45137	(10011203)	609259.09
4202172.70	0.50080	(10020603)		
609274.09	4202172.70	0.56182	(10121405)	609289.09
4202172.70	0.61931	(10121905)		
609304.09	4202172.70	0.68480	(10011607)	609319.09
4202172.70	0.73699	(09123119)		
609334.09	4202172.70	0.81865	(09012222)	609349.09
4202172.70	0.79568	(12020204)		
609364.09	4202172.70	0.78161	(09012323)	609379.09
4202172.70	0.78045	(12012619)		
609409.09	4202172.70	0.65581	(11011324)	609424.09
4202172.70	0.58550	(11123024)		

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 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/22/21  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): STCK1 , VOL2

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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



\*\*

X-COORD (M) Y-COORD (M)	Y-COORD (M) CONC (YYMMDDHH)	CONC	(YYMMDDHH)	X-COORD (M)
609439.09 4202172.70	4202172.70 0.46563 (13012505)	0.50644	(13012505)	609454.09
609469.09 4202172.70	4202172.70 0.37176 (12022704)	0.42229	(10120324)	609484.09
609499.09 4202172.70	4202172.70 0.29066 (10121903)	0.33642	(10121903)	609514.09
609529.09 4202172.70	4202172.70 0.22501 (12121308)	0.24928	(11011122)	609544.09
609559.09 4202172.70	4202172.70 0.19883 (11011323)	0.21096	(11011323)	609574.09
609589.09 4202172.70	4202172.70 0.16983 (12013024)	0.18360	(11011323)	609604.09
609619.09 4202172.70	4202172.70 0.15029 (10121022)	0.15896	(10121022)	609634.09
609649.09 4202172.70	4202172.70 0.13113 (13012506)	0.14081	(10121022)	609664.09
609679.09 4202172.70	4202172.70 0.11452 (13012506)	0.12283	(13012506)	609694.09
609709.09 4202172.70	4202172.70 0.10325 (09010202)	0.10828	(11121423)	609724.09
608959.09 4202187.70	4202187.70 0.15002 (12012524)	0.14249	(12012524)	608974.09
608989.09 4202187.70	4202187.70 0.16500 (09121618)	0.15748	(12012524)	609004.09
609019.09 4202187.70	4202187.70 0.18487 (12011923)	0.17412	(09121618)	609034.09
609049.09 4202187.70	4202187.70 0.20880 (12012005)	0.19570	(12011923)	609064.09
609079.09 4202187.70	4202187.70 0.23708 (10010205)	0.22212	(10010205)	609094.09
609109.09 4202187.70	4202187.70 0.27078 (10122106)	0.25364	(09123103)	609124.09
609139.09 4202187.70	4202187.70 0.31896 (13012320)	0.29338	(12120523)	609154.09
609169.09 4202187.70	4202187.70 0.37868 (10122201)	0.34494	(13012320)	609184.09
609199.09 4202187.70	4202187.70 0.45270 (10021222)	0.40515	(10021223)	609214.09
609229.09 4202187.70	4202187.70 0.55675 (10011620)	0.50649	(10122204)	609244.09
609259.09 4202187.70	4202187.70 0.61314 (10020603)	0.54126	(10011203)	609274.09
609409.09 4202187.70	4202187.70 0.63875 (13012505)	0.75713	(10011219)	609424.09

609439.09	4202187.70	0.56171	(09122007)	609454.09
4202187.70	0.50462	(10120324)		
609469.09	4202187.70	0.44132	(10121903)	609484.09
4202187.70	0.37807	(10121903)		
609499.09	4202187.70	0.31503	(11011122)	609514.09
4202187.70	0.28318	(12121308)		
609529.09	4202187.70	0.26380	(11011323)	609544.09
4202187.70	0.24117	(11011323)		
609559.09	4202187.70	0.21937	(12013024)	609574.09
4202187.70	0.20362	(10121022)		
609589.09	4202187.70	0.18931	(10121022)	609604.09
4202187.70	0.17425	(10121022)		
609619.09	4202187.70	0.16077	(13012506)	609634.09
4202187.70	0.14800	(13012506)		
609649.09	4202187.70	0.13881	(09010202)	609664.09
4202187.70	0.13102	(09010202)		
609679.09	4202187.70	0.12325	(09010202)	609694.09
4202187.70	0.11566	(09010202)		
609709.09	4202187.70	0.10834	(09010202)	609724.09
4202187.70	0.10154	(10021019)		
608959.09	4202202.70	0.14258	(09021723)	608974.09
4202202.70	0.14992	(11121204)		
608989.09	4202202.70	0.15796	(11121204)	609004.09
4202202.70	0.16617	(11121204)		
609019.09	4202202.70	0.17614	(09122008)	609034.09
4202202.70	0.18651	(09122008)		
609049.09	4202202.70	0.19890	(12012524)	609064.09
4202202.70	0.21178	(12012524)		
609079.09	4202202.70	0.22466	(12012524)	609094.09
4202202.70	0.23982	(09121618)		
609109.09	4202202.70	0.25826	(12011923)	609124.09
4202202.70	0.27849	(12012005)		
609139.09	4202202.70	0.30060	(10010205)	609154.09
4202202.70	0.32603	(10010205)		
609169.09	4202202.70	0.35393	(09123103)	609184.09
4202202.70	0.38764	(13010602)		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/22/21  
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 \*\*\* 11:10:05

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): STCK1 , VOL2

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609199.09	4202202.70	0.42869	(13012320)	609214.09
4202202.70	0.47438	(10122201)		
609229.09	4202202.70	0.52281	(10021223)	609244.09
4202202.70	0.58815	(10021222)		
609259.09	4202202.70	0.66717	(10122204)	609274.09
4202202.70	0.72815	(10011620)		
609409.09	4202202.70	0.83248	(13012505)	609424.09
4202202.70	0.71878	(09122007)		
609439.09	4202202.70	0.60904	(12022704)	609454.09
4202202.70	0.51800	(10121903)		
609469.09	4202202.70	0.41583	(11011122)	609484.09
4202202.70	0.37316	(11011323)		
609499.09	4202202.70	0.33690	(11011323)	609514.09
4202202.70	0.29939	(12013024)		
609529.09	4202202.70	0.27362	(10121022)	609544.09
4202202.70	0.24815	(10121022)		
609559.09	4202202.70	0.22395	(13012506)	609574.09
4202202.70	0.20227	(13012506)		
609589.09	4202202.70	0.18755	(09010202)	609604.09
4202202.70	0.17384	(09010202)		
609619.09	4202202.70	0.16061	(09010202)	609634.09
4202202.70	0.14810	(09010202)		
609649.09	4202202.70	0.13703	(10021019)	609664.09
4202202.70	0.12843	(10021019)		
609679.09	4202202.70	0.12028	(10021019)	609694.09
4202202.70	0.11468	(11021923)		
609709.09	4202202.70	0.10948	(11021923)	609724.09
4202202.70	0.10446	(11021923)		
608959.09	4202217.70	0.14348	(09020523)	608974.09
4202217.70	0.15143	(09020523)		
608989.09	4202217.70	0.15992	(09020523)	609004.09
4202217.70	0.16886	(09020523)		
609019.09	4202217.70	0.17831	(09020523)	609034.09
4202217.70	0.18830	(09020523)		
609049.09	4202217.70	0.20011	(09021723)	609064.09
4202217.70	0.21286	(09021723)		
609079.09	4202217.70	0.22650	(11121204)	609094.09
4202217.70	0.24283	(11121204)		
609109.09	4202217.70	0.26069	(09122008)	609124.09
4202217.70	0.28155	(09122008)		
609139.09	4202217.70	0.30644	(12012524)	609154.09

4202217.70	0.33290	(12012524)		
609169.09	4202217.70	0.36205	(09121618)	609184.09
4202217.70	0.39801	(12011923)		
609199.09	4202217.70	0.43998	(12012005)	609214.09
4202217.70	0.48796	(09123103)		
609229.09	4202217.70	0.54314	(13010602)	609244.09
4202217.70	0.61578	(13012320)		
609259.09	4202217.70	0.69978	(10122201)	609274.09
4202217.70	0.79688	(10021222)		
609484.09	4202217.70	0.39397	(10121022)	609499.09
4202217.70	0.34400	(13012506)		
609514.09	4202217.70	0.30222	(09010202)	609529.09
4202217.70	0.27328	(09010202)		
609544.09	4202217.70	0.24600	(09010202)	609559.09
4202217.70	0.22097	(09010202)		
609574.09	4202217.70	0.19991	(10021019)	609589.09
4202217.70	0.18563	(11021923)		
609604.09	4202217.70	0.17378	(11021923)	609619.09
4202217.70	0.16265	(11021923)		
609634.09	4202217.70	0.15226	(11021923)	609649.09
4202217.70	0.14257	(11021923)		
609664.09	4202217.70	0.13367	(11021923)	609679.09
4202217.70	0.12587	(12121606)		
609694.09	4202217.70	0.11884	(12121606)	609709.09
4202217.70	0.11232	(12121606)		
609724.09	4202217.70	0.10625	(12121606)	608959.09
4202232.70	0.14551	(12120423)		
608974.09	4202232.70	0.15354	(12120423)	608989.09
4202232.70	0.16225	(12120423)		
609004.09	4202232.70	0.17162	(12120423)	609019.09
4202232.70	0.18178	(12120423)		
609034.09	4202232.70	0.19283	(12120423)	609049.09
4202232.70	0.20487	(12120423)		
609064.09	4202232.70	0.21803	(12120423)	609079.09
4202232.70	0.23223	(12120423)		
609094.09	4202232.70	0.24774	(12120423)	609109.09
4202232.70	0.26476	(12120423)		
609124.09	4202232.70	0.28517	(09020523)	609139.09
4202232.70	0.30984	(09020523)		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/22/21  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): STCK1 , VOL2

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609154.09	4202232.70	0.33741	(09020523)	609169.09
4202232.70	0.36794	(09021723)		
609184.09	4202232.70	0.40421	(09021723)	609199.09
4202232.70	0.44672	(11121204)		
609214.09	4202232.70	0.49796	(09122008)	609229.09
4202232.70	0.56130	(12012524)		
609244.09	4202232.70	0.63188	(09121618)	609259.09
4202232.70	0.72059	(12012005)		
609274.09	4202232.70	0.82451	(09123103)	609424.09
4202232.70	0.74982	(10121022)		
609439.09	4202232.70	0.62621	(10121022)	609454.09
4202232.70	0.52335	(09010202)		
609469.09	4202232.70	0.44873	(09010202)	609484.09
4202232.70	0.38414	(09010202)		
609499.09	4202232.70	0.34337	(11021923)	609514.09
4202232.70	0.30840	(11021923)		
609529.09	4202232.70	0.27771	(11021923)	609544.09
4202232.70	0.25132	(12121606)		
609559.09	4202232.70	0.22912	(12121606)	609574.09
4202232.70	0.20954	(12121606)		
609589.09	4202232.70	0.19295	(12013101)	609604.09
4202232.70	0.17923	(12013101)		
609619.09	4202232.70	0.16684	(12013101)	609634.09
4202232.70	0.15570	(12013101)		
609649.09	4202232.70	0.14566	(12013101)	609664.09
4202232.70	0.13659	(12013101)		
609679.09	4202232.70	0.12838	(12013101)	609694.09
4202232.70	0.12088	(12013101)		
609709.09	4202232.70	0.11405	(12013101)	609724.09
4202232.70	0.10781	(12013101)		
608959.09	4202247.70	0.14168	(10013006)	608974.09
4202247.70	0.14930	(10013006)		
608989.09	4202247.70	0.15762	(10013006)	609004.09
4202247.70	0.16667	(10013006)		
609019.09	4202247.70	0.17659	(10013006)	609034.09
4202247.70	0.18751	(10013006)		
609049.09	4202247.70	0.19959	(10013006)	609064.09
4202247.70	0.21306	(10013006)		

609079.09	4202247.70	0.22794	(10013006)	609094.09
4202247.70	0.24458	(10013006)		
609109.09	4202247.70	0.26342	(10013006)	609124.09
4202247.70	0.28472	(10013006)		
609139.09	4202247.70	0.30894	(10013006)	609154.09
4202247.70	0.33707	(10121319)		
609169.09	4202247.70	0.37046	(10121319)	609184.09
4202247.70	0.40892	(10121319)		
609199.09	4202247.70	0.45415	(12120423)	609214.09
4202247.70	0.50905	(12120423)		
609229.09	4202247.70	0.57388	(12120423)	609244.09
4202247.70	0.65035	(12120423)		
609259.09	4202247.70	0.74009	(12120423)	609274.09
4202247.70	0.84417	(12120423)		
609424.09	4202247.70	0.75462	(12013101)	609439.09
4202247.70	0.63404	(12013101)		
609454.09	4202247.70	0.53875	(12013101)	609469.09
4202247.70	0.46306	(12013101)		
609484.09	4202247.70	0.40276	(12013101)	609499.09
4202247.70	0.35364	(12013101)		
609514.09	4202247.70	0.31307	(12013101)	609529.09
4202247.70	0.27940	(12013101)		
609544.09	4202247.70	0.25112	(12013101)	609559.09
4202247.70	0.22713	(12013101)		
609574.09	4202247.70	0.20664	(12013101)	609589.09
4202247.70	0.18909	(13120318)		
609604.09	4202247.70	0.17442	(13120318)	609619.09
4202247.70	0.16160	(11122517)		
609634.09	4202247.70	0.15034	(11122517)	609649.09
4202247.70	0.14039	(11122517)		
609664.09	4202247.70	0.13150	(11122517)	609679.09
4202247.70	0.12350	(11122517)		
609694.09	4202247.70	0.11629	(11122517)	609709.09
4202247.70	0.10976	(11122517)		
609724.09	4202247.70	0.10391	(12121805)	608959.09
4202262.70	0.14416	(10021206)		
608974.09	4202262.70	0.15188	(10021206)	608989.09
4202262.70	0.16032	(10021206)		
609004.09	4202262.70	0.16948	(10021206)	609019.09
4202262.70	0.17952	(10021206)		
609034.09	4202262.70	0.19057	(10021206)	609049.09
4202262.70	0.20279	(10021206)		

\*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/22/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
 \*\*\* 11:10:05

VALUES FOR SOURCE GROUP: ALL      \*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION \*\*\*  
 INCLUDING SOURCE(S):      STCK1      , VOL2

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	CONC (YYMMDDHH)	X-COORD (M)
609064.09	4202262.70	609079.09	4202262.70	0.21640 (10021206)	609079.09
4202262.70	0.23142 (10021206)				
609094.09	4202262.70	609109.09	4202262.70	0.24821 (10021206)	609109.09
4202262.70	0.26721 (10021206)				
609124.09	4202262.70	609139.09	4202262.70	0.28869 (10021206)	609139.09
4202262.70	0.31310 (10021206)				
609154.09	4202262.70	609169.09	4202262.70	0.34109 (10021206)	609169.09
4202262.70	0.37334 (10021206)				
609184.09	4202262.70	609199.09	4202262.70	0.41098 (10021206)	609199.09
4202262.70	0.45446 (10021206)				
609214.09	4202262.70	609229.09	4202262.70	0.50579 (12012004)	609229.09
4202262.70	0.57030 (12012004)				
609244.09	4202262.70	609259.09	4202262.70	0.64668 (12012004)	609259.09
4202262.70	0.73671 (12012004)				
609274.09	4202262.70	609424.09	4202262.70	0.84354 (09020604)	609424.09
4202262.70	0.74314 (10011408)				
609439.09	4202262.70	609454.09	4202262.70	0.62271 (10011408)	609454.09
4202262.70	0.52614 (10011408)				
609469.09	4202262.70	609484.09	4202262.70	0.44908 (10011408)	609484.09
4202262.70	0.38734 (10011408)				
609499.09	4202262.70	609514.09	4202262.70	0.34009 (13120321)	609514.09
4202262.70	0.30387 (13120321)				
609529.09	4202262.70	609544.09	4202262.70	0.27347 (13120321)	609544.09
4202262.70	0.24793 (13120321)				
609559.09	4202262.70	609574.09	4202262.70	0.22585 (13120321)	609574.09
4202262.70	0.20683 (13120321)				
609589.09	4202262.70	609604.09	4202262.70	0.19035 (11021322)	609604.09
4202262.70	0.17622 (11021322)				
609619.09	4202262.70	609634.09	4202262.70	0.16364 (11021322)	609634.09
4202262.70	0.15250 (11021322)				
609649.09	4202262.70	609664.09	4202262.70	0.14264 (11021322)	609664.09
4202262.70	0.13381 (11021322)				
609679.09	4202262.70	609694.09	4202262.70	0.12586 (11021322)	609694.09
4202262.70	0.11868 (11021322)				
609709.09	4202262.70	609724.09	4202262.70	0.11217 (11021322)	609724.09

4202262.70	0.10630	(11021322)		
609424.09	4202277.70	0.71842	(11121823)	609439.09
4202277.70	0.60766	(11121823)		
609454.09	4202277.70	0.50595	(09010806)	609469.09
4202277.70	0.43406	(13022001)		
609484.09	4202277.70	0.38276	(10122719)	609499.09
4202277.70	0.34012	(10122719)		
609514.09	4202277.70	0.30262	(10122719)	609529.09
4202277.70	0.27416	(10011408)		
609544.09	4202277.70	0.24993	(10011408)	609559.09
4202277.70	0.22845	(10011408)		
609574.09	4202277.70	0.20932	(10011408)	609589.09
4202277.70	0.19235	(10011408)		
609604.09	4202277.70	0.17724	(10011408)	609619.09
4202277.70	0.16371	(10011408)		
609634.09	4202277.70	0.15163	(10011408)	609649.09
4202277.70	0.14083	(10011408)		
609664.09	4202277.70	0.13151	(10010603)	609679.09
4202277.70	0.12331	(10010603)		
609694.09	4202277.70	0.11585	(10010603)	609709.09
4202277.70	0.10905	(10010603)		
609724.09	4202277.70	0.10310	(13120321)	609409.09
4202322.70	0.86907	(12120506)		
609424.09	4202322.70	0.76499	(09022423)	609439.09
4202322.70	0.66888	(09122922)		
609454.09	4202322.70	0.59526	(10122817)	609469.09
4202322.70	0.52397	(11123023)		
609484.09	4202322.70	0.41467	(11123023)	609499.09
4202322.70	0.32245	(12020722)		
609514.09	4202322.70	0.28838	(09012121)	609529.09
4202322.70	0.25567	(11010118)		
609544.09	4202322.70	0.22498	(12021821)	609559.09
4202322.70	0.21031	(11121823)		
609574.09	4202322.70	0.19868	(11121823)	609589.09
4202322.70	0.18540	(11121823)		
609604.09	4202322.70	0.17130	(11121823)	609619.09
4202322.70	0.15704	(11121823)		
609634.09	4202322.70	0.14474	(09010806)	609649.09
4202322.70	0.13738	(13022001)		
609664.09	4202322.70	0.12999	(13022001)	609679.09
4202322.70	0.12261	(13022001)		
609694.09	4202322.70	0.11535	(13022001)	609409.09
4202337.70	0.79029	(13020722)		
609424.09	4202337.70	0.69531	(10012518)	609439.09
4202337.70	0.62653	(09022423)		

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 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\*  
 \*\*\* AERMET - VERSION 14134 \*\*\*

10/22/21

\*\*\* 11:10:05



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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): STCK1 , VOL2

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609454.09	4202337.70	0.56125	(09122922)	609469.09
4202337.70	0.50815	(10122817)		
609484.09	4202337.70	0.45725	(11123023)	609499.09
4202337.70	0.39814	(11123023)		
609514.09	4202337.70	0.31564	(11123023)	609529.09
4202337.70	0.25485	(12020722)		
609544.09	4202337.70	0.23266	(09012121)	609559.09
4202337.70	0.21078	(11010118)		
609574.09	4202337.70	0.18985	(12021821)	609589.09
4202337.70	0.17010	(12021821)		
609604.09	4202337.70	0.16176	(11121823)	609619.09
4202337.70	0.15500	(11121823)		
609634.09	4202337.70	0.14690	(11121823)	609649.09
4202337.70	0.13798	(11121823)		
609664.09	4202337.70	0.12873	(11121823)	609679.09
4202337.70	0.11957	(09010806)		
609694.09	4202337.70	0.11178	(09010806)	609709.09
4202337.70	0.10698	(13022001)		
609724.09	4202337.70	0.10255	(13022001)	609409.09
4202352.70	0.71913	(12120608)		
609424.09	4202352.70	0.64184	(09022424)	609439.09
4202352.70	0.56935	(10012518)		
609454.09	4202352.70	0.52166	(09022423)	609469.09
4202352.70	0.47457	(09021721)		
609484.09	4202352.70	0.42734	(10122817)	609499.09
4202352.70	0.39523	(10122817)		
609514.09	4202352.70	0.36271	(11123023)	609529.09
4202352.70	0.31149	(11123023)		
609544.09	4202352.70	0.24819	(11123023)	609559.09
4202352.70	0.20783	(12020722)		
609574.09	4202352.70	0.19239	(09012121)	609589.09
4202352.70	0.17685	(11010118)		

609604.09	4202352.70	0.16183	(12021821)	609619.09
4202352.70	0.14836	(12021821)		
609634.09	4202352.70	0.13393	(12021821)	609649.09
4202352.70	0.12906	(11121823)		
609664.09	4202352.70	0.12485	(11121823)	609679.09
4202352.70	0.11975	(11121823)		
609694.09	4202352.70	0.11397	(11121823)	609709.09
4202352.70	0.10774	(11121823)		
609724.09	4202352.70	0.10153	(11121823)	609409.09
4202367.70	0.63493	(10022423)		
609424.09	4202367.70	0.56719	(12120608)	609439.09
4202367.70	0.53886	(12120506)		
609454.09	4202367.70	0.47542	(10012518)	609469.09
4202367.70	0.44169	(09022423)		
609484.09	4202367.70	0.40624	(09021721)	609499.09
4202367.70	0.37148	(09122922)		
609514.09	4202367.70	0.34994	(10122817)	609529.09
4202367.70	0.32007	(11123023)		
609544.09	4202367.70	0.29321	(11123023)	609559.09
4202367.70	0.24989	(11123023)		
609574.09	4202367.70	0.20023	(11123023)	609589.09
4202367.70	0.17345	(12020722)		
609604.09	4202367.70	0.16209	(09012121)	609619.09
4202367.70	0.15102	(09012121)		
609634.09	4202367.70	0.14004	(11010118)	609649.09
4202367.70	0.12951	(12021821)		
609664.09	4202367.70	0.11923	(12021821)	609679.09
4202367.70	0.10860	(12021821)		
609694.09	4202367.70	0.10626	(11121823)	609709.09
4202367.70	0.10360	(11121823)		
609724.09	4202367.70	0.10049	(11121823)	609394.09
4202382.70	0.58734	(09022220)		
609409.09	4202382.70	0.56020	(09022307)	609424.09
4202382.70	0.52790	(12120608)		
609439.09	4202382.70	0.47862	(13020722)	609454.09
4202382.70	0.45658	(12120506)		
609469.09	4202382.70	0.40354	(10012518)	609484.09
4202382.70	0.37966	(09022423)		
609499.09	4202382.70	0.35065	(09021721)	609514.09
4202382.70	0.32976	(09122922)		
609529.09	4202382.70	0.30648	(10122817)	609544.09
4202382.70	0.28498	(10122817)		
609559.09	4202382.70	0.26753	(11123023)	609574.09
4202382.70	0.24075	(11123023)		
609589.09	4202382.70	0.20389	(11123023)	609604.09
4202382.70	0.16448	(11123023)		
609619.09	4202382.70	0.14746	(12020722)	609634.09
4202382.70	0.13933	(12020722)		

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View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\*

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL  
 \*\*\* INCLUDING SOURCE(S): STCK1 , VOL2

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609649.09	4202382.70	0.13094	(09012121)	609664.09
4202382.70	0.12249	(11010118)		
609679.09	4202382.70	0.11429	(12021821)	609694.09
4202382.70	0.10685	(12021821)		
609709.09	4202382.70	0.09883	(12021821)	609724.09
4202382.70	0.09137	(13012303)		
609394.09	4202397.70	0.52926	(09022220)	609409.09
4202397.70	0.49763	(12021206)		
609424.09	4202397.70	0.47557	(12021724)	609439.09
4202397.70	0.44570	(12120608)		
609454.09	4202397.70	0.41112	(13020722)	609469.09
4202397.70	0.38976	(12120506)		
609484.09	4202397.70	0.34729	(10012518)	609499.09
4202397.70	0.33064	(09022423)		
609514.09	4202397.70	0.30877	(09022423)	609529.09
4202397.70	0.29299	(09122922)		
609544.09	4202397.70	0.26686	(10122817)	609559.09
4202397.70	0.25859	(10122817)		
609574.09	4202397.70	0.23857	(12121607)	609589.09
4202397.70	0.22474	(11123023)		
609604.09	4202397.70	0.20028	(11123023)	609619.09
4202397.70	0.16987	(11123023)		
609634.09	4202397.70	0.13807	(11123023)	609649.09
4202397.70	0.12766	(12020722)		
609664.09	4202397.70	0.12167	(12020722)	609679.09
4202397.70	0.11509	(09012121)		
609694.09	4202397.70	0.10825	(11010118)	609709.09
4202397.70	0.10191	(11010118)		
609724.09	4202397.70	0.09635	(12021821)	609394.09

4202412.70	0.46282	(09022220)		
609409.09	4202412.70	0.42713	(12021206)	609424.09
4202412.70	0.42942	(09022307)		
609439.09	4202412.70	0.40442	(12120608)	609454.09
4202412.70	0.36593	(12120608)		
609469.09	4202412.70	0.35922	(09022424)	609484.09
4202412.70	0.33508	(12120506)		
609499.09	4202412.70	0.30242	(10012518)	609514.09
4202412.70	0.29121	(09022423)		
609529.09	4202412.70	0.27639	(09022423)	609544.09
4202412.70	0.26075	(09021721)		
609559.09	4202412.70	0.24002	(09122922)	609574.09
4202412.70	0.23205	(10122817)		
609589.09	4202412.70	0.21660	(10122817)	609604.09
4202412.70	0.20610	(11123023)		
609619.09	4202412.70	0.19160	(11123023)	609634.09
4202412.70	0.16961	(11123023)		
609649.09	4202412.70	0.14387	(11123023)	609664.09
4202412.70	0.11768	(11123023)		
609679.09	4202412.70	0.11200	(12020722)	609694.09
4202412.70	0.10749	(12020722)		
609709.09	4202412.70	0.10213	(09012121)	609724.09
4202412.70	0.09673	(09012121)		
609394.09	4202427.70	0.40651	(10121808)	609409.09
4202427.70	0.39605	(09022220)		
609424.09	4202427.70	0.38706	(12021206)	609439.09
4202427.70	0.37370	(12021724)		
609454.09	4202427.70	0.35767	(12120608)	609469.09
4202427.70	0.32724	(13020722)		
609484.09	4202427.70	0.31888	(12120506)	609499.09
4202427.70	0.29005	(12120506)		
609514.09	4202427.70	0.26604	(10012518)	609529.09
4202427.70	0.25898	(09022423)		
609544.09	4202427.70	0.24878	(09022423)	609559.09
4202427.70	0.23510	(09021721)		
609574.09	4202427.70	0.22058	(09122922)	609589.09
4202427.70	0.20790	(10122817)		
609604.09	4202427.70	0.20066	(10122817)	609619.09
4202427.70	0.18745	(12121607)		
609634.09	4202427.70	0.17954	(11123023)	609649.09
4202427.70	0.16494	(11123023)		
609664.09	4202427.70	0.14530	(11123023)	609679.09
4202427.70	0.12338	(11123023)		
609694.09	4202427.70	0.10213	(10032505)	609709.09
4202427.70	0.09933	(12020722)		
609724.09	4202427.70	0.09587	(12020722)	609439.09
4202472.70	0.28793	(12021206)		
609454.09	4202472.70	0.28243	(09022307)	609469.09
4202472.70	0.26929	(10022423)		
609484.09	4202472.70	0.26040	(12120608)	609499.09

4202472.70 0.24191 (13020722)  
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 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/22/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
 \*\*\* 11:10:05

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): STCK1 , VOL2

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609514.09	4202472.70	0.23726	(09022424)	609529.09
4202472.70	0.22903 (12120506)			
609544.09	4202472.70	0.21172	(10012518)	609559.09
4202472.70	0.19226 (13011002)			
609574.09	4202472.70	0.19078	(09022423)	609589.09
4202472.70	0.18842 (09022423)			
609604.09	4202472.70	0.17652	(09021721)	609619.09
4202472.70	0.17079 (09122922)			
609634.09	4202472.70	0.16074	(09122922)	609649.09
4202472.70	0.15334 (10122817)			
609664.09	4202472.70	0.15111	(10122817)	609679.09
4202472.70	0.14193 (10122817)			
609694.09	4202472.70	0.13691	(11123023)	609319.09
4202487.70	0.33303 (09022320)			
609334.09	4202487.70	0.32062	(10012801)	609349.09
4202487.70	0.34147 (10120908)			
609364.09	4202487.70	0.30238	(10121108)	609394.09
4202487.70	0.28822 (10011724)			
609409.09	4202487.70	0.27229	(11122819)	609424.09
4202487.70	0.27610 (09022220)			
609439.09	4202487.70	0.25881	(12021206)	609454.09
4202487.70	0.25879 (10020523)			
609469.09	4202487.70	0.25379	(12021724)	609484.09
4202487.70	0.24518 (12120608)			
609499.09	4202487.70	0.22644	(12120608)	609514.09
4202487.70	0.22206 (13020722)			

609529.09	4202487.70	0.21651	(12120506)	609544.09
4202487.70	0.20585	(12120506)		
609559.09	4202487.70	0.19266	(10012518)	609574.09
4202487.70	0.17554	(13011002)		
609589.09	4202487.70	0.17449	(09022423)	609604.09
4202487.70	0.17332	(09022423)		
609619.09	4202487.70	0.16144	(09021721)	609634.09
4202487.70	0.15799	(09021721)		
609649.09	4202487.70	0.15087	(09122922)	609664.09
4202487.70	0.13944	(10122817)		
609679.09	4202487.70	0.14012	(10122817)	609184.09
4202502.70	0.23260	(11122707)		
609199.09	4202502.70	0.24236	(09012124)	609214.09
4202502.70	0.25550	(10010218)		
609229.09	4202502.70	0.24946	(10010218)	609244.09
4202502.70	0.25777	(11011921)		
609259.09	4202502.70	0.27942	(10121308)	609274.09
4202502.70	0.29116	(10122619)		
609289.09	4202502.70	0.29260	(10010508)	609304.09
4202502.70	0.29434	(11123003)		
609319.09	4202502.70	0.30773	(09022320)	609334.09
4202502.70	0.29800	(10012801)		
609349.09	4202502.70	0.31398	(10120908)	609364.09
4202502.70	0.27840	(10121108)		
609394.09	4202502.70	0.26754	(10011724)	609409.09
4202502.70	0.25713	(10121808)		
609424.09	4202502.70	0.25767	(09022220)	609439.09
4202502.70	0.23853	(12122101)		
609454.09	4202502.70	0.24225	(12021206)	609469.09
4202502.70	0.23798	(09022307)		
609484.09	4202502.70	0.22847	(10022423)	609499.09
4202502.70	0.22323	(12120608)		
609514.09	4202502.70	0.20045	(10021424)	609529.09
4202502.70	0.20237	(13020722)		
609544.09	4202502.70	0.19941	(12120506)	609559.09
4202502.70	0.18547	(12120506)		
609574.09	4202502.70	0.17610	(10012518)	609589.09
4202502.70	0.16110	(13011002)		
609604.09	4202502.70	0.16036	(09022423)	609619.09
4202502.70	0.16022	(09022423)		
609634.09	4202502.70	0.14897	(09022423)	609649.09
4202502.70	0.14712	(09021721)		
609664.09	4202502.70	0.14132	(09122922)	609064.09
4202517.70	0.16370	(12012006)		
609079.09	4202517.70	0.17087	(12012006)	609094.09
4202517.70	0.17551	(09122817)		
609109.09	4202517.70	0.17432	(13122319)	609124.09
4202517.70	0.18012	(13012924)		
609139.09	4202517.70	0.19834	(09021623)	609154.09
4202517.70	0.20410	(11121408)		

609169.09 4202517.70 0.21304 (12122304) 609184.09  
 4202517.70 0.22330 (11021706)  
 609199.09 4202517.70 0.23212 (09012124) 609214.09  
 4202517.70 0.23869 (10010218)

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): STCK1 , VOL2

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
609229.09	4202517.70	0.23135	(13120920)	609244.09
4202517.70	0.24861 (12122821)			
609259.09	4202517.70	0.26427	(10121308)	609274.09
4202517.70	0.26956 (09121604)			
609289.09	4202517.70	0.27355	(11123003)	609304.09
4202517.70	0.26938 (09011124)			
609319.09	4202517.70	0.28387	(09022320)	609334.09
4202517.70	0.27771 (10012801)			
609349.09	4202517.70	0.29029	(10120908)	609364.09
4202517.70	0.25746 (10121108)			
609409.09	4202517.70	0.24310	(10121808)	609424.09
4202517.70	0.23701 (09022220)			
609439.09	4202517.70	0.22416	(09022220)	609454.09
4202517.70	0.22351 (12021206)			
609469.09	4202517.70	0.22029	(10020523)	609484.09
4202517.70	0.21616 (12021724)			
609499.09	4202517.70	0.20833	(12120608)	609514.09
4202517.70	0.19913 (12120608)			
609529.09	4202517.70	0.18843	(13020722)	609544.09
4202517.70	0.18592 (11010201)			
609559.09	4202517.70	0.18349	(12120506)	609574.09
4202517.70	0.16806 (10122303)			
609589.09	4202517.70	0.16161	(10012518)	609604.09

4202517.70	0.14853	(13011002)		
609619.09	4202517.70	0.14808	(09022423)	609634.09
4202517.70	0.14864	(09022423)		
609649.09	4202517.70	0.13951	(09022423)	609079.09
4202532.70	0.16299	(09122817)		
609094.09	4202532.70	0.16190	(13122319)	609109.09
4202532.70	0.16719	(13012924)		
609124.09	4202532.70	0.18211	(09021623)	609139.09
4202532.70	0.18918	(11121408)		
609154.09	4202532.70	0.19763	(12122304)	609169.09
4202532.70	0.20352	(11021706)		
609184.09	4202532.70	0.21249	(09012124)	609199.09
4202532.70	0.22066	(10010218)		
609214.09	4202532.70	0.21211	(10010218)	609229.09
4202532.70	0.21795	(11011921)		
609244.09	4202532.70	0.23439	(12122821)	609259.09
4202532.70	0.24446	(10122619)		
609274.09	4202532.70	0.24858	(09121604)	609289.09
4202532.70	0.25735	(11123003)		
609304.09	4202532.70	0.24839	(09011124)	609319.09
4202532.70	0.26239	(11012907)		
609334.09	4202532.70	0.25942	(10012801)	609349.09
4202532.70	0.26956	(10120908)		
609364.09	4202532.70	0.23900	(10121108)	609409.09
4202532.70	0.22824	(10121808)		
609424.09	4202532.70	0.21561	(09022220)	609439.09
4202532.70	0.21633	(09022220)		
609454.09	4202532.70	0.20197	(12122101)	609469.09
4202532.70	0.20625	(12021206)		
609484.09	4202532.70	0.20401	(09022307)	609499.09
4202532.70	0.19711	(10022423)		
609514.09	4202532.70	0.19343	(12120608)	609529.09
4202532.70	0.17492	(12120608)		
609544.09	4202532.70	0.17591	(13020722)	609559.09
4202532.70	0.17213	(09022424)		
609574.09	4202532.70	0.16881	(12120506)	609589.09
4202532.70	0.15533	(10012518)		
609604.09	4202532.70	0.14886	(10012518)	609619.09
4202532.70	0.13752	(13011002)		
609094.09	4202547.70	0.15562	(13012924)	609109.09
4202547.70	0.16745	(09021623)		
609124.09	4202547.70	0.17510	(11121408)	609139.09
4202547.70	0.18239	(12122304)		
609154.09	4202547.70	0.18699	(11122707)	609169.09
4202547.70	0.19392	(11021706)		
609184.09	4202547.70	0.20058	(09012124)	609199.09
4202547.70	0.20567	(10010218)		
609214.09	4202547.70	0.19979	(13120920)	609229.09
4202547.70	0.21145	(12122821)		
609244.09	4202547.70	0.22565	(10121308)	609259.09



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4202547.70      0.23219 (10122619)
      609274.09  4202547.70      0.23238 (10010508)      609289.09
4202547.70      0.24003 (11123003)
      609304.09  4202547.70      0.23423 (09022320)      609319.09
4202547.70      0.24475 (11012907)
      609334.09  4202547.70      0.24299 (10012801)      609349.09
4202547.70      0.25101 (10120908)

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

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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): STCK1 , VOL2

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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
609364.09	4202547.70	4202547.70	0.22257	(10121108)	609409.09
4202547.70	0.21307	(10121808)			
609424.09	4202547.70	4202547.70	0.20006	(11122819)	609439.09
4202547.70	0.20546	(09022220)			
609454.09	4202547.70	4202547.70	0.19159	(12122101)	609469.09
4202547.70	0.19437	(12021206)			
609484.09	4202547.70	4202547.70	0.19028	(10020523)	609499.09
4202547.70	0.18717	(12021724)			
609514.09	4202547.70	4202547.70	0.17951	(12120608)	609529.09
4202547.70	0.17608	(12120608)			
609544.09	4202547.70	4202547.70	0.16027	(10021424)	609559.09
4202547.70	0.16311	(13020722)			
609574.09	4202547.70	4202547.70	0.15976	(09022424)	609589.09
4202547.70	0.15535	(12120506)			
609109.09	4202562.70	4202562.70	0.16282	(09021623)	609124.09
4202562.70	0.16769	(12122304)			
609139.09	4202562.70	4202562.70	0.17187	(12122304)	609154.09
4202562.70	0.18069	(11021706)			
609169.09	4202562.70	4202562.70	0.18745	(09012124)	609184.09
4202562.70	0.19349	(10010218)			

609199.09	4202562.70	0.18378	(10010218)	609214.09
4202562.70	0.18748	(11011921)		
609229.09	4202562.70	0.20367	(12122821)	609244.09
4202562.70	0.21373	(10121308)		
609259.09	4202562.70	0.21740	(09121604)	609274.09
4202562.70	0.21809	(10010508)		
609289.09	4202562.70	0.22218	(11123003)	609304.09
4202562.70	0.22358	(09022320)		
609319.09	4202562.70	0.22837	(11012907)	609334.09
4202562.70	0.22810	(10012801)		
609349.09	4202562.70	0.23443	(10120908)	609364.09
4202562.70	0.20788	(10121108)		
609409.09	4202562.70	0.19807	(10121808)	609424.09
4202562.70	0.18871	(10121808)		
609439.09	4202562.70	0.19263	(09022220)	609454.09
4202562.70	0.17994	(09022220)		
609469.09	4202562.70	0.17906	(12021206)	609484.09
4202562.70	0.17764	(12021206)		
609499.09	4202562.70	0.17754	(09022307)	609514.09
4202562.70	0.17242	(10022423)		
609529.09	4202562.70	0.16927	(12120608)	609544.09
4202562.70	0.15784	(12120608)		
609559.09	4202562.70	0.15230	(13020722)	609574.09
4202562.70	0.15121	(11010201)		
609124.09	4202577.70	0.16195	(12122304)	609139.09
4202577.70	0.16648	(11021706)		
609154.09	4202577.70	0.17198	(09012124)	609169.09
4202577.70	0.17727	(10010218)		
609184.09	4202577.70	0.17989	(10010218)	609199.09
4202577.70	0.17528	(13120920)		
609214.09	4202577.70	0.18294	(11011921)	609229.09
4202577.70	0.19376	(10121308)		
609244.09	4202577.70	0.20024	(10122619)	609259.09
4202577.70	0.20412	(09121604)		
609274.09	4202577.70	0.20691	(11123003)	609289.09
4202577.70	0.20435	(11123003)		
609304.09	4202577.70	0.21270	(09022320)	609319.09
4202577.70	0.21313	(11012907)		
609334.09	4202577.70	0.21468	(10012801)	609349.09
4202577.70	0.21988	(10120908)		
609364.09	4202577.70	0.19526	(10120908)	609409.09
4202577.70	0.18575	(10011724)		
609424.09	4202577.70	0.18162	(10121808)	609439.09
4202577.70	0.17875	(09022220)		
609454.09	4202577.70	0.17543	(09022220)	609469.09
4202577.70	0.16625	(12122101)		
609484.09	4202577.70	0.17023	(12021206)	609499.09
4202577.70	0.16732	(09022307)		
609514.09	4202577.70	0.16425	(12021724)	609529.09
4202577.70	0.15652	(12120608)		

609544.09	4202577.70	0.15663	(12120608)	609139.09
4202592.70	0.16017	(11021706)		
609154.09	4202592.70	0.16596	(09012124)	609169.09
4202592.70	0.17093	(10010218)		
609184.09	4202592.70	0.16171	(13120920)	609199.09
4202592.70	0.16331	(11011921)		
609214.09	4202592.70	0.17831	(12122821)	609229.09
4202592.70	0.18761	(10121308)		
609244.09	4202592.70	0.19168	(10122619)	609259.09
4202592.70	0.19002	(10010508)		

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): STCK1 , VOL2

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609274.09	4202592.70	0.19764	(11123003)	609289.09
4202592.70	0.19189	(09011124)		
609304.09	4202592.70	0.20182	(09022320)	609319.09
4202592.70	0.19898	(11012907)		
609334.09	4202592.70	0.20246	(10012801)	609349.09
4202592.70	0.20687	(10120908)		
609364.09	4202592.70	0.18422	(10120908)	609409.09
4202592.70	0.17594	(10011724)		
609424.09	4202592.70	0.17371	(10121808)	609439.09
4202592.70	0.16472	(11122819)		
609454.09	4202592.70	0.16870	(09022220)	609469.09
4202592.70	0.15839	(12122101)		
609484.09	4202592.70	0.15969	(12021206)	609499.09
4202592.70	0.15712	(10020523)		
609514.09	4202592.70	0.15637	(09022307)	609529.09
4202592.70	0.15255	(10022423)		
609169.09	4202607.70	0.15881	(10010218)	609184.09

4202607.70	0.15542	(13120920)		
609199.09	4202607.70	0.16101	(11011921)	609214.09
4202607.70	0.17007	(12122821)		
609229.09	4202607.70	0.17785	(10121308)	609244.09
4202607.70	0.18059	(09121604)		
609259.09	4202607.70	0.18146	(10010508)	609274.09
4202607.70	0.18719	(11123003)		
609289.09	4202607.70	0.18050	(09011124)	609304.09
4202607.70	0.19112	(09022320)		
609319.09	4202607.70	0.18589	(11012907)	609334.09
4202607.70	0.19127	(10012801)		
609349.09	4202607.70	0.19512	(10120908)	609364.09
4202607.70	0.17429	(10120908)		
609409.09	4202607.70	0.16641	(10011724)	609424.09
4202607.70	0.16534	(10121808)		
609439.09	4202607.70	0.15554	(11122819)	609454.09
4202607.70	0.16039	(09022220)		
609469.09	4202607.70	0.14908	(09020906)	609484.09
4202607.70	0.14715	(12021206)		
609499.09	4202607.70	0.15016	(12021206)	609199.09
4202622.70	0.15718	(12122821)		
609214.09	4202622.70	0.16474	(10121308)	609229.09
4202622.70	0.16820	(10122619)		
609244.09	4202622.70	0.17157	(09121604)	609259.09
4202622.70	0.17149	(10010508)		
609274.09	4202622.70	0.17605	(11123003)	609289.09
4202622.70	0.16958	(12122303)		
609304.09	4202622.70	0.18071	(09022320)	609319.09
4202622.70	0.17378	(11012907)		
609334.09	4202622.70	0.18101	(10012801)	609349.09
4202622.70	0.18446	(10120908)		
609364.09	4202622.70	0.16525	(10120908)	609409.09
4202622.70	0.15712	(10011724)		
609424.09	4202622.70	0.15672	(10121808)	609439.09
4202622.70	0.14596	(11122819)		
609454.09	4202622.70	0.15106	(09022220)	609469.09
4202622.70	0.14587	(09022220)		

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

\*\*\* THE SUMMARY OF MAXIMUM ANNUAL RESULTS

AVERAGED OVER 5 YEARS \*\*\*

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

\*\*

GROUP ID ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	AVERAGE CONC GRID-ID	RECEPTOR (XR, YR,
ALL	1ST HIGHEST VALUE IS	0.07724 AT (	609424.09, 4202247.70,
40.00,	40.00, 0.00) DC		
	2ND HIGHEST VALUE IS	0.07371 AT (	609424.09, 4202232.70,
40.00,	40.00, 0.00) DC		
	3RD HIGHEST VALUE IS	0.07285 AT (	609424.09, 4202262.70,
40.00,	40.00, 0.00) DC		
	4TH HIGHEST VALUE IS	0.06383 AT (	609424.09, 4202277.70,
40.00,	40.00, 0.00) DC		
	5TH HIGHEST VALUE IS	0.05706 AT (	609439.09, 4202247.70,
40.00,	40.00, 0.00) DC		
	6TH HIGHEST VALUE IS	0.05610 AT (	609439.09, 4202232.70,
40.00,	40.00, 0.00) DC		
	7TH HIGHEST VALUE IS	0.05523 AT (	609409.09, 4202202.70,
40.02,	40.02, 0.00) DC		
	8TH HIGHEST VALUE IS	0.05368 AT (	609439.09, 4202262.70,
40.00,	40.00, 0.00) DC		
	9TH HIGHEST VALUE IS	0.05081 AT (	609274.09, 4202232.70,
41.00,	41.00, 0.00) DC		
	10TH HIGHEST VALUE IS	0.04982 AT (	609424.09, 4202202.70,
40.03,	40.03, 0.00) DC		

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

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/22/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
 \*\*\* 11:10:05

PAGE 67

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

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

RESULTS \*\*\*

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

\*\*

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

ALL HIGH 1ST HIGH VALUE IS 0.86907 ON 12120506: AT ( 609409.09,  
4202322.70, 40.00, 40.00, 0.00) DC

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

\*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
View\5200LoneTree\_OnsiteFuel\5200LoneTree\_OnsiteFuel \*\*\* 10/22/21  
\*\*\* AERMET - VERSION 14134 \*\*\*  
\*\*\* 11:10:05

PAGE 68

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

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

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

A Total of 0 Fatal Error Message(s)  
A Total of 1 Warning Message(s)  
A Total of 15235 Informational Message(s)  
  
A Total of 43872 Hours Were Processed  
  
A Total of 13448 Calm Hours Identified  
  
A Total of 1787 Missing Hours Identified ( 4.07 Percent)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
MX W481 43873 MAIN: Data Remaining After End of Year. Number of Hours=  
48

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

```

**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.0.0
** Lakes Environmental Software Inc.
** Date: 10/25/2021
** File: C:\Lakes\AERMOD
View\5200LoneTree_TruckOperation\5200LoneTree_TruckOperation.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Lakes\AERMOD View\5200LoneTree_TruckOperation\5200LoneTree_TruckO
  MODELOPT DFAULT CONC
  AVERTIME 1 ANNUAL
  URBANOPT 111535 Antioch
  POLLUTID PM_2.5
  RUNORNOT RUN
  ERRORFIL 5200LoneTree_TruckOperation.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = VOL1
** DESCRSRC Lone Tree Way
** PREFIX
** Length of Side = 25.00
** Configuration = Adjacent
** Emission Rate = 9.55E-06
** Vertical Dimension = 10.00
** SZINIT = 4.65
** Nodes = 2
** 608956.300, 4202295.080, 41.95, 3.10, 11.63
** 609731.300, 4202300.550, 40.00, 3.10, 11.63
** -----

```

LOCATION	L0000001	VOLUME	608968.800	4202295.168	41.83
LOCATION	L0000002	VOLUME	608993.799	4202295.345	41.00
LOCATION	L0000003	VOLUME	609018.798	4202295.521	41.00
LOCATION	L0000004	VOLUME	609043.798	4202295.698	41.00
LOCATION	L0000005	VOLUME	609068.797	4202295.874	40.50
LOCATION	L0000006	VOLUME	609093.797	4202296.050	40.01
LOCATION	L0000007	VOLUME	609118.796	4202296.227	40.00
LOCATION	L0000008	VOLUME	609143.795	4202296.403	40.00
LOCATION	L0000009	VOLUME	609168.795	4202296.580	40.00
LOCATION	L0000010	VOLUME	609193.794	4202296.756	40.00
LOCATION	L0000011	VOLUME	609218.793	4202296.933	40.48
LOCATION	L0000012	VOLUME	609243.793	4202297.109	40.97
LOCATION	L0000013	VOLUME	609268.792	4202297.286	40.99
LOCATION	L0000014	VOLUME	609293.792	4202297.462	40.94
LOCATION	L0000015	VOLUME	609318.791	4202297.638	40.16
LOCATION	L0000016	VOLUME	609343.790	4202297.815	40.00
LOCATION	L0000017	VOLUME	609368.790	4202297.991	40.00
LOCATION	L0000018	VOLUME	609393.789	4202298.168	40.00
LOCATION	L0000019	VOLUME	609418.788	4202298.344	40.00
LOCATION	L0000020	VOLUME	609443.788	4202298.521	40.00
LOCATION	L0000021	VOLUME	609468.787	4202298.697	40.00
LOCATION	L0000022	VOLUME	609493.787	4202298.874	40.00
LOCATION	L0000023	VOLUME	609518.786	4202299.050	40.00
LOCATION	L0000024	VOLUME	609543.785	4202299.227	40.00
LOCATION	L0000025	VOLUME	609568.785	4202299.403	40.00
LOCATION	L0000026	VOLUME	609593.784	4202299.579	40.00
LOCATION	L0000027	VOLUME	609618.783	4202299.756	40.00
LOCATION	L0000028	VOLUME	609643.783	4202299.932	40.00
LOCATION	L0000029	VOLUME	609668.782	4202300.109	40.00
LOCATION	L0000030	VOLUME	609693.782	4202300.285	40.00
LOCATION	L0000031	VOLUME	609718.781	4202300.462	40.00

\*\* End of LINE VOLUME Source ID = VOL1

LOCATION	PAREA1	AREAPOLY	609291.519	4202284.834	41.000
----------	--------	----------	------------	-------------	--------

\*\* Source Parameters \*\*

\*\* LINE VOLUME Source ID = VOL1

SRCPARAM	L0000001	0.0000003081	3.10	11.63	4.65
SRCPARAM	L0000002	0.0000003081	3.10	11.63	4.65
SRCPARAM	L0000003	0.0000003081	3.10	11.63	4.65
SRCPARAM	L0000004	0.0000003081	3.10	11.63	4.65
SRCPARAM	L0000005	0.0000003081	3.10	11.63	4.65
SRCPARAM	L0000006	0.0000003081	3.10	11.63	4.65
SRCPARAM	L0000007	0.0000003081	3.10	11.63	4.65
SRCPARAM	L0000008	0.0000003081	3.10	11.63	4.65
SRCPARAM	L0000009	0.0000003081	3.10	11.63	4.65
SRCPARAM	L0000010	0.0000003081	3.10	11.63	4.65
SRCPARAM	L0000011	0.0000003081	3.10	11.63	4.65
SRCPARAM	L0000012	0.0000003081	3.10	11.63	4.65
SRCPARAM	L0000013	0.0000003081	3.10	11.63	4.65
SRCPARAM	L0000014	0.0000003081	3.10	11.63	4.65
SRCPARAM	L0000015	0.0000003081	3.10	11.63	4.65



SRCPARAM L0000016	0.0000003081	3.10	11.63	4.65
SRCPARAM L0000017	0.0000003081	3.10	11.63	4.65
SRCPARAM L0000018	0.0000003081	3.10	11.63	4.65
SRCPARAM L0000019	0.0000003081	3.10	11.63	4.65
SRCPARAM L0000020	0.0000003081	3.10	11.63	4.65
SRCPARAM L0000021	0.0000003081	3.10	11.63	4.65
SRCPARAM L0000022	0.0000003081	3.10	11.63	4.65
SRCPARAM L0000023	0.0000003081	3.10	11.63	4.65
SRCPARAM L0000024	0.0000003081	3.10	11.63	4.65
SRCPARAM L0000025	0.0000003081	3.10	11.63	4.65
SRCPARAM L0000026	0.0000003081	3.10	11.63	4.65
SRCPARAM L0000027	0.0000003081	3.10	11.63	4.65
SRCPARAM L0000028	0.0000003081	3.10	11.63	4.65
SRCPARAM L0000029	0.0000003081	3.10	11.63	4.65
SRCPARAM L0000030	0.0000003081	3.10	11.63	4.65
SRCPARAM L0000031	0.0000003081	3.10	11.63	4.65

```

** -----
SRCPARAM PAREA1      2.3865E-09      3.100      4
AREAVERT PAREA1     609291.519 4202284.834 609290.887 4202193.865
AREAVERT PAREA1     609384.067 4202191.339 609382.488 4202285.782
URBANSRC ALL
SRCGROUP ALL

```

SO FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Receptor Pathway

\*\*\*\*\*

\*\*

\*\*

RE STARTING

INCLUDED 5200LoneTree\_TruckOperation.rou

RE FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Meteorology Pathway

\*\*\*\*\*

\*\*

\*\*

ME STARTING

SURFFILE "C:\Users\kheck\Desktop\Met Data\Livermore\_2009-2014\724927.SFC"

PROFFILE "C:\Users\kheck\Desktop\Met Data\Livermore\_2009-2014\724927.PFL"

SURFDATA 23285 2009

UAIRDATA 23230 2009 OAKLAND/WSO\_AP

PROFBASE 125.0 METERS

ME FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Output Pathway

\*\*\*\*\*

\*\*

\*\*

OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 1 1ST

\*\* Auto-Generated Plotfiles  
PLOTFILE 1 ALL 1ST 5200LONETREE\_TRUCKOPERATION.AD\01H1GALL.PLT 31  
PLOTFILE ANNUAL ALL 5200LONETREE\_TRUCKOPERATION.AD\AN00GALL.PLT 32  
SUMMFILE 5200LoneTree\_TruckOperation.sum

OU FINISHED

\*\*

\*\*\*\*\*

\*\* Project Parameters

\*\*\*\*\*

\*\* PROJCTN CoordinateSystemUTM  
\*\* DESCPTN UTM: Universal Transverse Mercator  
\*\* DATUM World Geodetic System 1984  
\*\* DTMRGN Global Definition  
\*\* UNITS m  
\*\* ZONE 10  
\*\* ZONEINX 0

\*\*

```

**
*****
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.0.0
** Lakes Environmental Software Inc.
** Date: 10/25/2021
** File: C:\Lakes\AERMOD
View\5200LoneTree_TruckOperation\5200LoneTree_TruckOperation.ADI
**
*****
**
**
*****
** AERMOD Control Pathway
*****
**
**
CO STARTING
  TITLEONE C:\Lakes\AERMOD View\5200LoneTree_TruckOperation\5200LoneTree_TruckO
  MODELOPT DFAULT CONC
  AVERTIME 1 ANNUAL
  URBANOPT 111535 Antioch
  POLLUTID PM_2.5
  RUNORNOT RUN
  ERRORFIL 5200LoneTree_TruckOperation.err
CO FINISHED
**
*****
** AERMOD Source Pathway
*****
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** -----
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = VOL1
** DESCRSRC Lone Tree Way
** PREFIX
** Length of Side = 25.00
** Configuration = Adjacent
** Emission Rate = 9.55E-06
** Vertical Dimension = 10.00
** SZINIT = 4.65
** Nodes = 2
** 608956.300, 4202295.080, 41.95, 3.10, 11.63
** 609731.300, 4202300.550, 40.00, 3.10, 11.63
** -----

```

LOCATION	L0000001	VOLUME	608968.800	4202295.168	41.83
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LOCATION	L0000003	VOLUME	609018.798	4202295.521	41.00
LOCATION	L0000004	VOLUME	609043.798	4202295.698	41.00
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LOCATION	L0000006	VOLUME	609093.797	4202296.050	40.01
LOCATION	L0000007	VOLUME	609118.796	4202296.227	40.00
LOCATION	L0000008	VOLUME	609143.795	4202296.403	40.00
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LOCATION	L0000026	VOLUME	609593.784	4202299.579	40.00
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LOCATION	L0000030	VOLUME	609693.782	4202300.285	40.00
LOCATION	L0000031	VOLUME	609718.781	4202300.462	40.00

\*\* End of LINE VOLUME Source ID = VOL1

LOCATION	PAREA1	AREAPOLY	609291.519	4202284.834	41.000
----------	--------	----------	------------	-------------	--------

\*\* Source Parameters \*\*

\*\* LINE VOLUME Source ID = VOL1

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SRCPARAM	L0000002	0.0000003081	3.10	11.63	4.65
SRCPARAM	L0000003	0.0000003081	3.10	11.63	4.65
SRCPARAM	L0000004	0.0000003081	3.10	11.63	4.65
SRCPARAM	L0000005	0.0000003081	3.10	11.63	4.65
SRCPARAM	L0000006	0.0000003081	3.10	11.63	4.65
SRCPARAM	L0000007	0.0000003081	3.10	11.63	4.65
SRCPARAM	L0000008	0.0000003081	3.10	11.63	4.65
SRCPARAM	L0000009	0.0000003081	3.10	11.63	4.65
SRCPARAM	L0000010	0.0000003081	3.10	11.63	4.65
SRCPARAM	L0000011	0.0000003081	3.10	11.63	4.65
SRCPARAM	L0000012	0.0000003081	3.10	11.63	4.65
SRCPARAM	L0000013	0.0000003081	3.10	11.63	4.65
SRCPARAM	L0000014	0.0000003081	3.10	11.63	4.65
SRCPARAM	L0000015	0.0000003081	3.10	11.63	4.65

SRCPARAM L0000016	0.0000003081	3.10	11.63	4.65
SRCPARAM L0000017	0.0000003081	3.10	11.63	4.65
SRCPARAM L0000018	0.0000003081	3.10	11.63	4.65
SRCPARAM L0000019	0.0000003081	3.10	11.63	4.65
SRCPARAM L0000020	0.0000003081	3.10	11.63	4.65
SRCPARAM L0000021	0.0000003081	3.10	11.63	4.65
SRCPARAM L0000022	0.0000003081	3.10	11.63	4.65
SRCPARAM L0000023	0.0000003081	3.10	11.63	4.65
SRCPARAM L0000024	0.0000003081	3.10	11.63	4.65
SRCPARAM L0000025	0.0000003081	3.10	11.63	4.65
SRCPARAM L0000026	0.0000003081	3.10	11.63	4.65
SRCPARAM L0000027	0.0000003081	3.10	11.63	4.65
SRCPARAM L0000028	0.0000003081	3.10	11.63	4.65
SRCPARAM L0000029	0.0000003081	3.10	11.63	4.65
SRCPARAM L0000030	0.0000003081	3.10	11.63	4.65
SRCPARAM L0000031	0.0000003081	3.10	11.63	4.65

```

** -----
SRCPARAM PAREA1      2.3865E-09      3.100      4
AREAVERT PAREA1     609291.519 4202284.834 609290.887 4202193.865
AREAVERT PAREA1     609384.067 4202191.339 609382.488 4202285.782
URBANSRC ALL
SRCGROUP ALL

```

SO FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Receptor Pathway

\*\*\*\*\*

\*\*

\*\*

RE STARTING

INCLUDED 5200LoneTree\_TruckOperation.rou

RE FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Meteorology Pathway

\*\*\*\*\*

\*\*

\*\*

ME STARTING

SURFFILE "C:\Users\kheck\Desktop\Met Data\Livermore\_2009-2014\724927.SFC"

PROFFILE "C:\Users\kheck\Desktop\Met Data\Livermore\_2009-2014\724927.PFL"

SURFDATA 23285 2009

UAIRDATA 23230 2009 OAKLAND/WSO\_AP

PROFBASE 125.0 METERS

ME FINISHED

\*\*

\*\*\*\*\*

\*\* AERMOD Output Pathway

\*\*\*\*\*

\*\*

\*\*

OU STARTING  
RECTABLE ALLAVE 1ST  
RECTABLE 1 1ST

\*\* Auto-Generated Plotfiles  
PLOTFILE 1 ALL 1ST 5200LONETREE\_TRUCKOPERATION.AD\01H1GALL.PLT 31  
PLOTFILE ANNUAL ALL 5200LONETREE\_TRUCKOPERATION.AD\AN00GALL.PLT 32  
SUMMFILE 5200LoneTree\_TruckOperation.sum

OU FINISHED

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

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Lakes\AERMOD  
View\5200LoneTree\_TruckOperation\5200LoneTree\_TruckO \*\*\* 10/25/21  
\*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
\*\*\* 11:05:39

PAGE 1  
\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN

\*\*\* MODEL SETUP OPTIONS SUMMARY

\*\*\*

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

-- DEPOSITION LOGIC --

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

\*\*Model Uses URBAN Dispersion Algorithm for the SBL for 32 Source(s),  
for Total of 1 Urban Area(s):  
Urban Population = 111535.0 ; Urban Roughness Length = 1.000 m

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

\*\*Other Options Specified:  
CCVR\_Sub - Meteorological data includes CCVR substitutions  
TEMP\_Sub - Meteorological data includes TEMP substitutions

\*\*Model Assumes No FLAGPOLE Receptor Heights.

\*\*The User Specified a Pollutant Type of: PM<sub>2.5</sub>

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

\*\*This Run Includes: 32 Source(s); 1 Source Group(s); and 1576  
Receptor(s)

with: 0 POINT(s), including  
0 POINTCAP(s) and 0 POINTHOR(s)  
and: 31 VOLUME source(s)  
and: 1 AREA type source(s)  
and: 0 LINE source(s)  
and: 0 RLINE/RLINEXT source(s)  
and: 0 OPENPIT source(s)  
and: 0 BUOYANT LINE source(s) with a total of 0 line(s)

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

\*\*The AERMET Input Meteorological Data Version Date: 14134

\*\*Output Options Selected:

Model Outputs Tables of ANNUAL Averages by Receptor

Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE  
Keyword)

Model Outputs External File(s) of High Values for Plotting (PLOTFILE  
Keyword)

Model Outputs Separate Summary File of High Ranked Values (SUMMFILE  
Keyword)

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

Hours

b for Both Calm

and Missing Hours

\*\*Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 125.00 ; Decay  
Coef. = 0.000 ; Rot. Angle = 0.0

Emission Units = GRAMS/SEC ;

Emission Rate Unit Factor = 0.10000E+07

Output Units = MICROGRAMS/M\*\*3

\*\*Approximate Storage Requirements of Model = 3.7 MB of RAM.

\*\*Input Runstream File: aermod.inp

\*\*Output Print File: aermod.out

\*\*Detailed Error/Message File: 5200LoneTree\_TruckOperation.err

\*\*File for Summary of Results: 5200LoneTree\_TruckOperation.sum

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\* C:\Lakes\AERMOD  
View\5200LoneTree\_TruckOperation\5200LoneTree\_TruckO \*\*\* 10/25/21  
\*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
\*\*\* 11:05:39

PAGE 2

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

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

INIT.	URBAN	NUMBER	EMISSION	RATE		BASE	RELEASE	INIT.	
SZ	SOURCE	EMISSION	RATE		X	Y	ELEV.	HEIGHT	SY
ID	SCALAR	VARY			(METERS)	(METERS)	(METERS)	(METERS)	(METERS)
(METERS)	CATS.	BY							
L000001	0	0.30810E-06	608968.8	4202295.2	41.8	3.10	11.63		
4.65	YES								
L000002	0	0.30810E-06	608993.8	4202295.3	41.0	3.10	11.63		
4.65	YES								
L000003	0	0.30810E-06	609018.8	4202295.5	41.0	3.10	11.63		
4.65	YES								
L000004	0	0.30810E-06	609043.8	4202295.7	41.0	3.10	11.63		
4.65	YES								
L000005	0	0.30810E-06	609068.8	4202295.9	40.5	3.10	11.63		
4.65	YES								
L000006	0	0.30810E-06	609093.8	4202296.0	40.0	3.10	11.63		
4.65	YES								
L000007	0	0.30810E-06	609118.8	4202296.2	40.0	3.10	11.63		
4.65	YES								
L000008	0	0.30810E-06	609143.8	4202296.4	40.0	3.10	11.63		
4.65	YES								
L000009	0	0.30810E-06	609168.8	4202296.6	40.0	3.10	11.63		
4.65	YES								
L000010	0	0.30810E-06	609193.8	4202296.8	40.0	3.10	11.63		
4.65	YES								
L000011	0	0.30810E-06	609218.8	4202296.9	40.5	3.10	11.63		
4.65	YES								
L000012	0	0.30810E-06	609243.8	4202297.1	41.0	3.10	11.63		



4.65	YES							
L0000013		0	0.30810E-06	609268.8	4202297.3	41.0	3.10	11.63
4.65	YES							
L0000014		0	0.30810E-06	609293.8	4202297.5	40.9	3.10	11.63
4.65	YES							
L0000015		0	0.30810E-06	609318.8	4202297.6	40.2	3.10	11.63
4.65	YES							
L0000016		0	0.30810E-06	609343.8	4202297.8	40.0	3.10	11.63
4.65	YES							
L0000017		0	0.30810E-06	609368.8	4202298.0	40.0	3.10	11.63
4.65	YES							
L0000018		0	0.30810E-06	609393.8	4202298.2	40.0	3.10	11.63
4.65	YES							
L0000019		0	0.30810E-06	609418.8	4202298.3	40.0	3.10	11.63
4.65	YES							
L0000020		0	0.30810E-06	609443.8	4202298.5	40.0	3.10	11.63
4.65	YES							
L0000021		0	0.30810E-06	609468.8	4202298.7	40.0	3.10	11.63
4.65	YES							
L0000022		0	0.30810E-06	609493.8	4202298.9	40.0	3.10	11.63
4.65	YES							
L0000023		0	0.30810E-06	609518.8	4202299.0	40.0	3.10	11.63
4.65	YES							
L0000024		0	0.30810E-06	609543.8	4202299.2	40.0	3.10	11.63
4.65	YES							
L0000025		0	0.30810E-06	609568.8	4202299.4	40.0	3.10	11.63
4.65	YES							
L0000026		0	0.30810E-06	609593.8	4202299.6	40.0	3.10	11.63
4.65	YES							
L0000027		0	0.30810E-06	609618.8	4202299.8	40.0	3.10	11.63
4.65	YES							
L0000028		0	0.30810E-06	609643.8	4202299.9	40.0	3.10	11.63
4.65	YES							
L0000029		0	0.30810E-06	609668.8	4202300.1	40.0	3.10	11.63
4.65	YES							
L0000030		0	0.30810E-06	609693.8	4202300.3	40.0	3.10	11.63
4.65	YES							
L0000031		0	0.30810E-06	609718.8	4202300.5	40.0	3.10	11.63

▲ \*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_TruckOperation\5200LoneTree\_TruckO \*\*\*      10/25/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*      \*\*\*  
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\*\*\* MODELOPTs:      RegDEFAULT      CONC      ELEV      URBAN

\*\*\* AREAPOLY SOURCE DATA \*\*\*

INIT. SOURCE SZ ID (METERS)	URBAN SOURCE	NUMBER EMISSION RATE PART. SCALAR CATS. BY	EMISSION RATE (GRAMS/SEC VARY /METER**2)	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.
-----------------------------	--------------	--	--	-----------------------------	------------	---------------------	-------------------------	------------------

PAREA1 0.00	YES	0	0.23865E-08	609291.5	4202284.8	41.0	3.10	4
----------------	-----	---	-------------	----------	-----------	------	------	---

\*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_TruckOperation\5200LoneTree\_TruckO \*\*\* 10/25/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* SOURCE IDs DEFINING SOURCE GROUPS

\*\*\*

SRCGROUP ID

SOURCE IDs

ALL	L0000001	, L0000002	, L0000003	, L0000004	, L0000005	,
L0000006	, L0000007	, L0000008	,			
L0000014	, L0000009	, L0000010	, L0000011	, L0000012	, L0000013	,
	, L0000015	, L0000016	,			
L0000022	, L0000017	, L0000018	, L0000019	, L0000020	, L0000021	,
	, L0000023	, L0000024	,			
L0000030	, L0000025	, L0000026	, L0000027	, L0000028	, L0000029	,
	, L0000031	, PAREA1	,			

\*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_TruckOperation\5200LoneTree\_TruckO \*\*\* 10/25/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

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

\*\*\*

URBAN ID	URBAN POP	SOURCE IDs					
-----	-----	-----					
L0000005 L0000008	111535. , L0000006 ,	L0000001 , L0000007	, L0000002 ,	, L0000003	, L0000004	,	
L0000014	L0000009 , L0000015	, L0000010 , L0000016	, L0000011 ,	, L0000012	, L0000013	,	
L0000022	L0000017 , L0000023	, L0000018 , L0000024	, L0000019 ,	, L0000020	, L0000021	,	
L0000030	L0000025 , L0000031	, L0000026 , PAREA1	, L0000027 ,	, L0000028	, L0000029	,	
▲ *** AERMOD - VERSION 21112 *** C:\Lakes\AERMOD View\5200LoneTree_TruckOperation\5200LoneTree_TruckO *** 10/25/21 *** AERMET - VERSION 14134 *** *** *** 11:05:39							

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

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

( 609304.1, 4201857.7, 44.0, 66.0, 0.0);	( 609319.1, 4201857.7, 43.7, 66.0, 0.0);
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( 609364.1, 4201857.7, 44.6, 44.6, 0.0);	( 609379.1, 4201857.7, 44.6, 44.6, 0.0);
( 609394.1, 4201857.7, 44.6, 44.6, 0.0);	( 609259.1, 4201872.7, 43.2, 66.0, 0.0);
( 609304.1, 4201872.7, 43.2, 66.0, 0.0);	( 609319.1, 4201872.7, 43.1, 66.0, 0.0);
( 609334.1, 4201872.7, 43.4, 66.0, 0.0);	( 609349.1, 4201872.7, 43.9, 43.9, 0.0);
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( 609394.1, 4201872.7, 44.1, 44.1, 0.0);	( 609409.1, 4201872.7, 44.1, 44.1, 0.0);
( 609424.1, 4201872.7, 44.1, 44.1, 0.0);	( 609439.1, 4201872.7, 44.1, 44.1, 0.0);
( 609454.1, 4201872.7, 44.1, 44.1, 0.0);	( 609199.1, 4201887.7, 42.1, 76.0, 0.0);
( 609214.1, 4201887.7, 42.2, 66.0, 0.0);	( 609229.1, 4201887.7, 42.2, 66.0, 0.0);

( 609244.1, 4201887.7, 42.3, 66.0, 0.0); ( 609259.1,  
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^ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_TruckOperation\5200LoneTree_TruckO *** 10/25/21
*** AERMET - VERSION 14134 *** ***
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

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

```

( 609124.1, 4201932.7, 39.1, 77.0, 0.0); ( 609139.1,
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^ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_TruckOperation\5200LoneTree_Truck0 *** 10/25/21
*** AERMET - VERSION 14134 *** ***
*** 11:05:39

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

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

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^ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_TruckOperation\5200LoneTree_TruckO *** 10/25/21

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

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

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^ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_TruckOperation\5200LoneTree_TruckO *** 10/25/21
*** AERMET - VERSION 14134 *** ***
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

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

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^ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_TruckOperation\5200LoneTree_TruckO *** 10/25/21
*** AERMET - VERSION 14134 *** ***
*** 11:05:39

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

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

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^ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_TruckOperation\5200LoneTree_TruckO *** 10/25/21
*** AERMET - VERSION 14134 *** ***
*** 11:05:39

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

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

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^ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_TruckOperation\5200LoneTree_TruckO *** 10/25/21
*** AERMET - VERSION 14134 *** ***
*** 11:05:39

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

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

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^ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_TruckOperation\5200LoneTree_TruckO *** 10/25/21
*** AERMET - VERSION 14134 *** ***
*** 11:05:39

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

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

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^ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_TruckOperation\5200LoneTree_TruckO *** 10/25/21
*** AERMET - VERSION 14134 *** ***
*** 11:05:39

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

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

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^ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_TruckOperation\5200LoneTree_TruckO *** 10/25/21
*** AERMET - VERSION 14134 *** ***
*** 11:05:39

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PAGE 16

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

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

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^ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_TruckOperation\5200LoneTree_Truck0 *** 10/25/21
*** AERMET - VERSION 14134 *** ***
*** 11:05:39

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

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

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( 609439.1, 4202277.7, 40.0, 40.0, 0.0); ( 609454.1,
4202277.7, 40.0, 40.0, 0.0);

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^ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_TruckOperation\5200LoneTree_Truck0 *** 10/25/21
*** AERMET - VERSION 14134 *** ***
*** 11:05:39

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

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

(METERS)

( 609469.1, 4202277.7, 40.0, 40.0, 0.0); ( 609484.1, 4202277.7, 40.0, 40.0, 0.0);  
( 609499.1, 4202277.7, 40.0, 40.0, 0.0); ( 609514.1, 4202277.7, 40.0, 40.0, 0.0);  
( 609529.1, 4202277.7, 40.0, 40.0, 0.0); ( 609544.1, 4202277.7, 40.2, 40.2, 0.0);  
( 609559.1, 4202277.7, 40.5, 40.5, 0.0); ( 609574.1, 4202277.7, 40.6, 40.6, 0.0);  
( 609589.1, 4202277.7, 40.6, 40.6, 0.0); ( 609604.1, 4202277.7, 40.4, 40.4, 0.0);  
( 609619.1, 4202277.7, 40.1, 40.1, 0.0); ( 609634.1, 4202277.7, 40.0, 40.0, 0.0);  
( 609649.1, 4202277.7, 40.0, 40.0, 0.0); ( 609664.1, 4202277.7, 40.0, 40.0, 0.0);  
( 609679.1, 4202277.7, 40.0, 40.0, 0.0); ( 609694.1, 4202277.7, 40.0, 40.0, 0.0);  
( 609709.1, 4202277.7, 40.0, 40.0, 0.0); ( 609724.1, 4202277.7, 40.4, 40.4, 0.0);  
( 609409.1, 4202322.7, 40.0, 40.0, 0.0); ( 609424.1, 4202322.7, 40.0, 40.0, 0.0);  
( 609439.1, 4202322.7, 40.0, 40.0, 0.0); ( 609454.1, 4202322.7, 40.0, 40.0, 0.0);  
( 609469.1, 4202322.7, 40.0, 40.0, 0.0); ( 609484.1, 4202322.7, 40.0, 40.0, 0.0);  
( 609499.1, 4202322.7, 40.0, 40.0, 0.0); ( 609514.1, 4202322.7, 40.0, 40.0, 0.0);  
( 609529.1, 4202322.7, 40.0, 40.0, 0.0); ( 609544.1, 4202322.7, 40.0, 40.0, 0.0);  
( 609559.1, 4202322.7, 40.0, 40.0, 0.0); ( 609574.1, 4202322.7, 40.0, 40.0, 0.0);  
( 609589.1, 4202322.7, 40.0, 40.0, 0.0); ( 609604.1, 4202322.7, 40.0, 40.0, 0.0);  
( 609619.1, 4202322.7, 40.0, 40.0, 0.0); ( 609634.1, 4202322.7, 40.0, 40.0, 0.0);  
( 609649.1, 4202322.7, 40.0, 40.0, 0.0); ( 609664.1, 4202322.7, 40.0, 40.0, 0.0);  
( 609679.1, 4202322.7, 40.0, 40.0, 0.0); ( 609694.1, 4202322.7, 40.0, 40.0, 0.0);  
( 609409.1, 4202337.7, 40.0, 40.0, 0.0); ( 609424.1, 4202337.7, 40.0, 40.0, 0.0);  
( 609439.1, 4202337.7, 40.0, 40.0, 0.0); ( 609454.1, 4202337.7, 40.0, 40.0, 0.0);  
( 609469.1, 4202337.7, 40.0, 40.0, 0.0); ( 609484.1, 4202337.7, 40.0, 40.0, 0.0);  
( 609499.1, 4202337.7, 40.0, 40.0, 0.0); ( 609514.1, 4202337.7, 40.0, 40.0, 0.0);  
( 609529.1, 4202337.7, 40.0, 40.0, 0.0); ( 609544.1, 4202337.7, 40.0, 40.0, 0.0);

```

( 609559.1, 4202337.7, 40.0, 40.0, 0.0); ( 609574.1,
4202337.7, 40.0, 40.0, 0.0);
( 609589.1, 4202337.7, 40.0, 40.0, 0.0); ( 609604.1,
4202337.7, 40.0, 40.0, 0.0);
( 609619.1, 4202337.7, 40.0, 40.0, 0.0); ( 609634.1,
4202337.7, 39.9, 39.9, 0.0);
( 609649.1, 4202337.7, 39.7, 39.7, 0.0); ( 609664.1,
4202337.7, 39.6, 39.6, 0.0);
( 609679.1, 4202337.7, 39.6, 39.6, 0.0); ( 609694.1,
4202337.7, 39.6, 39.6, 0.0);
( 609709.1, 4202337.7, 39.6, 39.6, 0.0); ( 609724.1,
4202337.7, 40.0, 40.0, 0.0);
( 609409.1, 4202352.7, 40.0, 40.0, 0.0); ( 609424.1,
4202352.7, 40.0, 40.0, 0.0);
( 609439.1, 4202352.7, 40.0, 40.0, 0.0); ( 609454.1,
4202352.7, 40.0, 40.0, 0.0);
( 609469.1, 4202352.7, 40.0, 40.0, 0.0); ( 609484.1,
4202352.7, 40.0, 40.0, 0.0);
( 609499.1, 4202352.7, 40.0, 40.0, 0.0); ( 609514.1,
4202352.7, 40.0, 40.0, 0.0);
( 609529.1, 4202352.7, 40.0, 40.0, 0.0); ( 609544.1,
4202352.7, 40.0, 40.0, 0.0);
( 609559.1, 4202352.7, 40.0, 40.0, 0.0); ( 609574.1,
4202352.7, 40.0, 40.0, 0.0);
( 609589.1, 4202352.7, 40.0, 40.0, 0.0); ( 609604.1,
4202352.7, 40.0, 40.0, 0.0);
( 609619.1, 4202352.7, 40.0, 40.0, 0.0); ( 609634.1,
4202352.7, 39.7, 39.7, 0.0);
( 609649.1, 4202352.7, 39.2, 39.2, 0.0); ( 609664.1,
4202352.7, 39.1, 39.1, 0.0);
( 609679.1, 4202352.7, 39.1, 39.1, 0.0); ( 609694.1,
4202352.7, 39.1, 39.1, 0.0);
( 609709.1, 4202352.7, 39.1, 40.0, 0.0); ( 609724.1,
4202352.7, 40.0, 40.0, 0.0);
( 609409.1, 4202367.7, 40.0, 40.0, 0.0); ( 609424.1,
4202367.7, 40.0, 40.0, 0.0);
( 609439.1, 4202367.7, 40.0, 40.0, 0.0); ( 609454.1,
4202367.7, 40.0, 40.0, 0.0);
( 609469.1, 4202367.7, 40.0, 40.0, 0.0); ( 609484.1,
4202367.7, 40.0, 40.0, 0.0);
( 609499.1, 4202367.7, 40.0, 40.0, 0.0); ( 609514.1,
4202367.7, 40.0, 40.0, 0.0);

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^ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_TruckOperation\5200LoneTree_TruckO *** 10/25/21
*** AERMET - VERSION 14134 *** ***
*** 11:05:39

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

( 609529.1, 4202367.7, 40.0, 40.0, 0.0); ( 609544.1,  
4202367.7, 40.0, 40.0, 0.0);  
( 609559.1, 4202367.7, 40.0, 40.0, 0.0); ( 609574.1,  
4202367.7, 39.9, 39.9, 0.0);  
( 609589.1, 4202367.7, 39.7, 39.7, 0.0); ( 609604.1,  
4202367.7, 39.6, 39.6, 0.0);  
( 609619.1, 4202367.7, 39.6, 39.6, 0.0); ( 609634.1,  
4202367.7, 39.4, 39.4, 0.0);  
( 609649.1, 4202367.7, 39.1, 39.1, 0.0); ( 609664.1,  
4202367.7, 39.0, 39.0, 0.0);  
( 609679.1, 4202367.7, 39.0, 39.0, 0.0); ( 609694.1,  
4202367.7, 39.0, 39.0, 0.0);  
( 609709.1, 4202367.7, 39.0, 39.0, 0.0); ( 609724.1,  
4202367.7, 40.0, 40.0, 0.0);  
( 609394.1, 4202382.7, 40.0, 40.0, 0.0); ( 609409.1,  
4202382.7, 40.0, 40.0, 0.0);  
( 609424.1, 4202382.7, 40.0, 40.0, 0.0); ( 609439.1,  
4202382.7, 40.0, 40.0, 0.0);  
( 609454.1, 4202382.7, 40.0, 40.0, 0.0); ( 609469.1,  
4202382.7, 40.0, 40.0, 0.0);  
( 609484.1, 4202382.7, 40.0, 40.0, 0.0); ( 609499.1,  
4202382.7, 40.0, 40.0, 0.0);  
( 609514.1, 4202382.7, 40.0, 40.0, 0.0); ( 609529.1,  
4202382.7, 40.0, 40.0, 0.0);  
( 609544.1, 4202382.7, 40.0, 40.0, 0.0); ( 609559.1,  
4202382.7, 40.0, 40.0, 0.0);  
( 609574.1, 4202382.7, 39.7, 39.7, 0.0); ( 609589.1,  
4202382.7, 39.2, 39.2, 0.0);  
( 609604.1, 4202382.7, 39.1, 39.1, 0.0); ( 609619.1,  
4202382.7, 39.1, 39.1, 0.0);  
( 609634.1, 4202382.7, 39.1, 39.1, 0.0); ( 609649.1,  
4202382.7, 39.0, 39.0, 0.0);  
( 609664.1, 4202382.7, 39.0, 39.0, 0.0); ( 609679.1,  
4202382.7, 39.0, 39.0, 0.0);  
( 609694.1, 4202382.7, 39.0, 39.0, 0.0); ( 609709.1,  
4202382.7, 39.0, 40.0, 0.0);  
( 609724.1, 4202382.7, 40.0, 40.0, 0.0); ( 609394.1,  
4202397.7, 40.0, 40.0, 0.0);  
( 609409.1, 4202397.7, 40.0, 40.0, 0.0); ( 609424.1,  
4202397.7, 40.0, 40.0, 0.0);  
( 609439.1, 4202397.7, 40.0, 40.0, 0.0); ( 609454.1,  
4202397.7, 40.0, 40.0, 0.0);  
( 609469.1, 4202397.7, 40.0, 40.0, 0.0); ( 609484.1,  
4202397.7, 40.0, 40.0, 0.0);  
( 609499.1, 4202397.7, 40.0, 40.0, 0.0); ( 609514.1,  
4202397.7, 40.0, 40.0, 0.0);

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( 609529.1, 4202397.7, 40.0, 40.0, 0.0); ( 609544.1,
4202397.7, 39.9, 39.9, 0.0);
( 609559.1, 4202397.7, 39.7, 39.7, 0.0); ( 609574.1,
4202397.7, 39.4, 39.4, 0.0);
( 609589.1, 4202397.7, 39.1, 39.1, 0.0); ( 609604.1,
4202397.7, 39.0, 39.0, 0.0);
( 609619.1, 4202397.7, 39.0, 39.0, 0.0); ( 609634.1,
4202397.7, 39.0, 39.0, 0.0);
( 609649.1, 4202397.7, 39.0, 39.0, 0.0); ( 609664.1,
4202397.7, 39.0, 39.0, 0.0);
( 609679.1, 4202397.7, 39.0, 39.0, 0.0); ( 609694.1,
4202397.7, 39.0, 39.0, 0.0);
( 609709.1, 4202397.7, 39.0, 39.0, 0.0); ( 609724.1,
4202397.7, 39.6, 39.6, 0.0);
( 609394.1, 4202412.7, 40.0, 40.0, 0.0); ( 609409.1,
4202412.7, 40.0, 40.0, 0.0);
( 609424.1, 4202412.7, 40.0, 40.0, 0.0); ( 609439.1,
4202412.7, 40.0, 40.0, 0.0);
( 609454.1, 4202412.7, 40.0, 40.0, 0.0); ( 609469.1,
4202412.7, 40.0, 40.0, 0.0);
( 609484.1, 4202412.7, 40.0, 40.0, 0.0); ( 609499.1,
4202412.7, 40.0, 40.0, 0.0);
( 609514.1, 4202412.7, 40.0, 40.0, 0.0); ( 609529.1,
4202412.7, 40.0, 40.0, 0.0);
( 609544.1, 4202412.7, 39.7, 39.7, 0.0); ( 609559.1,
4202412.7, 39.2, 39.2, 0.0);
( 609574.1, 4202412.7, 39.1, 39.1, 0.0); ( 609589.1,
4202412.7, 39.0, 39.0, 0.0);
( 609604.1, 4202412.7, 39.0, 39.0, 0.0); ( 609619.1,
4202412.7, 39.0, 39.0, 0.0);
( 609634.1, 4202412.7, 39.0, 39.0, 0.0); ( 609649.1,
4202412.7, 39.0, 39.0, 0.0);
( 609664.1, 4202412.7, 39.0, 39.0, 0.0); ( 609679.1,
4202412.7, 39.0, 39.0, 0.0);
( 609694.1, 4202412.7, 39.0, 39.0, 0.0); ( 609709.1,
4202412.7, 39.0, 39.0, 0.0);
( 609724.1, 4202412.7, 39.1, 39.1, 0.0); ( 609394.1,
4202427.7, 40.0, 40.0, 0.0);
( 609409.1, 4202427.7, 40.0, 40.0, 0.0); ( 609424.1,
4202427.7, 40.0, 40.0, 0.0);
( 609439.1, 4202427.7, 40.0, 40.0, 0.0); ( 609454.1,
4202427.7, 40.0, 40.0, 0.0);
( 609469.1, 4202427.7, 40.0, 40.0, 0.0); ( 609484.1,
4202427.7, 40.0, 40.0, 0.0);

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▲ *** AERMOD - VERSION 2112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_TruckOperation\5200LoneTree_TruckO ***
*** AERMET - VERSION 14134 *** ***

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10/25/21

\*\*\* 11:05:39

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

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

( 609499.1, 4202427.7, 40.0, 40.0, 0.0);	( 609514.1,
4202427.7, 40.0, 40.0, 0.0);	
( 609529.1, 4202427.7, 40.0, 40.0, 0.0);	( 609544.1,
4202427.7, 39.8, 39.8, 0.0);	
( 609559.1, 4202427.7, 39.5, 39.5, 0.0);	( 609574.1,
4202427.7, 39.3, 39.3, 0.0);	
( 609589.1, 4202427.7, 39.1, 39.1, 0.0);	( 609604.1,
4202427.7, 39.0, 39.0, 0.0);	
( 609619.1, 4202427.7, 39.0, 39.0, 0.0);	( 609634.1,
4202427.7, 39.0, 39.0, 0.0);	
( 609649.1, 4202427.7, 39.0, 39.0, 0.0);	( 609664.1,
4202427.7, 39.0, 39.0, 0.0);	
( 609679.1, 4202427.7, 39.0, 39.0, 0.0);	( 609694.1,
4202427.7, 39.0, 39.0, 0.0);	
( 609709.1, 4202427.7, 39.0, 39.0, 0.0);	( 609724.1,
4202427.7, 39.0, 39.0, 0.0);	
( 609439.1, 4202472.7, 40.0, 40.0, 0.0);	( 609454.1,
4202472.7, 40.0, 40.0, 0.0);	
( 609469.1, 4202472.7, 40.0, 40.0, 0.0);	( 609484.1,
4202472.7, 40.0, 40.0, 0.0);	
( 609499.1, 4202472.7, 40.0, 40.0, 0.0);	( 609514.1,
4202472.7, 40.0, 40.0, 0.0);	
( 609529.1, 4202472.7, 40.0, 40.0, 0.0);	( 609544.1,
4202472.7, 40.0, 40.0, 0.0);	
( 609559.1, 4202472.7, 40.0, 40.0, 0.0);	( 609574.1,
4202472.7, 40.0, 40.0, 0.0);	
( 609589.1, 4202472.7, 39.9, 39.9, 0.0);	( 609604.1,
4202472.7, 39.6, 39.6, 0.0);	
( 609619.1, 4202472.7, 39.1, 39.1, 0.0);	( 609634.1,
4202472.7, 39.0, 39.0, 0.0);	
( 609649.1, 4202472.7, 39.0, 39.0, 0.0);	( 609664.1,
4202472.7, 39.0, 39.0, 0.0);	
( 609679.1, 4202472.7, 39.0, 39.0, 0.0);	( 609694.1,
4202472.7, 39.0, 39.0, 0.0);	
( 609319.1, 4202487.7, 41.4, 41.4, 0.0);	( 609334.1,
4202487.7, 41.4, 41.4, 0.0);	
( 609349.1, 4202487.7, 41.4, 41.4, 0.0);	( 609364.1,
4202487.7, 41.3, 41.3, 0.0);	
( 609394.1, 4202487.7, 40.8, 40.8, 0.0);	( 609409.1,
4202487.7, 40.5, 40.5, 0.0);	
( 609424.1, 4202487.7, 40.4, 40.4, 0.0);	( 609439.1,
4202487.7, 40.4, 40.4, 0.0);	
( 609454.1, 4202487.7, 40.3, 40.3, 0.0);	( 609469.1,
4202487.7, 40.1, 40.1, 0.0);	



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( 609484.1, 4202487.7, 40.0, 40.0, 0.0); ( 609499.1,
4202487.7, 40.0, 40.0, 0.0);
( 609514.1, 4202487.7, 40.0, 40.0, 0.0); ( 609529.1,
4202487.7, 40.0, 40.0, 0.0);
( 609544.1, 4202487.7, 40.0, 40.0, 0.0); ( 609559.1,
4202487.7, 40.0, 40.0, 0.0);
( 609574.1, 4202487.7, 40.0, 40.0, 0.0); ( 609589.1,
4202487.7, 40.0, 40.0, 0.0);
( 609604.1, 4202487.7, 39.8, 39.8, 0.0); ( 609619.1,
4202487.7, 39.5, 39.5, 0.0);
( 609634.1, 4202487.7, 39.4, 39.4, 0.0); ( 609649.1,
4202487.7, 39.4, 39.4, 0.0);
( 609664.1, 4202487.7, 39.3, 39.3, 0.0); ( 609679.1,
4202487.7, 39.1, 39.1, 0.0);
( 609184.1, 4202502.7, 41.9, 41.9, 0.0); ( 609199.1,
4202502.7, 41.9, 41.9, 0.0);
( 609214.1, 4202502.7, 41.9, 41.9, 0.0); ( 609229.1,
4202502.7, 42.0, 42.0, 0.0);
( 609244.1, 4202502.7, 42.0, 42.0, 0.0); ( 609259.1,
4202502.7, 42.0, 42.0, 0.0);
( 609274.1, 4202502.7, 42.0, 42.0, 0.0); ( 609289.1,
4202502.7, 41.9, 41.9, 0.0);
( 609304.1, 4202502.7, 41.9, 41.9, 0.0); ( 609319.1,
4202502.7, 41.9, 41.9, 0.0);
( 609334.1, 4202502.7, 41.9, 41.9, 0.0); ( 609349.1,
4202502.7, 41.9, 41.9, 0.0);
( 609364.1, 4202502.7, 41.6, 41.6, 0.0); ( 609394.1,
4202502.7, 41.0, 41.0, 0.0);
( 609409.1, 4202502.7, 40.9, 40.9, 0.0); ( 609424.1,
4202502.7, 40.9, 40.9, 0.0);
( 609439.1, 4202502.7, 40.9, 40.9, 0.0); ( 609454.1,
4202502.7, 40.6, 40.6, 0.0);
( 609469.1, 4202502.7, 40.1, 40.1, 0.0); ( 609484.1,
4202502.7, 40.0, 40.0, 0.0);
( 609499.1, 4202502.7, 40.0, 40.0, 0.0); ( 609514.1,
4202502.7, 40.0, 40.0, 0.0);
( 609529.1, 4202502.7, 40.0, 40.0, 0.0); ( 609544.1,
4202502.7, 40.0, 40.0, 0.0);
( 609559.1, 4202502.7, 40.0, 40.0, 0.0); ( 609574.1,
4202502.7, 40.0, 40.0, 0.0);
( 609589.1, 4202502.7, 40.0, 40.0, 0.0); ( 609604.1,
4202502.7, 40.0, 40.0, 0.0);
( 609619.1, 4202502.7, 39.9, 39.9, 0.0); ( 609634.1,
4202502.7, 39.9, 39.9, 0.0);
( 609649.1, 4202502.7, 39.9, 39.9, 0.0); ( 609664.1,
4202502.7, 39.6, 39.6, 0.0);

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^ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_TruckOperation\5200LoneTree_TruckO ***

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10/25/21

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*** AERMET - VERSION 14134 *** ***

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*** 11:05:39

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

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

( 609064.1, 4202517.7,	42.0,	42.0,	0.0);	( 609079.1,
4202517.7, 42.0,	42.0,	0.0);		( 609109.1,
( 609094.1, 4202517.7,	42.0,	42.0,	0.0);	( 609139.1,
4202517.7, 42.0,	42.0,	0.0);		( 609169.1,
( 609124.1, 4202517.7,	42.0,	42.0,	0.0);	( 609199.1,
4202517.7, 42.0,	42.0,	0.0);		( 609229.1,
( 609154.1, 4202517.7,	42.0,	42.0,	0.0);	( 609259.1,
4202517.7, 42.0,	42.0,	0.0);		( 609289.1,
( 609184.1, 4202517.7,	42.1,	42.1,	0.0);	( 609319.1,
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( 609214.1, 4202517.7,	42.4,	42.4,	0.0);	( 609409.1,
4202517.7, 42.4,	42.4,	0.0);		( 609439.1,
( 609244.1, 4202517.7,	42.4,	42.4,	0.0);	( 609469.1,
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( 609304.1, 4202517.7,	42.4,	42.4,	0.0);	( 609589.1,
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( 609424.1, 4202517.7,	41.0,	41.0,	0.0);	
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( 609484.1, 4202517.7,	40.0,	40.0,	0.0);	
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( 609544.1, 4202517.7,	40.0,	40.0,	0.0);	
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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN

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

( 609349.1, 4202547.7, 42.5, 42.5, 0.0);	( 609364.1, 4202547.7, 42.3, 42.3, 0.0);
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( 609469.1, 4202547.7, 40.2, 40.2, 0.0);	( 609484.1, 4202547.7, 40.0, 40.0, 0.0);
( 609499.1, 4202547.7, 40.0, 40.0, 0.0);	( 609514.1, 4202547.7, 40.0, 40.0, 0.0);
( 609529.1, 4202547.7, 40.0, 40.0, 0.0);	( 609544.1, 4202547.7, 40.0, 40.0, 0.0);
( 609559.1, 4202547.7, 40.0, 40.0, 0.0);	( 609574.1, 4202547.7, 40.0, 40.0, 0.0);
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( 609124.1, 4202562.7, 42.0, 42.0, 0.0);	( 609139.1, 4202562.7, 42.0, 42.0, 0.0);
( 609154.1, 4202562.7, 42.0, 42.0, 0.0);	( 609169.1, 4202562.7, 42.0, 42.0, 0.0);
( 609184.1, 4202562.7, 42.3, 42.3, 0.0);	( 609199.1, 4202562.7, 42.8, 42.8, 0.0);
( 609214.1, 4202562.7, 43.0, 43.0, 0.0);	( 609229.1, 4202562.7, 43.0, 43.0, 0.0);
( 609244.1, 4202562.7, 43.0, 43.0, 0.0);	( 609259.1, 4202562.7, 43.0, 43.0, 0.0);
( 609274.1, 4202562.7, 43.0, 43.0, 0.0);	( 609289.1, 4202562.7, 43.0, 43.0, 0.0);
( 609304.1, 4202562.7, 43.0, 43.0, 0.0);	( 609319.1, 4202562.7, 43.0, 43.0, 0.0);
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( 609424.1, 4202562.7, 41.6, 41.6, 0.0);	( 609439.1, 4202562.7, 41.1, 41.1, 0.0);
( 609454.1, 4202562.7, 40.7, 40.7, 0.0);	( 609469.1, 4202562.7, 40.2, 40.2, 0.0);
( 609484.1, 4202562.7, 40.0, 40.0, 0.0);	( 609499.1, 4202562.7, 40.0, 40.0, 0.0);

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▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Lakes\AERMOD  
View\5200LoneTree\_TruckOperation\5200LoneTree\_Truck0 \*\*\*  
\*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

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

( 609439.1, 4202592.7,	41.2,	41.2,	0.0);	( 609454.1,
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( 609529.1, 4202592.7,	40.0,	40.0,	0.0);	( 609169.1,
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( 609184.1, 4202607.7,	43.0,	43.0,	0.0);	( 609199.1,
4202607.7, 43.0, 43.0,	0.0);			
( 609214.1, 4202607.7,	43.0,	43.0,	0.0);	( 609229.1,
4202607.7, 43.0, 43.0,	0.0);			
( 609244.1, 4202607.7,	43.0,	43.0,	0.0);	( 609259.1,
4202607.7, 43.0, 43.0,	0.0);			
( 609274.1, 4202607.7,	43.0,	43.0,	0.0);	( 609289.1,
4202607.7, 43.0, 43.0,	0.0);			
( 609304.1, 4202607.7,	43.0,	43.0,	0.0);	( 609319.1,
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( 609334.1, 4202607.7,	43.0,	43.0,	0.0);	( 609349.1,
4202607.7, 43.0, 43.0,	0.0);			
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( 609454.1, 4202607.7,	40.7,	40.7,	0.0);	( 609469.1,
4202607.7, 40.2, 40.2,	0.0);			
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^ *** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD
View\5200LoneTree_TruckOperation\5200LoneTree_Truck0 *** 10/25/21
*** AERMET - VERSION 14134 *** ***
*** 11:05:39

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

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

DISTANCE (METERS)	SOURCE	- - RECEPTOR LOCATION - -	
	ID	XR (METERS)	YR (METERS)
-3.69	L0000019	609424.1	4202277.7
-0.08	L0000019	609424.1	4202322.7
-3.66	L0000020	609439.1	4202277.7
-1.77	L0000020	609454.1	4202277.7
-0.37	L0000020	609439.1	4202322.7
0.63	L0000021	609454.1	4202277.7
-4.01	L0000021	609469.1	4202277.7
0.98	L0000021	609484.1	4202277.7
-1.00	L0000021	609469.1	4202322.7
-1.72	L0000022	609484.1	4202277.7
	L0000022	609499.1	4202277.7

-3.18	L0000022	609484.1	4202322.7
0.72	L0000022	609499.1	4202322.7
-0.60	L0000023	609514.1	4202277.7
-3.14	L0000023	609529.1	4202277.7
-1.30	L0000023	609514.1	4202322.7
-0.89	L0000023	609529.1	4202322.7
0.79	L0000024	609544.1	4202277.7
-3.48	L0000024	609544.1	4202322.7
-1.53	L0000025	609559.1	4202277.7
-1.23	L0000025	609574.1	4202277.7
-2.66	L0000025	609559.1	4202322.7
0.23	L0000025	609574.1	4202322.7
-1.11	L0000026	609589.1	4202277.7
-2.63	L0000026	609604.1	4202277.7
-0.82	L0000026	609589.1	4202322.7
-1.41	L0000026	609604.1	4202322.7
0.31	L0000027	609619.1	4202277.7
-2.95	L0000027	609619.1	4202322.7
-2.06	L0000028	609634.1	4202277.7
-0.75	L0000028	609649.1	4202277.7
-2.15	L0000028	609634.1	4202322.7
-0.26	L0000028	609649.1	4202322.7
-1.63	L0000029	609664.1	4202277.7
-2.11	L0000029	609679.1	4202277.7
-0.34	L0000029	609664.1	4202322.7



-1.93  
 L0000029 609679.1 4202322.7  
 -0.17  
 L0000030 609694.1 4202277.7  
 -2.42  
 L0000030 609694.1 4202322.7  
 -2.59  
 L0000031 609709.1 4202277.7  
 -0.27

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_TruckOperation\5200LoneTree\_TruckO \*\*\* 10/25/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
 \*\*\* 11:05:39

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

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

DISTANCE (METERS)	SOURCE	- - RECEPTOR LOCATION - -	
	ID	XR (METERS)	YR (METERS)
- - -	L0000031	609724.1	4202277.7

-1.63  
 ▲ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_TruckOperation\5200LoneTree\_TruckO \*\*\* 10/25/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

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

1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1
1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	1 1 1

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      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
      1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

```

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

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

10.80, 1.54, 3.09, 5.14, 8.23,

```

^ *** AERMOD - VERSION 21112 *** C:\Lakes\AERMOD
View\5200LoneTree_TruckOperation\5200LoneTree_TruckO *** 10/25/21
*** AERMET - VERSION 14134 *** ***
*** 11:05:39

```

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

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

Surface file: C:\Users\kheck\Desktop\Met Data\Livermore\_2009-2014\724927.SFC  
Met Version: 14134

Profile file: C:\Users\kheck\Desktop\Met Data\Livermore\_2009-2014\724927.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 23285 Upper air station no.: 23230  
Name: UNKNOWN Name:

OAKLAND/WSO\_AP

Year: 2009 Year: 2009

```

First 24 hours of scalar data
YR MO DY JDY HR H0 U* W* DT/DZ ZICNV ZIMCH M-O LEN Z0 BOWEN
ALBEDO REF WS WD HT REF TA HT
-----

```

09 01 01	1 01	-12.6	0.221	-9.000	-9.000	-999.	250.	77.5	0.11	0.90
1.00	2.86	51.	10.0	279.2	2.0					
09 01 01	1 02	-23.5	0.413	-9.000	-9.000	-999.	637.	269.8	0.11	0.90
1.00	4.86	48.	10.0	279.2	2.0					
09 01 01	1 03	-11.1	0.195	-9.000	-9.000	-999.	254.	59.8	0.07	0.90
1.00	2.86	94.	10.0	278.8	2.0					
09 01 01	1 04	-9.5	0.166	-9.000	-9.000	-999.	164.	43.7	0.11	0.90
1.00	2.36	53.	10.0	278.1	2.0					
09 01 01	1 05	-11.1	0.195	-9.000	-9.000	-999.	206.	59.6	0.07	0.90
1.00	2.86	63.	10.0	278.1	2.0					
09 01 01	1 06	-8.2	0.143	-9.000	-9.000	-999.	131.	32.3	0.07	0.90
1.00	2.36	72.	10.0	278.1	2.0					
09 01 01	1 07	-8.2	0.143	-9.000	-9.000	-999.	130.	32.3	0.07	0.90
1.00	2.36	75.	10.0	278.1	2.0					
09 01 01	1 08	-4.1	0.078	-9.000	-9.000	-999.	53.	10.3	0.11	0.90
0.75	1.76	13.	10.0	277.5	2.0					
09 01 01	1 09	-6.3	0.246	-9.000	-9.000	-999.	292.	211.6	0.12	0.90
0.40	2.86	347.	10.0	278.1	2.0					
09 01 01	1 10	6.6	0.303	0.261	0.016	96.	401.	-378.3	0.11	0.90
0.27	3.36	51.	10.0	278.8	2.0					
09 01 01	1 11	15.4	0.317	0.422	0.017	176.	429.	-186.8	0.07	0.90
0.23	3.86	94.	10.0	279.9	2.0					
09 01 01	1 12	47.5	0.448	0.742	0.017	309.	720.	-170.5	0.11	0.90
0.22	4.86	56.	10.0	280.9	2.0					
09 01 01	1 13	49.0	0.405	0.820	0.014	403.	621.	-122.0	0.07	0.90
0.21	4.86	63.	10.0	281.4	2.0					
09 01 01	1 14	42.7	0.405	0.809	0.014	444.	619.	-139.5	0.11	0.90
0.22	4.36	59.	10.0	282.0	2.0					
09 01 01	1 15	60.8	0.372	0.922	0.014	463.	545.	-75.6	0.07	0.90
0.25	4.36	72.	10.0	281.4	2.0					
09 01 01	1 16	14.1	0.309	0.569	0.016	467.	414.	-187.5	0.11	0.90
0.34	3.36	54.	10.0	282.0	2.0					
09 01 01	1 17	-30.4	0.311	-9.000	-9.000	-999.	417.	89.1	0.07	0.90
0.58	4.36	61.	10.0	280.4	2.0					
09 01 01	1 18	-27.0	0.239	-9.000	-9.000	-999.	282.	45.2	0.11	0.90
1.00	3.36	47.	10.0	279.9	2.0					
09 01 01	1 19	-14.9	0.131	-9.000	-9.000	-999.	120.	13.7	0.07	0.90
1.00	2.86	64.	10.0	279.2	2.0					
09 01 01	1 20	-5.8	0.078	-9.000	-9.000	-999.	53.	7.3	0.11	0.90
1.00	1.76	47.	10.0	278.8	2.0					
09 01 01	1 21	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	0.90
1.00	0.00	0.	10.0	277.5	2.0					
09 01 01	1 22	-4.9	0.070	-9.000	-9.000	-999.	44.	6.2	0.07	0.90
1.00	1.76	82.	10.0	276.4	2.0					
09 01 01	1 23	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	0.90
1.00	0.00	0.	10.0	277.0	2.0					
09 01 01	1 24	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.10	0.90
1.00	0.00	0.	10.0	277.0	2.0					

First hour of profile data  
 YR MO DY HR HEIGHT F WDIR WSPD AMB\_TMP sigmaA sigmaW sigmaV  
 09 01 01 01 10.0 1 51. 2.86 279.3 99.0 -99.00 -99.00

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

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 View\5200LoneTree\_TruckOperation\5200LoneTree\_Truck0 \*\*\* 10/25/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
 \*\*\* 11:05:39

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

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

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
609304.09	4201857.70	0.00004	609319.09
4201857.70	0.00004		
609334.09	4201857.70	0.00004	609349.09
4201857.70	0.00004		
609364.09	4201857.70	0.00004	609379.09
4201857.70	0.00004		
609394.09	4201857.70	0.00004	609259.09
4201872.70	0.00004		
609304.09	4201872.70	0.00004	609319.09
4201872.70	0.00004		
609334.09	4201872.70	0.00004	609349.09
4201872.70	0.00004		
609364.09	4201872.70	0.00004	609379.09
4201872.70	0.00005		
609394.09	4201872.70	0.00005	609409.09
4201872.70	0.00005		

609424.09	4201872.70	0.00005	609439.09
4201872.70	0.00006		
609454.09	4201872.70	0.00006	609199.09
4201887.70	0.00006		
609214.09	4201887.70	0.00005	609229.09
4201887.70	0.00005		
609244.09	4201887.70	0.00005	609259.09
4201887.70	0.00005		
609274.09	4201887.70	0.00005	609304.09
4201887.70	0.00005		
609319.09	4201887.70	0.00005	609334.09
4201887.70	0.00005		
609349.09	4201887.70	0.00005	609364.09
4201887.70	0.00005		
609379.09	4201887.70	0.00005	609394.09
4201887.70	0.00005		
609409.09	4201887.70	0.00006	609424.09
4201887.70	0.00006		
609439.09	4201887.70	0.00006	609454.09
4201887.70	0.00007		
609469.09	4201887.70	0.00008	609484.09
4201887.70	0.00008		
609499.09	4201887.70	0.00009	609169.09
4201902.70	0.00007		
609184.09	4201902.70	0.00007	609199.09
4201902.70	0.00006		
609214.09	4201902.70	0.00006	609229.09
4201902.70	0.00006		
609244.09	4201902.70	0.00005	609259.09
4201902.70	0.00005		
609274.09	4201902.70	0.00005	609319.09
4201902.70	0.00005		
609334.09	4201902.70	0.00005	609349.09
4201902.70	0.00005		
609364.09	4201902.70	0.00005	609379.09
4201902.70	0.00005		
609394.09	4201902.70	0.00006	609409.09
4201902.70	0.00006		
609424.09	4201902.70	0.00007	609439.09
4201902.70	0.00007		
609454.09	4201902.70	0.00008	609469.09
4201902.70	0.00009		
609484.09	4201902.70	0.00009	609499.09
4201902.70	0.00010		
609514.09	4201902.70	0.00011	609529.09
4201902.70	0.00012		
609139.09	4201917.70	0.00009	609154.09
4201917.70	0.00008		
609169.09	4201917.70	0.00008	609184.09
4201917.70	0.00007		

609199.09	4201917.70	0.00007	609214.09
4201917.70	0.00007		
609229.09	4201917.70	0.00006	609244.09
4201917.70	0.00006		
609259.09	4201917.70	0.00006	609274.09
4201917.70	0.00006		
609289.09	4201917.70	0.00005	609319.09
4201917.70	0.00005		
609334.09	4201917.70	0.00005	609349.09
4201917.70	0.00006		
609364.09	4201917.70	0.00006	609379.09
4201917.70	0.00006		
609394.09	4201917.70	0.00006	609409.09
4201917.70	0.00007		

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 View\5200LoneTree\_TruckOperation\5200LoneTree\_TruckO \*\*\*    10/25/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*    \*\*\*  
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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN

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

INCLUDING SOURCE(S):    L0000001    ,    L0000002  
 , L0000003    ,    L0000004    ,    L0000005    ,  
                                  L0000006    ,    L0000007    ,    L0000008    ,    L0000009    ,    L0000010  
 , L0000011    ,    L0000012    ,    L0000013    ,  
                                  L0000014    ,    L0000015    ,    L0000016    ,    L0000017    ,    L0000018  
 , L0000019    ,    L0000020    ,    L0000021    ,  
                                  L0000022    ,    L0000023    ,    L0000024    ,    L0000025    ,    L0000026  
 , L0000027    ,    L0000028    ,    . . .    ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609424.09	4201917.70	0.00007	609439.09
4201917.70	0.00008		
609454.09	4201917.70	0.00009	609469.09
4201917.70	0.00010		
609484.09	4201917.70	0.00011	609499.09
4201917.70	0.00011		
609514.09	4201917.70	0.00012	609529.09

4201917.70	0.00013		
609544.09	4201917.70	0.00014	609109.09
4201932.70	0.00010		
609124.09	4201932.70	0.00010	609139.09
4201932.70	0.00010		
609154.09	4201932.70	0.00009	609169.09
4201932.70	0.00009		
609184.09	4201932.70	0.00008	609199.09
4201932.70	0.00008		
609214.09	4201932.70	0.00007	609229.09
4201932.70	0.00007		
609244.09	4201932.70	0.00007	609259.09
4201932.70	0.00006		
609274.09	4201932.70	0.00006	609289.09
4201932.70	0.00006		
609334.09	4201932.70	0.00006	609349.09
4201932.70	0.00006		
609364.09	4201932.70	0.00006	609379.09
4201932.70	0.00007		
609394.09	4201932.70	0.00007	609409.09
4201932.70	0.00008		
609424.09	4201932.70	0.00008	609439.09
4201932.70	0.00009		
609454.09	4201932.70	0.00010	609469.09
4201932.70	0.00011		
609484.09	4201932.70	0.00012	609499.09
4201932.70	0.00013		
609514.09	4201932.70	0.00014	609529.09
4201932.70	0.00015		
609544.09	4201932.70	0.00016	609559.09
4201932.70	0.00017		
609079.09	4201947.70	0.00012	609094.09
4201947.70	0.00012		
609109.09	4201947.70	0.00012	609124.09
4201947.70	0.00011		
609139.09	4201947.70	0.00011	609154.09
4201947.70	0.00010		
609169.09	4201947.70	0.00010	609184.09
4201947.70	0.00009		
609199.09	4201947.70	0.00009	609214.09
4201947.70	0.00008		
609229.09	4201947.70	0.00008	609244.09
4201947.70	0.00007		
609259.09	4201947.70	0.00007	609274.09
4201947.70	0.00007		
609289.09	4201947.70	0.00007	609304.09
4201947.70	0.00006		
609334.09	4201947.70	0.00006	609349.09
4201947.70	0.00007		
609364.09	4201947.70	0.00007	609379.09

4201947.70	0.00007			
	609394.09	4201947.70	0.00008	609409.09
4201947.70	0.00009			
	609424.09	4201947.70	0.00009	609439.09
4201947.70	0.00010			
	609454.09	4201947.70	0.00011	609469.09
4201947.70	0.00013			
	609484.09	4201947.70	0.00014	609499.09
4201947.70	0.00015			
	609514.09	4201947.70	0.00016	609529.09
4201947.70	0.00017			
	609544.09	4201947.70	0.00018	609559.09
4201947.70	0.00019			
	609574.09	4201947.70	0.00019	609064.09
4201962.70	0.00014			
	609079.09	4201962.70	0.00014	609094.09
4201962.70	0.00013			
	609109.09	4201962.70	0.00013	609124.09
4201962.70	0.00013			
	609139.09	4201962.70	0.00012	609154.09
4201962.70	0.00012			
	609169.09	4201962.70	0.00011	609184.09
4201962.70	0.00011			

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 \*\*\* AERMET - VERSION 14134 \*\*\*      \*\*\*  
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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN

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

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>      IN MICROGRAMS/M\*\*3

\*\*

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



609199.09	4201962.70	0.00010	609214.09
4201962.70	0.00009		
609229.09	4201962.70	0.00009	609244.09
4201962.70	0.00008		
609259.09	4201962.70	0.00008	609274.09
4201962.70	0.00008		
609289.09	4201962.70	0.00007	609304.09
4201962.70	0.00007		
609349.09	4201962.70	0.00007	609364.09
4201962.70	0.00008		
609379.09	4201962.70	0.00008	609394.09
4201962.70	0.00009		
609409.09	4201962.70	0.00010	609424.09
4201962.70	0.00011		
609439.09	4201962.70	0.00012	609454.09
4201962.70	0.00013		
609469.09	4201962.70	0.00015	609484.09
4201962.70	0.00016		
609499.09	4201962.70	0.00017	609514.09
4201962.70	0.00018		
609529.09	4201962.70	0.00019	609544.09
4201962.70	0.00020		
609559.09	4201962.70	0.00021	609574.09
4201962.70	0.00022		
609589.09	4201962.70	0.00022	609604.09
4201962.70	0.00023		
609049.09	4201977.70	0.00016	609064.09
4201977.70	0.00016		
609079.09	4201977.70	0.00015	609094.09
4201977.70	0.00015		
609109.09	4201977.70	0.00015	609124.09
4201977.70	0.00014		
609139.09	4201977.70	0.00014	609154.09
4201977.70	0.00013		
609169.09	4201977.70	0.00013	609184.09
4201977.70	0.00012		
609199.09	4201977.70	0.00011	609214.09
4201977.70	0.00011		
609229.09	4201977.70	0.00010	609244.09
4201977.70	0.00009		
609259.09	4201977.70	0.00009	609274.09
4201977.70	0.00008		
609289.09	4201977.70	0.00008	609304.09
4201977.70	0.00008		
609319.09	4201977.70	0.00008	609349.09
4201977.70	0.00008		
609364.09	4201977.70	0.00009	609379.09
4201977.70	0.00009		

609394.09	4201977.70	0.00010	609409.09
4201977.70	0.00011		
609424.09	4201977.70	0.00012	609439.09
4201977.70	0.00014		
609454.09	4201977.70	0.00015	609469.09
4201977.70	0.00017		
609484.09	4201977.70	0.00018	609499.09
4201977.70	0.00020		
609514.09	4201977.70	0.00021	609529.09
4201977.70	0.00022		
609544.09	4201977.70	0.00023	609559.09
4201977.70	0.00024		
609574.09	4201977.70	0.00024	609589.09
4201977.70	0.00025		
609604.09	4201977.70	0.00025	609619.09
4201977.70	0.00025		
609049.09	4201992.70	0.00017	609064.09
4201992.70	0.00017		
609079.09	4201992.70	0.00017	609094.09
4201992.70	0.00017		
609109.09	4201992.70	0.00017	609124.09
4201992.70	0.00016		
609139.09	4201992.70	0.00016	609154.09
4201992.70	0.00015		
609169.09	4201992.70	0.00015	609184.09
4201992.70	0.00014		
609199.09	4201992.70	0.00013	609214.09
4201992.70	0.00012		
609229.09	4201992.70	0.00012	609244.09
4201992.70	0.00011		
609259.09	4201992.70	0.00010	609274.09
4201992.70	0.00010		

^ \*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_TruckOperation\5200LoneTree\_TruckO \*\*\*                    10/25/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*    \*\*\*  
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\*\*\* MODELOPTs:    RegDEFAULT    CONC    ELEV    URBAN

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

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

**			
X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609289.09	4201992.70	0.00009	609304.09
4201992.70	0.00009		
609319.09	4201992.70	0.00009	609364.09
4201992.70	0.00010		
609379.09	4201992.70	0.00011	609394.09
4201992.70	0.00012		
609409.09	4201992.70	0.00013	609424.09
4201992.70	0.00014		
609439.09	4201992.70	0.00016	609454.09
4201992.70	0.00018		
609469.09	4201992.70	0.00020	609484.09
4201992.70	0.00021		
609499.09	4201992.70	0.00023	609514.09
4201992.70	0.00024		
609529.09	4201992.70	0.00025	609544.09
4201992.70	0.00026		
609559.09	4201992.70	0.00027	609574.09
4201992.70	0.00027		
609589.09	4201992.70	0.00028	609604.09
4201992.70	0.00028		
609619.09	4201992.70	0.00027	609634.09
4201992.70	0.00027		
609034.09	4202007.70	0.00019	609049.09
4202007.70	0.00019		
609064.09	4202007.70	0.00019	609079.09
4202007.70	0.00019		
609094.09	4202007.70	0.00019	609109.09
4202007.70	0.00019		
609124.09	4202007.70	0.00018	609139.09
4202007.70	0.00018		
609154.09	4202007.70	0.00017	609169.09
4202007.70	0.00017		
609184.09	4202007.70	0.00016	609199.09
4202007.70	0.00015		
609214.09	4202007.70	0.00014	609229.09
4202007.70	0.00013		
609244.09	4202007.70	0.00012	609259.09
4202007.70	0.00012		
609274.09	4202007.70	0.00011	609289.09

4202007.70	0.00010			
	609304.09	4202007.70	0.00010	609319.09
4202007.70	0.00010			
	609334.09	4202007.70	0.00010	609379.09
4202007.70	0.00012			
	609394.09	4202007.70	0.00013	609409.09
4202007.70	0.00015			
	609424.09	4202007.70	0.00017	609439.09
4202007.70	0.00019			
	609454.09	4202007.70	0.00021	609469.09
4202007.70	0.00023			
	609484.09	4202007.70	0.00025	609499.09
4202007.70	0.00027			
	609514.09	4202007.70	0.00028	609529.09
4202007.70	0.00029			
	609544.09	4202007.70	0.00030	609559.09
4202007.70	0.00030			
	609574.09	4202007.70	0.00031	609589.09
4202007.70	0.00031			
	609604.09	4202007.70	0.00030	609619.09
4202007.70	0.00030			
	609634.09	4202007.70	0.00029	609649.09
4202007.70	0.00029			
	609034.09	4202022.70	0.00021	609049.09
4202022.70	0.00021			
	609064.09	4202022.70	0.00021	609079.09
4202022.70	0.00021			
	609094.09	4202022.70	0.00021	609109.09
4202022.70	0.00021			
	609124.09	4202022.70	0.00021	609139.09
4202022.70	0.00021			
	609154.09	4202022.70	0.00020	609169.09
4202022.70	0.00019			
	609184.09	4202022.70	0.00019	609199.09
4202022.70	0.00018			
	609214.09	4202022.70	0.00017	609229.09
4202022.70	0.00016			
	609244.09	4202022.70	0.00014	609259.09
4202022.70	0.00013			
	609274.09	4202022.70	0.00013	609289.09
4202022.70	0.00012			

▲ \*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs:      RegDEFAULT    CONC    ELEV    URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION      VALUES AVERAGED OVER      5

YEARS FOR SOURCE GROUP: ALL

\*\*\*

INCLUDING SOURCE(S): L0000001 , L0000002  
 , L0000003 , L0000004 , L0000005 ,  
 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010  
 , L0000011 , L0000012 , L0000013 ,  
 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018  
 , L0000019 , L0000020 , L0000021 ,  
 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026  
 , L0000027 , L0000028 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609304.09	4202022.70	0.00011	609319.09
4202022.70	0.00011		
609334.09	4202022.70	0.00011	609349.09
4202022.70	0.00012		
609379.09	4202022.70	0.00014	609394.09
4202022.70	0.00016		
609409.09	4202022.70	0.00018	609424.09
4202022.70	0.00020		
609439.09	4202022.70	0.00023	609454.09
4202022.70	0.00025		
609469.09	4202022.70	0.00027	609484.09
4202022.70	0.00030		
609499.09	4202022.70	0.00031	609514.09
4202022.70	0.00032		
609529.09	4202022.70	0.00033	609544.09
4202022.70	0.00034		
609559.09	4202022.70	0.00034	609574.09
4202022.70	0.00034		
609589.09	4202022.70	0.00034	609604.09
4202022.70	0.00033		
609619.09	4202022.70	0.00033	609634.09
4202022.70	0.00032		
609649.09	4202022.70	0.00031	609664.09
4202022.70	0.00030		
609019.09	4202037.70	0.00022	609034.09
4202037.70	0.00023		
609049.09	4202037.70	0.00023	609064.09
4202037.70	0.00024		
609079.09	4202037.70	0.00024	609094.09
4202037.70	0.00024		

609109.09	4202037.70	0.00024	609124.09
4202037.70	0.00024		
609139.09	4202037.70	0.00024	609154.09
4202037.70	0.00023		
609169.09	4202037.70	0.00023	609184.09
4202037.70	0.00022		
609199.09	4202037.70	0.00021	609214.09
4202037.70	0.00020		
609229.09	4202037.70	0.00018	609244.09
4202037.70	0.00017		
609259.09	4202037.70	0.00016	609274.09
4202037.70	0.00015		
609289.09	4202037.70	0.00014	609304.09
4202037.70	0.00013		
609319.09	4202037.70	0.00013	609334.09
4202037.70	0.00013		
609349.09	4202037.70	0.00014	609394.09
4202037.70	0.00019		
609409.09	4202037.70	0.00022	609424.09
4202037.70	0.00025		
609439.09	4202037.70	0.00028	609454.09
4202037.70	0.00030		
609469.09	4202037.70	0.00033	609484.09
4202037.70	0.00035		
609499.09	4202037.70	0.00036	609514.09
4202037.70	0.00038		
609529.09	4202037.70	0.00038	609544.09
4202037.70	0.00038		
609559.09	4202037.70	0.00038	609574.09
4202037.70	0.00038		
609589.09	4202037.70	0.00037	609604.09
4202037.70	0.00036		
609619.09	4202037.70	0.00035	609634.09
4202037.70	0.00034		
609649.09	4202037.70	0.00033	609664.09
4202037.70	0.00032		
609679.09	4202037.70	0.00031	609019.09
4202052.70	0.00024		
609034.09	4202052.70	0.00025	609049.09
4202052.70	0.00025		
609064.09	4202052.70	0.00026	609079.09
4202052.70	0.00027		
609094.09	4202052.70	0.00027	609109.09
4202052.70	0.00027		
609124.09	4202052.70	0.00027	609139.09
4202052.70	0.00027		
609154.09	4202052.70	0.00027	609169.09
4202052.70	0.00027		
609184.09	4202052.70	0.00026	609199.09
4202052.70	0.00025		

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

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

INCLUDING SOURCE(S):    L0000001    ,    L0000002  
 , L0000003    ,    L0000004    ,    L0000005    ,  
                                  L0000006    ,    L0000007    ,    L0000008    ,    L0000009    ,    L0000010  
 , L0000011    ,    L0000012    ,    L0000013    ,  
                                  L0000014    ,    L0000015    ,    L0000016    ,    L0000017    ,    L0000018  
 , L0000019    ,    L0000020    ,    L0000021    ,  
                                  L0000022    ,    L0000023    ,    L0000024    ,    L0000025    ,    L0000026  
 , L0000027    ,    L0000028    ,    . . .    ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>    IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609214.09	4202052.70	0.00024	609229.09
4202052.70	0.00022		
609244.09	4202052.70	0.00020	609259.09
4202052.70	0.00019		
609274.09	4202052.70	0.00017	609289.09
4202052.70	0.00016		
609304.09	4202052.70	0.00015	609319.09
4202052.70	0.00015		
609334.09	4202052.70	0.00015	609349.09
4202052.70	0.00016		
609364.09	4202052.70	0.00018	609394.09
4202052.70	0.00023		
609409.09	4202052.70	0.00026	609424.09
4202052.70	0.00030		
609439.09	4202052.70	0.00034	609454.09
4202052.70	0.00037		
609469.09	4202052.70	0.00039	609484.09
4202052.70	0.00041		
609499.09	4202052.70	0.00043	609514.09
4202052.70	0.00043		
609529.09	4202052.70	0.00044	609544.09

4202052.70	0.00043			
609559.09	4202052.70	0.00043		609574.09
4202052.70	0.00042			
609589.09	4202052.70	0.00041		609604.09
4202052.70	0.00039			
609619.09	4202052.70	0.00038		609634.09
4202052.70	0.00037			
609649.09	4202052.70	0.00035		609664.09
4202052.70	0.00034			
609679.09	4202052.70	0.00033		609694.09
4202052.70	0.00031			
609004.09	4202067.70	0.00025		609019.09
4202067.70	0.00026			
609034.09	4202067.70	0.00027		609049.09
4202067.70	0.00028			
609064.09	4202067.70	0.00029		609079.09
4202067.70	0.00029			
609094.09	4202067.70	0.00030		609109.09
4202067.70	0.00031			
609124.09	4202067.70	0.00031		609139.09
4202067.70	0.00032			
609154.09	4202067.70	0.00032		609169.09
4202067.70	0.00031			
609184.09	4202067.70	0.00031		609199.09
4202067.70	0.00030			
609214.09	4202067.70	0.00028		609229.09
4202067.70	0.00027			
609244.09	4202067.70	0.00025		609259.09
4202067.70	0.00023			
609274.09	4202067.70	0.00021		609289.09
4202067.70	0.00019			
609304.09	4202067.70	0.00018		609319.09
4202067.70	0.00017			
609334.09	4202067.70	0.00018		609349.09
4202067.70	0.00019			
609364.09	4202067.70	0.00021		609409.09
4202067.70	0.00033			
609424.09	4202067.70	0.00037		609439.09
4202067.70	0.00041			
609454.09	4202067.70	0.00045		609469.09
4202067.70	0.00047			
609484.09	4202067.70	0.00049		609499.09
4202067.70	0.00050			
609514.09	4202067.70	0.00050		609529.09
4202067.70	0.00050			
609544.09	4202067.70	0.00049		609559.09
4202067.70	0.00048			
609574.09	4202067.70	0.00046		609589.09
4202067.70	0.00044			
609604.09	4202067.70	0.00043		609619.09



4202067.70	0.00041			
609634.09	4202067.70	0.00039		609649.09
4202067.70	0.00037			
609664.09	4202067.70	0.00036		609679.09
4202067.70	0.00034			
609694.09	4202067.70	0.00033		609709.09
4202067.70	0.00031			
609004.09	4202082.70	0.00027		609019.09
4202082.70	0.00028			

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

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

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>    IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609034.09	4202082.70	0.00029	609049.09
4202082.70	0.00030		
609064.09	4202082.70	0.00031	609079.09
4202082.70	0.00032		
609094.09	4202082.70	0.00034	609109.09
4202082.70	0.00035		
609124.09	4202082.70	0.00036	609139.09
4202082.70	0.00037		
609154.09	4202082.70	0.00037	609169.09
4202082.70	0.00037		
609184.09	4202082.70	0.00037	609199.09
4202082.70	0.00036		

609214.09	4202082.70	0.00035	609229.09
4202082.70	0.00033		
609244.09	4202082.70	0.00031	609259.09
4202082.70	0.00028		
609274.09	4202082.70	0.00026	609289.09
4202082.70	0.00023		
609304.09	4202082.70	0.00022	609319.09
4202082.70	0.00021		
609334.09	4202082.70	0.00021	609349.09
4202082.70	0.00023		
609364.09	4202082.70	0.00026	609409.09
4202082.70	0.00042		
609424.09	4202082.70	0.00047	609439.09
4202082.70	0.00052		
609454.09	4202082.70	0.00055	609469.09
4202082.70	0.00057		
609484.09	4202082.70	0.00059	609499.09
4202082.70	0.00059		
609514.09	4202082.70	0.00058	609529.09
4202082.70	0.00057		
609544.09	4202082.70	0.00055	609559.09
4202082.70	0.00053		
609574.09	4202082.70	0.00050	609589.09
4202082.70	0.00048		
609604.09	4202082.70	0.00046	609619.09
4202082.70	0.00044		
609634.09	4202082.70	0.00041	609649.09
4202082.70	0.00039		
609664.09	4202082.70	0.00037	609679.09
4202082.70	0.00036		
609694.09	4202082.70	0.00034	609709.09
4202082.70	0.00032		
609004.09	4202097.70	0.00028	609019.09
4202097.70	0.00029		
609034.09	4202097.70	0.00031	609049.09
4202097.70	0.00032		
609064.09	4202097.70	0.00034	609079.09
4202097.70	0.00036		
609094.09	4202097.70	0.00037	609109.09
4202097.70	0.00039		
609124.09	4202097.70	0.00040	609139.09
4202097.70	0.00042		
609154.09	4202097.70	0.00043	609169.09
4202097.70	0.00044		
609184.09	4202097.70	0.00044	609199.09
4202097.70	0.00044		
609214.09	4202097.70	0.00043	609229.09
4202097.70	0.00041		
609244.09	4202097.70	0.00039	609259.09
4202097.70	0.00036		

609274.09	4202097.70	0.00033	609289.09
4202097.70	0.00029		
609304.09	4202097.70	0.00027	609319.09
4202097.70	0.00026		
609334.09	4202097.70	0.00026	609349.09
4202097.70	0.00029		
609364.09	4202097.70	0.00033	609409.09
4202097.70	0.00054		
609424.09	4202097.70	0.00060	609439.09
4202097.70	0.00065		
609454.09	4202097.70	0.00068	609469.09
4202097.70	0.00069		
609484.09	4202097.70	0.00069	609499.09
4202097.70	0.00068		
609514.09	4202097.70	0.00066	609529.09
4202097.70	0.00064		
609544.09	4202097.70	0.00061	609559.09
4202097.70	0.00058		

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

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

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609574.09	4202097.70	0.00055	609589.09
4202097.70	0.00052		
609604.09	4202097.70	0.00049	609619.09

4202097.70	0.00046			
609634.09	4202097.70	0.00044		609649.09
4202097.70	0.00041			
609664.09	4202097.70	0.00039		609679.09
4202097.70	0.00037			
609694.09	4202097.70	0.00035		609709.09
4202097.70	0.00033			
609724.09	4202097.70	0.00032		608989.09
4202112.70	0.00028			
609004.09	4202112.70	0.00030		609019.09
4202112.70	0.00031			
609034.09	4202112.70	0.00033		609049.09
4202112.70	0.00035			
609064.09	4202112.70	0.00037		609079.09
4202112.70	0.00039			
609094.09	4202112.70	0.00041		609109.09
4202112.70	0.00043			
609124.09	4202112.70	0.00045		609139.09
4202112.70	0.00048			
609154.09	4202112.70	0.00049		609169.09
4202112.70	0.00051			
609184.09	4202112.70	0.00053		609199.09
4202112.70	0.00053			
609214.09	4202112.70	0.00053		609229.09
4202112.70	0.00052			
609244.09	4202112.70	0.00050		609259.09
4202112.70	0.00046			
609274.09	4202112.70	0.00042		609289.09
4202112.70	0.00038			
609304.09	4202112.70	0.00034		609319.09
4202112.70	0.00033			
609334.09	4202112.70	0.00033		609349.09
4202112.70	0.00037			
609364.09	4202112.70	0.00044		609379.09
4202112.70	0.00053			
609409.09	4202112.70	0.00071		609424.09
4202112.70	0.00078			
609439.09	4202112.70	0.00082		609454.09
4202112.70	0.00084			
609469.09	4202112.70	0.00084		609484.09
4202112.70	0.00082			
609499.09	4202112.70	0.00079		609514.09
4202112.70	0.00075			
609529.09	4202112.70	0.00071		609544.09
4202112.70	0.00067			
609559.09	4202112.70	0.00063		609574.09
4202112.70	0.00059			
609589.09	4202112.70	0.00055		609604.09
4202112.70	0.00052			
609619.09	4202112.70	0.00049		609634.09

4202112.70	0.00046			
	609649.09	4202112.70	0.00043	609664.09
4202112.70	0.00041			
	609679.09	4202112.70	0.00038	609694.09
4202112.70	0.00036			
	609709.09	4202112.70	0.00034	609724.09
4202112.70	0.00033			
	608989.09	4202127.70	0.00029	609004.09
4202127.70	0.00031			
	609019.09	4202127.70	0.00033	609034.09
4202127.70	0.00035			
	609049.09	4202127.70	0.00037	609064.09
4202127.70	0.00039			
	609079.09	4202127.70	0.00042	609094.09
4202127.70	0.00044			
	609109.09	4202127.70	0.00047	609124.09
4202127.70	0.00050			
	609139.09	4202127.70	0.00053	609154.09
4202127.70	0.00057			
	609169.09	4202127.70	0.00060	609184.09
4202127.70	0.00062			
	609199.09	4202127.70	0.00065	609214.09
4202127.70	0.00066			
	609229.09	4202127.70	0.00066	609244.09
4202127.70	0.00064			
	609259.09	4202127.70	0.00061	609274.09
4202127.70	0.00056			

▲ \*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_TruckOperation\5200LoneTree\_Truck0 \*\*\*    10/25/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*    \*\*\*  
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\*\*\* MODELOPTs:    RegDFault    CONC    ELEV    URBAN

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

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>    IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609289.09	4202127.70	0.00051	609304.09
4202127.70	0.00046		
609319.09	4202127.70	0.00044	609334.09
4202127.70	0.00045		
609349.09	4202127.70	0.00051	609364.09
4202127.70	0.00061		
609379.09	4202127.70	0.00073	609409.09
4202127.70	0.00095		
609424.09	4202127.70	0.00102	609439.09
4202127.70	0.00104		
609454.09	4202127.70	0.00103	609469.09
4202127.70	0.00100		
609484.09	4202127.70	0.00095	609499.09
4202127.70	0.00090		
609514.09	4202127.70	0.00084	609529.09
4202127.70	0.00078		
609544.09	4202127.70	0.00073	609559.09
4202127.70	0.00068		
609574.09	4202127.70	0.00063	609589.09
4202127.70	0.00059		
609604.09	4202127.70	0.00055	609619.09
4202127.70	0.00051		
609634.09	4202127.70	0.00048	609649.09
4202127.70	0.00045		
609664.09	4202127.70	0.00042	609679.09
4202127.70	0.00040		
609694.09	4202127.70	0.00038	609709.09
4202127.70	0.00035		
609724.09	4202127.70	0.00034	608974.09
4202142.70	0.00029		
608989.09	4202142.70	0.00030	609004.09
4202142.70	0.00032		
609019.09	4202142.70	0.00034	609034.09
4202142.70	0.00036		
609049.09	4202142.70	0.00039	609064.09
4202142.70	0.00041		
609079.09	4202142.70	0.00044	609094.09
4202142.70	0.00048		
609109.09	4202142.70	0.00051	609124.09
4202142.70	0.00055		
609139.09	4202142.70	0.00059	609154.09
4202142.70	0.00064		
609169.09	4202142.70	0.00068	609184.09
4202142.70	0.00073		

609199.09	4202142.70	0.00077	609214.09
4202142.70	0.00081		
609229.09	4202142.70	0.00084	609244.09
4202142.70	0.00084		
609259.09	4202142.70	0.00083	609274.09
4202142.70	0.00078		
609289.09	4202142.70	0.00071	609304.09
4202142.70	0.00065		
609319.09	4202142.70	0.00063	609334.09
4202142.70	0.00066		
609349.09	4202142.70	0.00076	609364.09
4202142.70	0.00089		
609379.09	4202142.70	0.00105	609409.09
4202142.70	0.00131		
609424.09	4202142.70	0.00135	609439.09
4202142.70	0.00132		
609454.09	4202142.70	0.00126	609469.09
4202142.70	0.00119		
609484.09	4202142.70	0.00110	609499.09
4202142.70	0.00101		
609514.09	4202142.70	0.00093	609529.09
4202142.70	0.00086		
609544.09	4202142.70	0.00079	609559.09
4202142.70	0.00072		
609574.09	4202142.70	0.00067	609589.09
4202142.70	0.00062		
609604.09	4202142.70	0.00057	609619.09
4202142.70	0.00053		
609634.09	4202142.70	0.00050	609649.09
4202142.70	0.00046		
609664.09	4202142.70	0.00044	609679.09
4202142.70	0.00041		
609694.09	4202142.70	0.00039	609709.09
4202142.70	0.00036		
609724.09	4202142.70	0.00035	608974.09
4202157.70	0.00029		

▲ \*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_TruckOperation\5200LoneTree\_Truck0 \*\*\*      10/25/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*      \*\*\*  
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\*\*\* MODELOPTs:      RegDFault    CONC    ELEV    URBAN

\*\*\* THE ANNUAL AVERAGE CONCENTRATION      VALUES AVERAGED OVER      5  
 YEARS FOR SOURCE GROUP: ALL      \*\*\*  
    INCLUDING SOURCE(S):      L0000001      ,      L0000002  
    , L0000003      ,      L0000004      ,      L0000005      ,  
         L0000006      ,      L0000007      ,      L0000008      ,      L0000009      ,      L0000010  
    ,      L0000011      ,      L0000012      ,      L0000013      ,

, L0000019      L0000014      , L0000015      , L0000016      , L0000017      , L0000018  
                   , L0000020      , L0000021      ,  
                   L0000022      , L0000023      , L0000024      , L0000025      , L0000026  
 , L0000027      , L0000028      , . . .      ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
608989.09	4202157.70	0.00031	609004.09
4202157.70	0.00033		
609019.09	4202157.70	0.00035	609034.09
4202157.70	0.00037		
609049.09	4202157.70	0.00040	609064.09
4202157.70	0.00043		
609079.09	4202157.70	0.00046	609094.09
4202157.70	0.00050		
609109.09	4202157.70	0.00054	609124.09
4202157.70	0.00059		
609139.09	4202157.70	0.00064	609154.09
4202157.70	0.00070		
609169.09	4202157.70	0.00077	609184.09
4202157.70	0.00084		
609199.09	4202157.70	0.00091	609214.09
4202157.70	0.00098		
609229.09	4202157.70	0.00105	609244.09
4202157.70	0.00111		
609259.09	4202157.70	0.00113	609274.09
4202157.70	0.00111		
609289.09	4202157.70	0.00105	609304.09
4202157.70	0.00098		
609319.09	4202157.70	0.00099	609334.09
4202157.70	0.00108		
609349.09	4202157.70	0.00122	609364.09
4202157.70	0.00139		
609379.09	4202157.70	0.00159	609409.09
4202157.70	0.00182		
609424.09	4202157.70	0.00177	609439.09
4202157.70	0.00166		
609454.09	4202157.70	0.00152	609469.09
4202157.70	0.00138		
609484.09	4202157.70	0.00124	609499.09
4202157.70	0.00112		
609514.09	4202157.70	0.00102	609529.09



4202157.70	0.00092			
	609544.09	4202157.70	0.00084	609559.09
4202157.70	0.00076			
	609574.09	4202157.70	0.00070	609589.09
4202157.70	0.00064			
	609604.09	4202157.70	0.00060	609619.09
4202157.70	0.00055			
	609634.09	4202157.70	0.00051	609649.09
4202157.70	0.00048			
	609664.09	4202157.70	0.00045	609679.09
4202157.70	0.00042			
	609694.09	4202157.70	0.00040	609709.09
4202157.70	0.00037			
	609724.09	4202157.70	0.00035	608959.09
4202172.70	0.00028			
	608974.09	4202172.70	0.00030	608989.09
4202172.70	0.00032			
	609004.09	4202172.70	0.00034	609019.09
4202172.70	0.00036			
	609034.09	4202172.70	0.00038	609049.09
4202172.70	0.00041			
	609064.09	4202172.70	0.00044	609079.09
4202172.70	0.00048			
	609094.09	4202172.70	0.00052	609109.09
4202172.70	0.00057			
	609124.09	4202172.70	0.00062	609139.09
4202172.70	0.00068			
	609154.09	4202172.70	0.00075	609169.09
4202172.70	0.00084			
	609184.09	4202172.70	0.00093	609199.09
4202172.70	0.00103			
	609214.09	4202172.70	0.00115	609229.09
4202172.70	0.00128			
	609244.09	4202172.70	0.00142	609259.09
4202172.70	0.00155			
	609274.09	4202172.70	0.00163	609289.09
4202172.70	0.00161			
	609304.09	4202172.70	0.00160	609319.09
4202172.70	0.00177			
	609334.09	4202172.70	0.00200	609349.09
4202172.70	0.00219			
	609364.09	4202172.70	0.00236	609379.09
4202172.70	0.00255			
	609424.09	4202172.70	0.00229	609439.09
4202172.70	0.00203			

▲ \*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Lakes\AERMOD  
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 \*\*\* AERMET - VERSION 14134 \*\*\*      \*\*\*

10/25/21

11:05:39

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

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

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609454.09	4202172.70	0.00178	609469.09
4202172.70	0.00156		
609484.09	4202172.70	0.00138	609499.09
4202172.70	0.00122		
609514.09	4202172.70	0.00109	609529.09
4202172.70	0.00098		
609544.09	4202172.70	0.00088	609559.09
4202172.70	0.00080		
609574.09	4202172.70	0.00073	609589.09
4202172.70	0.00067		
609604.09	4202172.70	0.00062	609619.09
4202172.70	0.00057		
609634.09	4202172.70	0.00053	609649.09
4202172.70	0.00049		
609664.09	4202172.70	0.00046	609679.09
4202172.70	0.00043		
609694.09	4202172.70	0.00041	609709.09
4202172.70	0.00038		
609724.09	4202172.70	0.00036	608959.09
4202187.70	0.00028		
608974.09	4202187.70	0.00030	608989.09
4202187.70	0.00032		
609004.09	4202187.70	0.00034	609019.09
4202187.70	0.00036		
609034.09	4202187.70	0.00039	609049.09
4202187.70	0.00042		

4202187.70	609064.09	4202187.70	0.00045	609079.09
4202187.70	0.00049			
4202187.70	609094.09	4202187.70	0.00054	609109.09
4202187.70	0.00058			
4202187.70	609124.09	4202187.70	0.00064	609139.09
4202187.70	0.00071			
4202187.70	609154.09	4202187.70	0.00078	609169.09
4202187.70	0.00088			
4202187.70	609184.09	4202187.70	0.00099	609199.09
4202187.70	0.00112			
4202187.70	609214.09	4202187.70	0.00128	609229.09
4202187.70	0.00147			
4202187.70	609244.09	4202187.70	0.00171	609259.09
4202187.70	0.00201			
4202187.70	609274.09	4202187.70	0.00234	609424.09
4202187.70	0.00283			
4202187.70	609439.09	4202187.70	0.00237	609454.09
4202187.70	0.00201			
4202187.70	609469.09	4202187.70	0.00172	609484.09
4202187.70	0.00149			
4202187.70	609499.09	4202187.70	0.00130	609514.09
4202187.70	0.00115			
4202187.70	609529.09	4202187.70	0.00102	609544.09
4202187.70	0.00092			
4202187.70	609559.09	4202187.70	0.00083	609574.09
4202187.70	0.00075			
4202187.70	609589.09	4202187.70	0.00069	609604.09
4202187.70	0.00063			
4202187.70	609619.09	4202187.70	0.00059	609634.09
4202187.70	0.00054			
4202187.70	609649.09	4202187.70	0.00051	609664.09
4202187.70	0.00047			
4202187.70	609679.09	4202187.70	0.00044	609694.09
4202187.70	0.00042			
4202187.70	609709.09	4202187.70	0.00039	609724.09
4202187.70	0.00037			
4202202.70	608959.09	4202202.70	0.00029	608974.09
4202202.70	0.00030			
4202202.70	608989.09	4202202.70	0.00032	609004.09
4202202.70	0.00035			
4202202.70	609019.09	4202202.70	0.00037	609034.09
4202202.70	0.00040			
4202202.70	609049.09	4202202.70	0.00043	609064.09
4202202.70	0.00046			
4202202.70	609079.09	4202202.70	0.00050	609094.09
4202202.70	0.00054			
4202202.70	609109.09	4202202.70	0.00059	609124.09
4202202.70	0.00065			
4202202.70	609139.09	4202202.70	0.00071	609154.09
4202202.70	0.00079			

609169.09 4202202.70 0.00089 609184.09  
 4202202.70 0.00101  
 609199.09 4202202.70 0.00116 609214.09  
 4202202.70 0.00134

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_TruckOperation\5200LoneTree\_TruckO \*\*\* 10/25/21  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 11:05:39

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

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

INCLUDING SOURCE(S): L0000001 , L0000002  
 , L0000003 , L0000004 , L0000005 ,  
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010  
 , L0000011 , L0000012 , L0000013 ,  
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018  
 , L0000019 , L0000020 , L0000021 ,  
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026  
 , L0000027 , L0000028 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609229.09	4202202.70	0.00157	609244.09
4202202.70	0.00187		
609259.09	4202202.70	0.00228	609274.09
4202202.70	0.00279		
609424.09	4202202.70	0.00326	609439.09
4202202.70	0.00262		
609454.09	4202202.70	0.00217	609469.09
4202202.70	0.00183		
609484.09	4202202.70	0.00156	609499.09
4202202.70	0.00135		
609514.09	4202202.70	0.00119	609529.09
4202202.70	0.00105		
609544.09	4202202.70	0.00094	609559.09
4202202.70	0.00085		
609574.09	4202202.70	0.00078	609589.09
4202202.70	0.00071		
609604.09	4202202.70	0.00065	609619.09

4202202.70	0.00061		
609634.09	4202202.70	0.00056	609649.09
4202202.70	0.00052		
609664.09	4202202.70	0.00049	609679.09
4202202.70	0.00046		
609694.09	4202202.70	0.00043	609709.09
4202202.70	0.00041		
609724.09	4202202.70	0.00038	608959.09
4202217.70	0.00029		
608974.09	4202217.70	0.00031	608989.09
4202217.70	0.00033		
609004.09	4202217.70	0.00036	609019.09
4202217.70	0.00038		
609034.09	4202217.70	0.00041	609049.09
4202217.70	0.00044		
609064.09	4202217.70	0.00047	609079.09
4202217.70	0.00051		
609094.09	4202217.70	0.00055	609109.09
4202217.70	0.00060		
609124.09	4202217.70	0.00065	609139.09
4202217.70	0.00071		
609154.09	4202217.70	0.00079	609169.09
4202217.70	0.00088		
609184.09	4202217.70	0.00099	609199.09
4202217.70	0.00114		
609214.09	4202217.70	0.00132	609229.09
4202217.70	0.00156		
609244.09	4202217.70	0.00188	609259.09
4202217.70	0.00231		
609274.09	4202217.70	0.00286	609424.09
4202217.70	0.00351		
609439.09	4202217.70	0.00276	609454.09
4202217.70	0.00225		
609469.09	4202217.70	0.00188	609484.09
4202217.70	0.00160		
609499.09	4202217.70	0.00138	609514.09
4202217.70	0.00121		
609529.09	4202217.70	0.00108	609544.09
4202217.70	0.00097		
609559.09	4202217.70	0.00088	609574.09
4202217.70	0.00080		
609589.09	4202217.70	0.00073	609604.09
4202217.70	0.00068		
609619.09	4202217.70	0.00063	609634.09
4202217.70	0.00058		
609649.09	4202217.70	0.00055	609664.09
4202217.70	0.00051		
609679.09	4202217.70	0.00048	609694.09
4202217.70	0.00045		
609709.09	4202217.70	0.00042	609724.09

```

4202217.70      0.00040
      608959.09   4202232.70      0.00030      608974.09
4202232.70      0.00032
      608989.09   4202232.70      0.00035      609004.09
4202232.70      0.00037
      609019.09   4202232.70      0.00040      609034.09
4202232.70      0.00043
      609049.09   4202232.70      0.00047      609064.09
4202232.70      0.00050
      609079.09   4202232.70      0.00053      609094.09
4202232.70      0.00056
      609109.09   4202232.70      0.00061      609124.09
4202232.70      0.00065

```

```

^ *** AERMOD - VERSION 21112 ***      *** C:\Lakes\AERMOD
View\5200LoneTree_TruckOperation\5200LoneTree_TruckO ***      10/25/21
*** AERMET - VERSION 14134 ***      ***
***                                     ***      11:05:39

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PAGE 40

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

```

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

```

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

```

      X-COORD (M)  Y-COORD (M)      CONC      X-COORD (M)
Y-COORD (M)      CONC
-----
      609139.09   4202232.70      0.00070      609154.09
4202232.70      0.00077
      609169.09   4202232.70      0.00085      609184.09
4202232.70      0.00095
      609199.09   4202232.70      0.00108      609214.09
4202232.70      0.00125
      609229.09   4202232.70      0.00148      609244.09
4202232.70      0.00179

```

609259.09	4202232.70	0.00222	609274.09
4202232.70	0.00280		
609424.09	4202232.70	0.00357	609439.09
4202232.70	0.00279		
609454.09	4202232.70	0.00225	609469.09
4202232.70	0.00187		
609484.09	4202232.70	0.00160	609499.09
4202232.70	0.00139		
609514.09	4202232.70	0.00123	609529.09
4202232.70	0.00110		
609544.09	4202232.70	0.00099	609559.09
4202232.70	0.00090		
609574.09	4202232.70	0.00083	609589.09
4202232.70	0.00077		
609604.09	4202232.70	0.00071	609619.09
4202232.70	0.00066		
609634.09	4202232.70	0.00062	609649.09
4202232.70	0.00058		
609664.09	4202232.70	0.00054	609679.09
4202232.70	0.00051		
609694.09	4202232.70	0.00048	609709.09
4202232.70	0.00045		
609724.09	4202232.70	0.00042	608959.09
4202247.70	0.00032		
608974.09	4202247.70	0.00035	608989.09
4202247.70	0.00038		
609004.09	4202247.70	0.00042	609019.09
4202247.70	0.00045		
609034.09	4202247.70	0.00048	609049.09
4202247.70	0.00052		
609064.09	4202247.70	0.00054	609079.09
4202247.70	0.00057		
609094.09	4202247.70	0.00060	609109.09
4202247.70	0.00064		
609124.09	4202247.70	0.00067	609139.09
4202247.70	0.00072		
609154.09	4202247.70	0.00077	609169.09
4202247.70	0.00084		
609184.09	4202247.70	0.00092	609199.09
4202247.70	0.00102		
609214.09	4202247.70	0.00116	609229.09
4202247.70	0.00135		
609244.09	4202247.70	0.00163	609259.09
4202247.70	0.00204		
609274.09	4202247.70	0.00261	609424.09
4202247.70	0.00348		
609439.09	4202247.70	0.00272	609454.09
4202247.70	0.00221		
609469.09	4202247.70	0.00185	609484.09
4202247.70	0.00159		

609499.09	4202247.70	0.00140	609514.09
4202247.70	0.00125		
609529.09	4202247.70	0.00113	609544.09
4202247.70	0.00103		
609559.09	4202247.70	0.00095	609574.09
4202247.70	0.00088		
609589.09	4202247.70	0.00082	609604.09
4202247.70	0.00077		
609619.09	4202247.70	0.00072	609634.09
4202247.70	0.00068		
609649.09	4202247.70	0.00064	609664.09
4202247.70	0.00060		
609679.09	4202247.70	0.00056	609694.09
4202247.70	0.00052		
609709.09	4202247.70	0.00049	609724.09
4202247.70	0.00046		
608959.09	4202262.70	0.00037	608974.09
4202262.70	0.00042		
608989.09	4202262.70	0.00047	609004.09
4202262.70	0.00052		
609019.09	4202262.70	0.00056	609034.09
4202262.70	0.00059		

^ \*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_TruckOperation\5200LoneTree\_Truck0 \*\*\*    10/25/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*    \*\*\*  
                                  \*\*\*    11:05:39

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

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

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>    IN MICROGRAMS/M\*\*3

\*\*

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

-----



4202262.70	609049.09	4202262.70	0.00062	609064.09
		0.00065		
4202262.70	609079.09	4202262.70	0.00067	609094.09
		0.00069		
4202262.70	609109.09	4202262.70	0.00072	609124.09
		0.00075		
4202262.70	609139.09	4202262.70	0.00078	609154.09
		0.00082		
4202262.70	609169.09	4202262.70	0.00087	609184.09
		0.00093		
4202262.70	609199.09	4202262.70	0.00100	609214.09
		0.00110		
4202262.70	609229.09	4202262.70	0.00124	609244.09
		0.00145		
4202262.70	609259.09	4202262.70	0.00177	609274.09
		0.00228		
4202262.70	609424.09	4202262.70	0.00325	609439.09
		0.00259		
4202262.70	609454.09	4202262.70	0.00215	609469.09
		0.00184		
4202262.70	609484.09	4202262.70	0.00161	609499.09
		0.00144		
4202262.70	609514.09	4202262.70	0.00130	609529.09
		0.00120		
4202262.70	609544.09	4202262.70	0.00111	609559.09
		0.00103		
4202262.70	609574.09	4202262.70	0.00097	609589.09
		0.00091		
4202262.70	609604.09	4202262.70	0.00087	609619.09
		0.00082		
4202262.70	609634.09	4202262.70	0.00078	609649.09
		0.00074		
4202262.70	609664.09	4202262.70	0.00070	609679.09
		0.00065		
4202262.70	609694.09	4202262.70	0.00061	609709.09
		0.00057		
4202277.70	609724.09	4202262.70	0.00052	609424.09
		0.00286		
4202277.70	609439.09	4202277.70	0.00238	609454.09
		0.00190		
4202277.70	609469.09	4202277.70	0.00177	609484.09
		0.00145		
4202277.70	609499.09	4202277.70	0.00142	609514.09
		0.00132		
4202277.70	609529.09	4202277.70	0.00121	609544.09
		0.00114		
4202277.70	609559.09	4202277.70	0.00110	609574.09
		0.00101		
	609589.09	4202277.70	0.00098	609604.09

4202277.70	0.00092			
	609619.09	4202277.70	0.00088	609634.09
4202277.70	0.00086			
	609649.09	4202277.70	0.00080	609664.09
4202277.70	0.00077			
	609679.09	4202277.70	0.00071	609694.09
4202277.70	0.00066			
	609709.09	4202277.70	0.00062	609724.09
4202277.70	0.00052			
	609409.09	4202322.70	0.00177	609424.09
4202322.70	0.00153			
	609439.09	4202322.70	0.00142	609454.09
4202322.70	0.00140			
	609469.09	4202322.70	0.00118	609484.09
4202322.70	0.00112			
	609499.09	4202322.70	0.00100	609514.09
4202322.70	0.00096			
	609529.09	4202322.70	0.00088	609544.09
4202322.70	0.00084			
	609559.09	4202322.70	0.00083	609574.09
4202322.70	0.00075			
	609589.09	4202322.70	0.00074	609604.09
4202322.70	0.00069			
	609619.09	4202322.70	0.00067	609634.09
4202322.70	0.00068			
	609649.09	4202322.70	0.00062	609664.09
4202322.70	0.00061			
	609679.09	4202322.70	0.00057	609694.09
4202322.70	0.00055			
	609409.09	4202337.70	0.00133	609424.09
4202337.70	0.00126			

^ \*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_TruckOperation\5200LoneTree\_TruckO \*\*\*      10/25/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*      \*\*\*  
                                  \*\*\*      11:05:39

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

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

			INCLUDING SOURCE(S):	L0000001	, L0000002
, L0000003	, L0000004	, L0000005	,		
	L0000006	, L0000007	, L0000008	, L0000009	, L0000010
, L0000011	, L0000012	, L0000013	,		
	L0000014	, L0000015	, L0000016	, L0000017	, L0000018
, L0000019	, L0000020	, L0000021	,		
	L0000022	, L0000023	, L0000024	, L0000025	, L0000026
, L0000027	, L0000028	, . . .	,		

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

**			
X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609439.09	4202337.70	0.00119	609454.09
4202337.70	0.00111		
609469.09	4202337.70	0.00103	609484.09
4202337.70	0.00096		
609499.09	4202337.70	0.00090	609514.09
4202337.70	0.00084		
609529.09	4202337.70	0.00079	609544.09
4202337.70	0.00075		
609559.09	4202337.70	0.00072	609574.09
4202337.70	0.00068		
609589.09	4202337.70	0.00065	609604.09
4202337.70	0.00063		
609619.09	4202337.70	0.00060	609634.09
4202337.70	0.00058		
609649.09	4202337.70	0.00056	609664.09
4202337.70	0.00054		
609679.09	4202337.70	0.00052	609694.09
4202337.70	0.00050		
609709.09	4202337.70	0.00047	609724.09
4202337.70	0.00044		
609409.09	4202352.70	0.00104	609424.09
4202352.70	0.00101		
609439.09	4202352.70	0.00097	609454.09
4202352.70	0.00091		
609469.09	4202352.70	0.00086	609484.09
4202352.70	0.00081		
609499.09	4202352.70	0.00076	609514.09
4202352.70	0.00071		
609529.09	4202352.70	0.00067	609544.09
4202352.70	0.00064		
609559.09	4202352.70	0.00060	609574.09
4202352.70	0.00058		
609589.09	4202352.70	0.00055	609604.09
4202352.70	0.00053		
609619.09	4202352.70	0.00051	609634.09
4202352.70	0.00048		
609649.09	4202352.70	0.00046	609664.09
4202352.70	0.00044		
609679.09	4202352.70	0.00043	609694.09
4202352.70	0.00041		

609709.09	4202352.70	0.00039	609724.09
4202352.70	0.00037		
609409.09	4202367.70	0.00084	609424.09
4202367.70	0.00083		
609439.09	4202367.70	0.00081	609454.09
4202367.70	0.00077		
609469.09	4202367.70	0.00073	609484.09
4202367.70	0.00070		
609499.09	4202367.70	0.00066	609514.09
4202367.70	0.00062		
609529.09	4202367.70	0.00059	609544.09
4202367.70	0.00056		
609559.09	4202367.70	0.00053	609574.09
4202367.70	0.00050		
609589.09	4202367.70	0.00048	609604.09
4202367.70	0.00046		
609619.09	4202367.70	0.00044	609634.09
4202367.70	0.00042		
609649.09	4202367.70	0.00040	609664.09
4202367.70	0.00038		
609679.09	4202367.70	0.00037	609694.09
4202367.70	0.00035		
609709.09	4202367.70	0.00034	609724.09
4202367.70	0.00032		
609394.09	4202382.70	0.00068	609409.09
4202382.70	0.00069		
609424.09	4202382.70	0.00069	609439.09
4202382.70	0.00068		
609454.09	4202382.70	0.00066	609469.09
4202382.70	0.00063		
609484.09	4202382.70	0.00061	609499.09
4202382.70	0.00058		
609514.09	4202382.70	0.00055	609529.09
4202382.70	0.00052		
609544.09	4202382.70	0.00050	609559.09
4202382.70	0.00047		
609574.09	4202382.70	0.00045	609589.09
4202382.70	0.00043		
609604.09	4202382.70	0.00041	609619.09
4202382.70	0.00039		

▲ \*\*\* AERMOD - VERSION 21112 \*\*\*      \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_TruckOperation\5200LoneTree\_Truck0 \*\*\*      10/25/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*      \*\*\*  
                                  \*\*\*      11:05:39

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

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

INCLUDING SOURCE(S): L0000001 , L0000002  
 , L0000003 , L0000004 , L0000005 ,  
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010  
 , L0000011 , L0000012 , L0000013 ,  
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018  
 , L0000019 , L0000020 , L0000021 ,  
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026  
 , L0000027 , L0000028 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609634.09	4202382.70	0.00037	609649.09
4202382.70	0.00036		
609664.09	4202382.70	0.00034	609679.09
4202382.70	0.00033		
609694.09	4202382.70	0.00031	609709.09
4202382.70	0.00030		
609724.09	4202382.70	0.00029	609394.09
4202397.70	0.00057		
609409.09	4202397.70	0.00058	609424.09
4202397.70	0.00059		
609439.09	4202397.70	0.00058	609454.09
4202397.70	0.00057		
609469.09	4202397.70	0.00055	609484.09
4202397.70	0.00053		
609499.09	4202397.70	0.00051	609514.09
4202397.70	0.00049		
609529.09	4202397.70	0.00047	609544.09
4202397.70	0.00045		
609559.09	4202397.70	0.00043	609574.09
4202397.70	0.00041		
609589.09	4202397.70	0.00039	609604.09
4202397.70	0.00037		
609619.09	4202397.70	0.00035	609634.09
4202397.70	0.00034		
609649.09	4202397.70	0.00032	609664.09
4202397.70	0.00031		
609679.09	4202397.70	0.00030	609694.09
4202397.70	0.00028		
609709.09	4202397.70	0.00027	609724.09
4202397.70	0.00026		
609394.09	4202412.70	0.00048	609409.09

4202412.70	0.00050			
609424.09	4202412.70	0.00050		609439.09
4202412.70	0.00050			
609454.09	4202412.70	0.00049		609469.09
4202412.70	0.00048			
609484.09	4202412.70	0.00047		609499.09
4202412.70	0.00046			
609514.09	4202412.70	0.00044		609529.09
4202412.70	0.00042			
609544.09	4202412.70	0.00040		609559.09
4202412.70	0.00039			
609574.09	4202412.70	0.00037		609589.09
4202412.70	0.00035			
609604.09	4202412.70	0.00034		609619.09
4202412.70	0.00032			
609634.09	4202412.70	0.00031		609649.09
4202412.70	0.00030			
609664.09	4202412.70	0.00029		609679.09
4202412.70	0.00027			
609694.09	4202412.70	0.00026		609709.09
4202412.70	0.00025			
609724.09	4202412.70	0.00024		609394.09
4202427.70	0.00042			
609409.09	4202427.70	0.00043		609424.09
4202427.70	0.00043			
609439.09	4202427.70	0.00044		609454.09
4202427.70	0.00043			
609469.09	4202427.70	0.00043		609484.09
4202427.70	0.00042			
609499.09	4202427.70	0.00041		609514.09
4202427.70	0.00040			
609529.09	4202427.70	0.00038		609544.09
4202427.70	0.00037			
609559.09	4202427.70	0.00035		609574.09
4202427.70	0.00034			
609589.09	4202427.70	0.00033		609604.09
4202427.70	0.00031			
609619.09	4202427.70	0.00030		609634.09
4202427.70	0.00029			
609649.09	4202427.70	0.00028		609664.09
4202427.70	0.00026			
609679.09	4202427.70	0.00025		609694.09
4202427.70	0.00024			
609709.09	4202427.70	0.00023		609724.09
4202427.70	0.00022			
609439.09	4202472.70	0.00030		609454.09
4202472.70	0.00030			
609469.09	4202472.70	0.00030		609484.09
4202472.70	0.00030			

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Lakes\AERMOD

\*\*\* AERMET - VERSION 14134 \*\*\*  
\*\*\* 11:05:39

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

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

INCLUDING SOURCE(S): L0000001 , L0000002  
, L0000003 , L0000004 , L0000005 ,  
L0000006 , L0000007 , L0000008 , L0000009 , L0000010  
, L0000011 , L0000012 , L0000013 ,  
L0000014 , L0000015 , L0000016 , L0000017 , L0000018  
, L0000019 , L0000020 , L0000021 ,  
L0000022 , L0000023 , L0000024 , L0000025 , L0000026  
, L0000027 , L0000028 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609499.09	4202472.70	0.00030	609514.09
4202472.70	0.00029		
609529.09	4202472.70	0.00029	609544.09
4202472.70	0.00028		
609559.09	4202472.70	0.00027	609574.09
4202472.70	0.00027		
609589.09	4202472.70	0.00026	609604.09
4202472.70	0.00025		
609619.09	4202472.70	0.00024	609634.09
4202472.70	0.00023		
609649.09	4202472.70	0.00023	609664.09
4202472.70	0.00022		
609679.09	4202472.70	0.00021	609694.09
4202472.70	0.00020		
609319.09	4202487.70	0.00019	609334.09
4202487.70	0.00020		
609349.09	4202487.70	0.00022	609364.09
4202487.70	0.00023		
609394.09	4202487.70	0.00025	609409.09
4202487.70	0.00026		
609424.09	4202487.70	0.00027	609439.09
4202487.70	0.00027		

609454.09	4202487.70	0.00027	609469.09
4202487.70	0.00027		
609484.09	4202487.70	0.00027	609499.09
4202487.70	0.00027		
609514.09	4202487.70	0.00027	609529.09
4202487.70	0.00026		
609544.09	4202487.70	0.00026	609559.09
4202487.70	0.00025		
609574.09	4202487.70	0.00025	609589.09
4202487.70	0.00024		
609604.09	4202487.70	0.00023	609619.09
4202487.70	0.00023		
609634.09	4202487.70	0.00022	609649.09
4202487.70	0.00021		
609664.09	4202487.70	0.00021	609679.09
4202487.70	0.00020		
609184.09	4202502.70	0.00010	609199.09
4202502.70	0.00011		
609214.09	4202502.70	0.00011	609229.09
4202502.70	0.00012		
609244.09	4202502.70	0.00012	609259.09
4202502.70	0.00013		
609274.09	4202502.70	0.00014	609289.09
4202502.70	0.00015		
609304.09	4202502.70	0.00016	609319.09
4202502.70	0.00017		
609334.09	4202502.70	0.00018	609349.09
4202502.70	0.00020		
609364.09	4202502.70	0.00021	609394.09
4202502.70	0.00023		
609409.09	4202502.70	0.00024	609424.09
4202502.70	0.00024		
609439.09	4202502.70	0.00025	609454.09
4202502.70	0.00025		
609469.09	4202502.70	0.00025	609484.09
4202502.70	0.00025		
609499.09	4202502.70	0.00025	609514.09
4202502.70	0.00024		
609529.09	4202502.70	0.00024	609544.09
4202502.70	0.00024		
609559.09	4202502.70	0.00023	609574.09
4202502.70	0.00023		
609589.09	4202502.70	0.00022	609604.09
4202502.70	0.00022		
609619.09	4202502.70	0.00021	609634.09
4202502.70	0.00021		
609649.09	4202502.70	0.00020	609664.09
4202502.70	0.00019		
609064.09	4202517.70	0.00006	609079.09
4202517.70	0.00007		



609094.09	4202517.70	0.00007	609109.09
4202517.70	0.00007		
609124.09	4202517.70	0.00008	609139.09
4202517.70	0.00008		
609154.09	4202517.70	0.00008	609169.09
4202517.70	0.00009		
609184.09	4202517.70	0.00009	609199.09
4202517.70	0.00010		

^ \*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_TruckOperation\5200LoneTree\_TruckO \*\*\*    10/25/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*    \*\*\*  
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\*\*\* MODELOPTs:    RegDEFAULT    CONC    ELEV    URBAN

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

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub>    IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609214.09	4202517.70	0.00010	609229.09
4202517.70	0.00011		
609244.09	4202517.70	0.00011	609259.09
4202517.70	0.00012		
609274.09	4202517.70	0.00013	609289.09
4202517.70	0.00014		
609304.09	4202517.70	0.00015	609319.09
4202517.70	0.00016		
609334.09	4202517.70	0.00017	609349.09
4202517.70	0.00018		
609364.09	4202517.70	0.00019	609409.09
4202517.70	0.00021		
609424.09	4202517.70	0.00022	609439.09

4202517.70	0.00022		
609454.09	4202517.70	0.00023	609469.09
4202517.70	0.00023		
609484.09	4202517.70	0.00023	609499.09
4202517.70	0.00023		
609514.09	4202517.70	0.00022	609529.09
4202517.70	0.00022		
609544.09	4202517.70	0.00022	609559.09
4202517.70	0.00022		
609574.09	4202517.70	0.00021	609589.09
4202517.70	0.00021		
609604.09	4202517.70	0.00020	609619.09
4202517.70	0.00020		
609634.09	4202517.70	0.00019	609649.09
4202517.70	0.00019		
609079.09	4202532.70	0.00006	609094.09
4202532.70	0.00007		
609109.09	4202532.70	0.00007	609124.09
4202532.70	0.00007		
609139.09	4202532.70	0.00008	609154.09
4202532.70	0.00008		
609169.09	4202532.70	0.00008	609184.09
4202532.70	0.00009		
609199.09	4202532.70	0.00009	609214.09
4202532.70	0.00010		
609229.09	4202532.70	0.00010	609244.09
4202532.70	0.00011		
609259.09	4202532.70	0.00011	609274.09
4202532.70	0.00012		
609289.09	4202532.70	0.00013	609304.09
4202532.70	0.00014		
609319.09	4202532.70	0.00014	609334.09
4202532.70	0.00015		
609349.09	4202532.70	0.00016	609364.09
4202532.70	0.00017		
609409.09	4202532.70	0.00019	609424.09
4202532.70	0.00020		
609439.09	4202532.70	0.00020	609454.09
4202532.70	0.00021		
609469.09	4202532.70	0.00021	609484.09
4202532.70	0.00021		
609499.09	4202532.70	0.00021	609514.09
4202532.70	0.00021		
609529.09	4202532.70	0.00020	609544.09
4202532.70	0.00020		
609559.09	4202532.70	0.00020	609574.09
4202532.70	0.00020		
609589.09	4202532.70	0.00019	609604.09
4202532.70	0.00019		
609619.09	4202532.70	0.00019	609094.09

4202547.70	0.00006			
609109.09	4202547.70	0.00006		609124.09
4202547.70	0.00007			
609139.09	4202547.70	0.00007		609154.09
4202547.70	0.00007			
609169.09	4202547.70	0.00008		609184.09
4202547.70	0.00008			
609199.09	4202547.70	0.00008		609214.09
4202547.70	0.00009			
609229.09	4202547.70	0.00009		609244.09
4202547.70	0.00010			
609259.09	4202547.70	0.00011		609274.09
4202547.70	0.00011			
609289.09	4202547.70	0.00012		609304.09
4202547.70	0.00013			
609319.09	4202547.70	0.00013		609334.09
4202547.70	0.00014			

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

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

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
Y-COORD (M)	CONC		
609349.09	4202547.70	0.00015	609364.09
4202547.70	0.00016		
609409.09	4202547.70	0.00018	609424.09
4202547.70	0.00018		

609439.09	4202547.70	0.00019	609454.09
4202547.70	0.00019		
609469.09	4202547.70	0.00019	609484.09
4202547.70	0.00019		
609499.09	4202547.70	0.00019	609514.09
4202547.70	0.00019		
609529.09	4202547.70	0.00019	609544.09
4202547.70	0.00019		
609559.09	4202547.70	0.00019	609574.09
4202547.70	0.00018		
609589.09	4202547.70	0.00018	609109.09
4202562.70	0.00006		
609124.09	4202562.70	0.00006	609139.09
4202562.70	0.00007		
609154.09	4202562.70	0.00007	609169.09
4202562.70	0.00007		
609184.09	4202562.70	0.00008	609199.09
4202562.70	0.00008		
609214.09	4202562.70	0.00008	609229.09
4202562.70	0.00009		
609244.09	4202562.70	0.00009	609259.09
4202562.70	0.00010		
609274.09	4202562.70	0.00010	609289.09
4202562.70	0.00011		
609304.09	4202562.70	0.00012	609319.09
4202562.70	0.00012		
609334.09	4202562.70	0.00013	609349.09
4202562.70	0.00014		
609364.09	4202562.70	0.00014	609409.09
4202562.70	0.00016		
609424.09	4202562.70	0.00017	609439.09
4202562.70	0.00017		
609454.09	4202562.70	0.00017	609469.09
4202562.70	0.00017		
609484.09	4202562.70	0.00018	609499.09
4202562.70	0.00018		
609514.09	4202562.70	0.00018	609529.09
4202562.70	0.00018		
609544.09	4202562.70	0.00017	609559.09
4202562.70	0.00017		
609574.09	4202562.70	0.00017	609124.09
4202577.70	0.00006		
609139.09	4202577.70	0.00006	609154.09
4202577.70	0.00007		
609169.09	4202577.70	0.00007	609184.09
4202577.70	0.00007		
609199.09	4202577.70	0.00007	609214.09
4202577.70	0.00008		
609229.09	4202577.70	0.00008	609244.09
4202577.70	0.00009		

609259.09	4202577.70	0.00009	609274.09
4202577.70	0.00010		
609289.09	4202577.70	0.00010	609304.09
4202577.70	0.00011		
609319.09	4202577.70	0.00011	609334.09
4202577.70	0.00012		
609349.09	4202577.70	0.00013	609364.09
4202577.70	0.00013		
609409.09	4202577.70	0.00015	609424.09
4202577.70	0.00015		
609439.09	4202577.70	0.00016	609454.09
4202577.70	0.00016		
609469.09	4202577.70	0.00016	609484.09
4202577.70	0.00016		
609499.09	4202577.70	0.00016	609514.09
4202577.70	0.00016		
609529.09	4202577.70	0.00016	609544.09
4202577.70	0.00016		
609139.09	4202592.70	0.00006	609154.09
4202592.70	0.00006		
609169.09	4202592.70	0.00006	609184.09
4202592.70	0.00007		
609199.09	4202592.70	0.00007	609214.09
4202592.70	0.00007		
609229.09	4202592.70	0.00008	609244.09
4202592.70	0.00008		

^ \*\*\* AERMOD - VERSION 21112 \*\*\*    \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs:    RegDEFAULT    CONC    ELEV    URBAN

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

				INCLUDING SOURCE(S):	L0000001	,	L0000002
, L0000003	, L0000004	, L0000005	,				
	L0000006	, L0000007	,	L0000008	, L0000009	, L0000010	
, L0000011	, L0000012	, L0000013	,				
	L0000014	, L0000015	,	L0000016	, L0000017	, L0000018	
, L0000019	, L0000020	, L0000021	,				
	L0000022	, L0000023	,	L0000024	, L0000025	, L0000026	
, L0000027	, L0000028	, . . .	,				

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)
4202592.70	609259.09	4202592.70	0.00009	609274.09
4202592.70	609289.09	4202592.70	0.00010	609304.09
4202592.70	609319.09	4202592.70	0.00011	609334.09
4202592.70	609349.09	4202592.70	0.00012	609364.09
4202592.70	609409.09	4202592.70	0.00014	609424.09
4202592.70	609439.09	4202592.70	0.00015	609454.09
4202592.70	609469.09	4202592.70	0.00015	609484.09
4202592.70	609499.09	4202592.70	0.00015	609514.09
4202607.70	609529.09	4202592.70	0.00015	609169.09
4202607.70	609184.09	4202607.70	0.00006	609199.09
4202607.70	609214.09	4202607.70	0.00007	609229.09
4202607.70	609244.09	4202607.70	0.00008	609259.09
4202607.70	609274.09	4202607.70	0.00009	609289.09
4202607.70	609304.09	4202607.70	0.00009	609319.09
4202607.70	609334.09	4202607.70	0.00010	609349.09
4202607.70	609364.09	4202607.70	0.00011	609409.09
4202607.70	609424.09	4202607.70	0.00013	609439.09
4202607.70	609454.09	4202607.70	0.00014	609469.09
4202607.70	609484.09	4202607.70	0.00014	609499.09
4202622.70	609199.09	4202622.70	0.00006	609214.09
4202622.70	609229.09	4202622.70	0.00007	609244.09
4202622.70	609259.09	4202622.70	0.00008	609274.09
4202622.70	609289.09	4202622.70	0.00008	609304.09

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4202622.70      0.00009
      609319.09      4202622.70      0.00009      609334.09
4202622.70      0.00010
      609349.09      4202622.70      0.00010      609364.09
4202622.70      0.00011
      609409.09      4202622.70      0.00012      609424.09
4202622.70      0.00012
      609439.09      4202622.70      0.00013      609454.09
4202622.70      0.00013
      609469.09      4202622.70      0.00013      609408.39
4202173.48      0.00259

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^ *** AERMOD - VERSION 21112 ***      *** C:\Lakes\AERMOD
View\5200LoneTree_TruckOperation\5200LoneTree_TruckO ***      10/25/21
*** AERMET - VERSION 14134 ***      ***
***      ***      11:05:39

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

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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
      INCLUDING SOURCE(S):      L0000001      , L0000002
, L0000003      , L0000004      , L0000005      ,
      L0000006      , L0000007      , L0000008      , L0000009      , L0000010
, L0000011      , L0000012      , L0000013      ,
      L0000014      , L0000015      , L0000016      , L0000017      , L0000018
, L0000019      , L0000020      , L0000021      ,
      L0000022      , L0000023      , L0000024      , L0000025      , L0000026
, L0000027      , L0000028      , . . .      ,

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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

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\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC (YYMMDDHH)	X-COORD (M)
609304.09	4201857.70	0.00564 (12020204)	609319.09
4201857.70	0.00551 (12020204)		
609334.09	4201857.70	0.00553 (12010420)	609349.09
4201857.70	0.00567 (09012323)		
609364.09	4201857.70	0.00568 (09012323)	609379.09
4201857.70	0.00543 (12123104)		
609394.09	4201857.70	0.00545 (09012120)	609259.09
4201872.70	0.00599 (10010720)		
609304.09	4201872.70	0.00593 (12020204)	609319.09
4201872.70	0.00581 (12020204)		

609334.09	4201872.70	0.00581	(12010420)	609349.09
4201872.70	0.00597 (09012323)			
609364.09	4201872.70	0.00596	(09012323)	609379.09
4201872.70	0.00571 (12123104)			
609394.09	4201872.70	0.00578	(09012120)	609409.09
4201872.70	0.00590 (09012120)			
609424.09	4201872.70	0.00572	(10021118)	609439.09
4201872.70	0.00574 (12012619)			
609454.09	4201872.70	0.00560	(09122003)	609199.09
4201887.70	0.00583 (09123119)			
609214.09	4201887.70	0.00593	(10010301)	609229.09
4201887.70	0.00602 (09012222)			
609244.09	4201887.70	0.00626	(09012222)	609259.09
4201887.70	0.00627 (10010720)			
609274.09	4201887.70	0.00623	(10010720)	609304.09
4201887.70	0.00623 (12020204)			
609319.09	4201887.70	0.00613	(12020204)	609334.09
4201887.70	0.00612 (12010420)			
609349.09	4201887.70	0.00629	(09012323)	609364.09
4201887.70	0.00625 (09012323)			
609379.09	4201887.70	0.00602	(12123104)	609394.09
4201887.70	0.00613 (09012120)			
609409.09	4201887.70	0.00618	(09012120)	609424.09
4201887.70	0.00598 (10021118)			
609439.09	4201887.70	0.00603	(12012619)	609454.09
4201887.70	0.00591 (09122003)			
609469.09	4201887.70	0.00584	(12120619)	609484.09
4201887.70	0.00580 (12120619)			
609499.09	4201887.70	0.00572	(10121002)	609169.09
4201902.70	0.00590 (12020820)			
609184.09	4201902.70	0.00599	(09123119)	609199.09
4201902.70	0.00617 (09123119)			
609214.09	4201902.70	0.00623	(10010301)	609229.09
4201902.70	0.00620 (09012222)			
609244.09	4201902.70	0.00656	(09012222)	609259.09
4201902.70	0.00656 (10010720)			
609274.09	4201902.70	0.00661	(10010720)	609319.09
4201902.70	0.00648 (12020204)			
609334.09	4201902.70	0.00645	(12010420)	609349.09
4201902.70	0.00663 (09012323)			
609364.09	4201902.70	0.00658	(09012323)	609379.09
4201902.70	0.00634 (12123104)			
609394.09	4201902.70	0.00650	(09012120)	609409.09
4201902.70	0.00647 (09012120)			
609424.09	4201902.70	0.00632	(12012619)	609439.09
4201902.70	0.00631 (12012619)			
609454.09	4201902.70	0.00621	(09122003)	609469.09
4201902.70	0.00618 (12120619)			
609484.09	4201902.70	0.00603	(10121002)	609499.09
4201902.70	0.00597 (10121002)			



609514.09	4201902.70	0.00572	(10012503)	609529.09
4201902.70	0.00567	(09022304)		
609139.09	4201917.70	0.00597	(10011607)	609154.09
4201917.70	0.00613	(11010301)		
609169.09	4201917.70	0.00615	(12020820)	609184.09
4201917.70	0.00626	(09121706)		
609199.09	4201917.70	0.00646	(09123119)	609214.09
4201917.70	0.00650	(10010301)		
609229.09	4201917.70	0.00658	(10010301)	609244.09
4201917.70	0.00686	(09012222)		
609259.09	4201917.70	0.00694	(09012222)	609274.09
4201917.70	0.00700	(10010720)		
609289.09	4201917.70	0.00668	(10010720)	609319.09
4201917.70	0.00687	(12020204)		
609334.09	4201917.70	0.00681	(12010420)	609349.09
4201917.70	0.00701	(09012323)		
609364.09	4201917.70	0.00692	(09012323)	609379.09
4201917.70	0.00669	(12123104)		
609394.09	4201917.70	0.00689	(09012120)	609409.09
4201917.70	0.00678	(09012120)		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_TruckOperation\5200LoneTree\_Truck0 \*\*\* 10/25/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
 \*\*\* 11:05:39

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 \*\*\*  
 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000001 , L0000002  
 , L0000003 , L0000004 , L0000005 ,  
 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010  
 , L0000011 , L0000012 , L0000013 ,  
 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018  
 , L0000019 , L0000020 , L0000021 ,  
 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026  
 , L0000027 , L0000028 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609424.09	4201917.70	0.00672	(12012619)	609439.09

4201917.70	0.00658	(12012619)		
609454.09	4201917.70	0.00650	(09122003)	609469.09
4201917.70	0.00649	(12120619)		
609484.09	4201917.70	0.00638	(10121002)	609499.09
4201917.70	0.00618	(10012503)		
609514.09	4201917.70	0.00595	(09022304)	609529.09
4201917.70	0.00598	(09022304)		
609544.09	4201917.70	0.00582	(11011324)	609109.09
4201932.70	0.00588	(10122508)		
609124.09	4201932.70	0.00589	(09013019)	609139.09
4201932.70	0.00616	(10011607)		
609154.09	4201932.70	0.00635	(11010301)	609169.09
4201932.70	0.00650	(11010301)		
609184.09	4201932.70	0.00657	(12020820)	609199.09
4201932.70	0.00671	(09123119)		
609214.09	4201932.70	0.00686	(09123119)	609229.09
4201932.70	0.00696	(10010301)		
609244.09	4201932.70	0.00712	(09012222)	609259.09
4201932.70	0.00736	(09012222)		
609274.09	4201932.70	0.00741	(10010720)	609289.09
4201932.70	0.00716	(10010720)		
609334.09	4201932.70	0.00721	(12010420)	609349.09
4201932.70	0.00742	(09012323)		
609364.09	4201932.70	0.00730	(09012323)	609379.09
4201932.70	0.00707	(12123104)		
609394.09	4201932.70	0.00731	(09012120)	609409.09
4201932.70	0.00710	(10021118)		
609424.09	4201932.70	0.00712	(12012619)	609439.09
4201932.70	0.00697	(09122003)		
609454.09	4201932.70	0.00690	(12120619)	609469.09
4201932.70	0.00677	(12120619)		
609484.09	4201932.70	0.00669	(10121002)	609499.09
4201932.70	0.00638	(10012503)		
609514.09	4201932.70	0.00636	(09022304)	609529.09
4201932.70	0.00624	(11011324)		
609544.09	4201932.70	0.00599	(09120624)	609559.09
4201932.70	0.00580	(10011219)		
609079.09	4201947.70	0.00579	(09010524)	609094.09
4201947.70	0.00602	(10121905)		
609109.09	4201947.70	0.00606	(12021405)	609124.09
4201947.70	0.00625	(10122508)		
609139.09	4201947.70	0.00632	(09013019)	609154.09
4201947.70	0.00663	(10011607)		
609169.09	4201947.70	0.00685	(11010301)	609184.09
4201947.70	0.00688	(12020820)		
609199.09	4201947.70	0.00701	(09121706)	609214.09
4201947.70	0.00726	(09123119)		
609229.09	4201947.70	0.00733	(10010301)	609244.09
4201947.70	0.00738	(09012222)		
609259.09	4201947.70	0.00777	(09012222)	609274.09

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4201947.70      0.00782 (10010720)
      609289.09  4201947.70      0.00768 (10010720)      609304.09
4201947.70      0.00768 (12020204)
      609334.09  4201947.70      0.00764 (12010420)      609349.09
4201947.70      0.00787 (09012323)
      609364.09  4201947.70      0.00771 (09012323)      609379.09
4201947.70      0.00753 (09012120)
      609394.09  4201947.70      0.00775 (09012120)      609409.09
4201947.70      0.00750 (10021118)
      609424.09  4201947.70      0.00752 (12012619)      609439.09
4201947.70      0.00737 (09122003)
      609454.09  4201947.70      0.00732 (12120619)      609469.09
4201947.70      0.00717 (10121002)
      609484.09  4201947.70      0.00695 (10012503)      609499.09
4201947.70      0.00672 (09022304)
      609514.09  4201947.70      0.00669 (09022304)      609529.09
4201947.70      0.00645 (11011324)
      609544.09  4201947.70      0.00619 (09120624)      609559.09
4201947.70      0.00617 (10011219)
      609574.09  4201947.70      0.00597 (10011219)      609064.09
4201962.70      0.00588 (10120519)
      609079.09  4201962.70      0.00604 (10020602)      609094.09
4201962.70      0.00616 (10121905)
      609109.09  4201962.70      0.00638 (10121905)      609124.09
4201962.70      0.00649 (10122508)
      609139.09  4201962.70      0.00666 (10122508)      609154.09
4201962.70      0.00685 (10011607)
      609169.09  4201962.70      0.00713 (10011607)      609184.09
4201962.70      0.00733 (11010301)

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^ *** AERMOD - VERSION 21112 ***      *** C:\Lakes\AERMOD
View\5200LoneTree_TruckOperation\5200LoneTree_TruckO ***      10/25/21
*** AERMET - VERSION 14134 ***      ***
***      ***      11:05:39

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

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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
      INCLUDING SOURCE(S):      L0000001      , L0000002
, L0000003      , L0000004      , L0000005      ,
      L0000006      , L0000007      , L0000008      , L0000009      , L0000010
, L0000011      , L0000012      , L0000013      ,
      L0000014      , L0000015      , L0000016      , L0000017      , L0000018
, L0000019      , L0000020      , L0000021      ,
      L0000022      , L0000023      , L0000024      , L0000025      , L0000026
, L0000027      , L0000028      , . . .      ,

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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

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

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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609199.09	4201962.70	0.00742	(12020820)	609214.09
4201962.70	0.00761	(09123119)		
609229.09	4201962.70	0.00772	(09123119)	609244.09
4201962.70	0.00783	(10010301)		
609259.09	4201962.70	0.00817	(09012222)	609274.09
4201962.70	0.00825	(10010720)		
609289.09	4201962.70	0.00823	(10010720)	609304.09
4201962.70	0.00812	(12020204)		
609349.09	4201962.70	0.00837	(09012323)	609364.09
4201962.70	0.00815	(09012323)		
609379.09	4201962.70	0.00808	(09012120)	609394.09
4201962.70	0.00821	(09012120)		
609409.09	4201962.70	0.00801	(12012619)	609424.09
4201962.70	0.00791	(12012619)		
609439.09	4201962.70	0.00775	(12120619)	609454.09
4201962.70	0.00770	(12120619)		
609469.09	4201962.70	0.00756	(10121002)	609484.09
4201962.70	0.00720	(10012503)		
609499.09	4201962.70	0.00718	(09022304)	609514.09
4201962.70	0.00699	(11011324)		
609529.09	4201962.70	0.00669	(09120624)	609544.09
4201962.70	0.00659	(10011219)		
609559.09	4201962.70	0.00642	(10011219)	609574.09
4201962.70	0.00613	(11123024)		
609589.09	4201962.70	0.00600	(11123024)	609604.09
4201962.70	0.00576	(09010206)		
609049.09	4201977.70	0.00587	(09020508)	609064.09
4201977.70	0.00600	(09123118)		
609079.09	4201977.70	0.00625	(10120519)	609094.09
4201977.70	0.00643	(10020602)		
609109.09	4201977.70	0.00658	(10121905)	609124.09
4201977.70	0.00684	(10121905)		
609139.09	4201977.70	0.00702	(10122508)	609154.09
4201977.70	0.00712	(10122508)		
609169.09	4201977.70	0.00746	(10011607)	609184.09
4201977.70	0.00772	(11010301)		
609199.09	4201977.70	0.00779	(12020820)	609214.09
4201977.70	0.00796	(09121706)		
609229.09	4201977.70	0.00824	(09123119)	609244.09
4201977.70	0.00835	(10010301)		
609259.09	4201977.70	0.00859	(09012222)	609274.09
4201977.70	0.00875	(09012222)		

609289.09	4201977.70	0.00881	(10010720)	609304.09
4201977.70	0.00859	(12020204)		
609319.09	4201977.70	0.00879	(12020204)	609349.09
4201977.70	0.00892	(09012323)		
609364.09	4201977.70	0.00864	(09012323)	609379.09
4201977.70	0.00869	(09012120)		
609394.09	4201977.70	0.00870	(09012120)	609409.09
4201977.70	0.00857	(12012619)		
609424.09	4201977.70	0.00840	(09122003)	609439.09
4201977.70	0.00832	(12120619)		
609454.09	4201977.70	0.00815	(10121002)	609469.09
4201977.70	0.00790	(10012503)		
609484.09	4201977.70	0.00767	(09022304)	609499.09
4201977.70	0.00756	(11011324)		
609514.09	4201977.70	0.00724	(09120624)	609529.09
4201977.70	0.00705	(10011219)		
609544.09	4201977.70	0.00693	(10011219)	609559.09
4201977.70	0.00656	(11123024)		
609574.09	4201977.70	0.00645	(11123024)	609589.09
4201977.70	0.00617	(09010206)		
609604.09	4201977.70	0.00580	(13022722)	609619.09
4201977.70	0.00574	(13012505)		
609049.09	4201992.70	0.00604	(10020603)	609064.09
4201992.70	0.00623	(09020508)		
609079.09	4201992.70	0.00640	(09123118)	609094.09
4201992.70	0.00667	(10120519)		
609109.09	4201992.70	0.00688	(10020602)	609124.09
4201992.70	0.00711	(10121905)		
609139.09	4201992.70	0.00737	(10121905)	609154.09
4201992.70	0.00758	(10122508)		
609169.09	4201992.70	0.00769	(09013019)	609184.09
4201992.70	0.00808	(10011607)		
609199.09	4201992.70	0.00835	(11010301)	609214.09
4201992.70	0.00847	(12020820)		
609229.09	4201992.70	0.00873	(09123119)	609244.09
4201992.70	0.00885	(10010301)		
609259.09	4201992.70	0.00899	(09012222)	609274.09
4201992.70	0.00936	(09012222)		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_TruckOperation\5200LoneTree\_TruckO \*\*\* 10/25/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
 \*\*\* 11:05:39

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): L000001 , L000002  
 , L000003 , L000004 , L000005 ,

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, L0000011      , L0000012      , L0000013      ,
, L0000019      , L0000020      , L0000021      ,
, L0000027      , L0000028      , . . .

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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M\*\*3

\*\*

Y-COORD (M)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
4201992.70	609289.09	4201992.70	0.00941	(10010720)	609304.09
4201992.70	609319.09	4201992.70	0.00940	(12020204)	609364.09
4201992.70	609379.09	4201992.70	0.00934	(09012120)	609394.09
4201992.70	609409.09	4201992.70	0.00915	(12012619)	609424.09
4201992.70	609439.09	4201992.70	0.00886	(12120619)	609454.09
4201992.70	609469.09	4201992.70	0.00823	(10012503)	609484.09
4201992.70	609499.09	4201992.70	0.00790	(11011324)	609514.09
4201992.70	609529.09	4201992.70	0.00749	(10011219)	609544.09
4201992.70	609559.09	4201992.70	0.00694	(11123024)	609574.09
4201992.70	609589.09	4201992.70	0.00622	(13022722)	609604.09
4201992.70	609619.09	4201992.70	0.00605	(13012505)	609634.09
4202007.70	609034.09	4202007.70	0.00600	(10011203)	609049.09
4202007.70	609064.09	4202007.70	0.00644	(10020603)	609079.09
4202007.70	609094.09	4202007.70	0.00687	(09123118)	609109.09
4202007.70	609124.09	4202007.70	0.00743	(10020602)	609139.09
4202007.70	609154.09	4202007.70	0.00794	(10121905)	609169.09
4202007.70	609184.09	4202007.70	0.00843	(10011607)	609199.09

4202007.70	0.00882	(11010301)		
609214.09	4202007.70	0.00897	(11010301)	609229.09
4202007.70	0.00915	(09121706)		
609244.09	4202007.70	0.00947	(09123119)	609259.09
4202007.70	0.00957	(10010301)		
609274.09	4202007.70	0.00999	(09012222)	609289.09
4202007.70	0.01007	(10010720)		
609304.09	4202007.70	0.00971	(10010720)	609319.09
4202007.70	0.01008	(12020204)		
609334.09	4202007.70	0.00993	(12010420)	609379.09
4202007.70	0.01005	(09012120)		
609394.09	4202007.70	0.00980	(10021118)	609409.09
4202007.70	0.00974	(12012619)		
609424.09	4202007.70	0.00956	(12120619)	609439.09
4202007.70	0.00938	(10121002)		
609454.09	4202007.70	0.00911	(10121002)	609469.09
4202007.70	0.00886	(09022304)		
609484.09	4202007.70	0.00866	(11011324)	609499.09
4202007.70	0.00824	(09120624)		
609514.09	4202007.70	0.00812	(10011219)	609529.09
4202007.70	0.00775	(10011219)		
609544.09	4202007.70	0.00751	(11123024)	609559.09
4202007.70	0.00718	(09010206)		
609574.09	4202007.70	0.00671	(13022722)	609589.09
4202007.70	0.00665	(13012505)		
609604.09	4202007.70	0.00649	(13012505)	609619.09
4202007.70	0.00616	(13012505)		
609634.09	4202007.70	0.00588	(09122007)	609649.09
4202007.70	0.00578	(09122007)		
609034.09	4202022.70	0.00622	(10011203)	609049.09
4202022.70	0.00641	(10011203)		
609064.09	4202022.70	0.00663	(10011708)	609079.09
4202022.70	0.00691	(10020603)		
609094.09	4202022.70	0.00716	(09020508)	609109.09
4202022.70	0.00740	(09123118)		
609124.09	4202022.70	0.00776	(10120519)	609139.09
4202022.70	0.00808	(10020602)		
609154.09	4202022.70	0.00842	(10121905)	609169.09
4202022.70	0.00860	(10122508)		
609184.09	4202022.70	0.00887	(10122508)	609199.09
4202022.70	0.00931	(10011607)		
609214.09	4202022.70	0.00966	(11010301)	609229.09
4202022.70	0.00981	(12020820)		
609244.09	4202022.70	0.01014	(09123119)	609259.09
4202022.70	0.01030	(10010301)		
609274.09	4202022.70	0.01064	(09012222)	609289.09
4202022.70	0.01078	(10010720)		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_TruckOperation\5200LoneTree\_TruckO \*\*\*  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

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

INCLUDING SOURCE(S): L0000001 , L0000002  
 , L0000003 , L0000004 , L0000005 ,  
 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010  
 , L0000011 , L0000012 , L0000013 ,  
 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018  
 , L0000019 , L0000020 , L0000021 ,  
 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026  
 , L0000027 , L0000028 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609304.09	4202022.70	0.01059	(10010720)	609319.09
4202022.70	0.01084	(12020204)		
609334.09	4202022.70	0.01068	(12010420)	609349.09
4202022.70	0.01097	(09012323)		
609379.09	4202022.70	0.01082	(09012120)	609394.09
4202022.70	0.01058	(12012619)		
609409.09	4202022.70	0.01040	(09122003)	609424.09
4202022.70	0.01031	(12120619)		
609439.09	4202022.70	0.01008	(10121002)	609454.09
4202022.70	0.00953	(10012503)		
609469.09	4202022.70	0.00948	(09022304)	609484.09
4202022.70	0.00903	(09120624)		
609499.09	4202022.70	0.00881	(10011219)	609514.09
4202022.70	0.00849	(10011219)		
609529.09	4202022.70	0.00815	(11123024)	609544.09
4202022.70	0.00779	(09010206)		
609559.09	4202022.70	0.00726	(13022722)	609574.09
4202022.70	0.00720	(13012505)		
609589.09	4202022.70	0.00698	(13012505)	609604.09
4202022.70	0.00657	(13012505)		
609619.09	4202022.70	0.00636	(09122007)	609634.09
4202022.70	0.00619	(09122007)		
609649.09	4202022.70	0.00598	(10120324)	609664.09
4202022.70	0.00569	(10120324)		



609019.09	4202037.70	0.00669	(10011620)	609034.09
4202037.70	0.00660	(10011620)		
609049.09	4202037.70	0.00659	(10011203)	609064.09
4202037.70	0.00689	(10011203)		
609079.09	4202037.70	0.00711	(10011708)	609094.09
4202037.70	0.00746	(10020603)		
609109.09	4202037.70	0.00775	(09020508)	609124.09
4202037.70	0.00806	(09123118)		
609139.09	4202037.70	0.00847	(10120519)	609154.09
4202037.70	0.00881	(10020602)		
609169.09	4202037.70	0.00921	(10121905)	609184.09
4202037.70	0.00949	(10122508)		
609199.09	4202037.70	0.00972	(09013019)	609214.09
4202037.70	0.01022	(10011607)		
609229.09	4202037.70	0.01048	(11010301)	609244.09
4202037.70	0.01074	(09123119)		
609259.09	4202037.70	0.01100	(10010301)	609274.09
4202037.70	0.01129	(09012222)		
609289.09	4202037.70	0.01157	(09012222)	609304.09
4202037.70	0.01154	(10010720)		
609319.09	4202037.70	0.01169	(12020204)	609334.09
4202037.70	0.01154	(12010420)		
609349.09	4202037.70	0.01183	(09012323)	609394.09
4202037.70	0.01146	(12012619)		
609409.09	4202037.70	0.01120	(09122003)	609424.09
4202037.70	0.01102	(12120619)		
609439.09	4202037.70	0.01069	(10121002)	609454.09
4202037.70	0.01039	(09022304)		
609469.09	4202037.70	0.01002	(11011324)	609484.09
4202037.70	0.00959	(10011219)		
609499.09	4202037.70	0.00934	(10011219)	609514.09
4202037.70	0.00889	(11123024)		
609529.09	4202037.70	0.00849	(09010206)	609544.09
4202037.70	0.00790	(13022722)		
609559.09	4202037.70	0.00782	(13012505)	609574.09
4202037.70	0.00753	(13012505)		
609589.09	4202037.70	0.00704	(13012505)	609604.09
4202037.70	0.00688	(09122007)		
609619.09	4202037.70	0.00666	(10120324)	609634.09
4202037.70	0.00638	(10120324)		
609649.09	4202037.70	0.00606	(12022704)	609664.09
4202037.70	0.00585	(12022704)		
609679.09	4202037.70	0.00557	(10121903)	609019.09
4202052.70	0.00712	(10020504)		
609034.09	4202052.70	0.00725	(10011620)	609049.09
4202052.70	0.00725	(10011620)		
609064.09	4202052.70	0.00713	(10011620)	609079.09
4202052.70	0.00746	(10011203)		
609094.09	4202052.70	0.00772	(10011203)	609109.09
4202052.70	0.00810	(10011708)		

609124.09	4202052.70	0.00844	(09020508)	609139.09
4202052.70	0.00881	(09123118)		
609154.09	4202052.70	0.00928	(10121405)	609169.09
4202052.70	0.00969	(10020602)		
609184.09	4202052.70	0.01016	(10121905)	609199.09
4202052.70	0.01048	(10122508)		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_TruckOperation\5200LoneTree\_Truck0 \*\*\* 10/25/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
 \*\*\* 11:05:39

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): L0000001 , L0000002  
 , L0000003 , L0000004 , L0000005 ,  
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010  
 , L0000011 , L0000012 , L0000013 ,  
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018  
 , L0000019 , L0000020 , L0000021 ,  
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026  
 , L0000027 , L0000028 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609214.09	4202052.70	0.01083	(10011607)	609229.09
4202052.70	0.01133	(11010301)		
609244.09	4202052.70	0.01156	(12020820)	609259.09
4202052.70	0.01196	(09123119)		
609274.09	4202052.70	0.01209	(10010301)	609289.09
4202052.70	0.01256	(09012222)		
609304.09	4202052.70	0.01259	(10010720)	609319.09
4202052.70	0.01265	(12020204)		
609334.09	4202052.70	0.01251	(12010420)	609349.09
4202052.70	0.01280	(09012323)		
609364.09	4202052.70	0.01244	(09012120)	609394.09
4202052.70	0.01239	(12012619)		
609409.09	4202052.70	0.01215	(12120619)	609424.09
4202052.70	0.01192	(10121002)		
609439.09	4202052.70	0.01130	(09022304)	609454.09

4202052.70	0.01114	(11011324)		
609469.09	4202052.70	0.01052	(09120624)	609484.09
4202052.70	0.01031	(10011219)		
609499.09	4202052.70	0.00976	(11123024)	609514.09
4202052.70	0.00932	(09010206)		
609529.09	4202052.70	0.00864	(13022722)	609544.09
4202052.70	0.00854	(13012505)		
609559.09	4202052.70	0.00816	(13012505)	609574.09
4202052.70	0.00765	(09122007)		
609589.09	4202052.70	0.00746	(09122007)	609604.09
4202052.70	0.00718	(10120324)		
609619.09	4202052.70	0.00679	(10120324)	609634.09
4202052.70	0.00652	(12022704)		
609649.09	4202052.70	0.00622	(12022704)	609664.09
4202052.70	0.00595	(10121903)		
609679.09	4202052.70	0.00566	(10121903)	609694.09
4202052.70	0.00534	(10121903)		
609004.09	4202067.70	0.00726	(10020504)	609019.09
4202067.70	0.00756	(10020504)		
609034.09	4202067.70	0.00775	(10020504)	609049.09
4202067.70	0.00783	(10011620)		
609064.09	4202067.70	0.00800	(10011620)	609079.09
4202067.70	0.00801	(10011620)		
609094.09	4202067.70	0.00805	(10011203)	609109.09
4202067.70	0.00843	(10011203)		
609124.09	4202067.70	0.00883	(10011708)	609139.09
4202067.70	0.00927	(10020603)		
609154.09	4202067.70	0.00972	(09020508)	609169.09
4202067.70	0.01026	(10121405)		
609184.09	4202067.70	0.01069	(10020602)	609199.09
4202067.70	0.01121	(10121905)		
609214.09	4202067.70	0.01157	(10122508)	609229.09
4202067.70	0.01214	(10011607)		
609244.09	4202067.70	0.01253	(11010301)	609259.09
4202067.70	0.01292	(09123119)		
609274.09	4202067.70	0.01322	(10010301)	609289.09
4202067.70	0.01367	(09012222)		
609304.09	4202067.70	0.01379	(10010720)	609319.09
4202067.70	0.01374	(12020204)		
609334.09	4202067.70	0.01363	(12010420)	609349.09
4202067.70	0.01391	(09012323)		
609364.09	4202067.70	0.01366	(09012120)	609409.09
4202067.70	0.01322	(12120619)		
609424.09	4202067.70	0.01279	(10121002)	609439.09
4202067.70	0.01240	(09022304)		
609454.09	4202067.70	0.01177	(09120624)	609469.09
4202067.70	0.01145	(10011219)		
609484.09	4202067.70	0.01078	(11123024)	609499.09
4202067.70	0.01030	(09010206)		
609514.09	4202067.70	0.00954	(13012505)	609529.09

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4202067.70      0.00938 (13012505)
      609544.09  4202067.70      0.00888 (13012505)      609559.09
4202067.70      0.00841 (09122007)
      609574.09  4202067.70      0.00811 (10120324)      609589.09
4202067.70      0.00774 (10120324)
      609604.09  4202067.70      0.00732 (12022704)      609619.09
4202067.70      0.00699 (12022704)
      609634.09  4202067.70      0.00665 (10121903)      609649.09
4202067.70      0.00632 (10121903)
      609664.09  4202067.70      0.00594 (10121903)      609679.09
4202067.70      0.00554 (11011122)
      609694.09  4202067.70      0.00533 (11011122)      609709.09
4202067.70      0.00509 (11011122)
      609004.09  4202082.70      0.00718 (10021222)      609019.09
4202082.70      0.00758 (10020504)

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^ *** AERMOD - VERSION 2112 ***      *** C:\Lakes\AERMOD
View\5200LoneTree_TruckOperation\5200LoneTree_TruckO ***      10/25/21
*** AERMET - VERSION 14134 ***      ***
***      ***      11:05:39

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

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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
      INCLUDING SOURCE(S):      L0000001      , L0000002
, L0000003      , L0000004      , L0000005      ,
      L0000006      , L0000007      , L0000008      , L0000009      , L0000010
, L0000011      , L0000012      , L0000013      ,
      L0000014      , L0000015      , L0000016      , L0000017      , L0000018
, L0000019      , L0000020      , L0000021      ,
      L0000022      , L0000023      , L0000024      , L0000025      , L0000026
, L0000027      , L0000028      , . . .      ,

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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

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\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

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      X-COORD (M)  Y-COORD (M)      CONC      (YYMMDDHH)      X-COORD (M)
Y-COORD (M)      CONC      (YYMMDDHH)
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      609034.09  4202082.70      0.00804 (10020504)      609049.09
4202082.70      0.00840 (10020504)
      609064.09  4202082.70      0.00865 (10020504)      609079.09
4202082.70      0.00879 (10011620)
      609094.09  4202082.70      0.00893 (10011620)      609109.09
4202082.70      0.00885 (10011620)

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609124.09	4202082.70	0.00924	(10011203)	609139.09
4202082.70	0.00969	(10011708)		
609154.09	4202082.70	0.01025	(10020603)	609169.09
4202082.70	0.01077	(09020508)		
609184.09	4202082.70	0.01138	(10121405)	609199.09
4202082.70	0.01188	(10121905)		
609214.09	4202082.70	0.01247	(10121905)	609229.09
4202082.70	0.01294	(09013019)		
609244.09	4202082.70	0.01369	(11010301)	609259.09
4202082.70	0.01405	(12020820)		
609274.09	4202082.70	0.01450	(09123119)	609289.09
4202082.70	0.01489	(09012222)		
609304.09	4202082.70	0.01513	(10010720)	609319.09
4202082.70	0.01500	(12020204)		
609334.09	4202082.70	0.01493	(12010420)	609349.09
4202082.70	0.01518	(09012323)		
609364.09	4202082.70	0.01504	(09012120)	609409.09
4202082.70	0.01439	(10121002)		
609424.09	4202082.70	0.01373	(09022304)	609439.09
4202082.70	0.01336	(11011324)		
609454.09	4202082.70	0.01277	(10011219)	609469.09
4202082.70	0.01207	(10011219)		
609484.09	4202082.70	0.01147	(11123024)	609499.09
4202082.70	0.01063	(13012505)		
609514.09	4202082.70	0.01037	(13012505)	609529.09
4202082.70	0.00970	(13012505)		
609544.09	4202082.70	0.00927	(09122007)	609559.09
4202082.70	0.00887	(10120324)		
609574.09	4202082.70	0.00833	(10120324)	609589.09
4202082.70	0.00794	(12022704)		
609604.09	4202082.70	0.00750	(10121903)	609619.09
4202082.70	0.00712	(10121903)		
609634.09	4202082.70	0.00668	(10121903)	609649.09
4202082.70	0.00619	(10121903)		
609664.09	4202082.70	0.00593	(11011122)	609679.09
4202082.70	0.00563	(11011122)		
609694.09	4202082.70	0.00532	(12121308)	609709.09
4202082.70	0.00517	(12121308)		
609004.09	4202097.70	0.00729	(10021223)	609019.09
4202097.70	0.00760	(10021222)		
609034.09	4202097.70	0.00798	(10021222)	609049.09
4202097.70	0.00848	(10020504)		
609064.09	4202097.70	0.00904	(10020504)	609079.09
4202097.70	0.00948	(10020504)		
609094.09	4202097.70	0.00977	(10020504)	609109.09
4202097.70	0.00994	(10011620)		
609124.09	4202097.70	0.01008	(10011620)	609139.09
4202097.70	0.01017	(10011203)		
609154.09	4202097.70	0.01068	(10011203)	609169.09
4202097.70	0.01136	(10020603)		

609184.09	4202097.70	0.01201	(09020508)	609199.09
4202097.70	0.01276	(10121405)		
609214.09	4202097.70	0.01347	(10121905)	609229.09
4202097.70	0.01412	(10122508)		
609244.09	4202097.70	0.01478	(10011607)	609259.09
4202097.70	0.01540	(11010301)		
609274.09	4202097.70	0.01595	(09123119)	609289.09
4202097.70	0.01616	(10010301)		
609304.09	4202097.70	0.01658	(10010720)	609319.09
4202097.70	0.01645	(12020204)		
609334.09	4202097.70	0.01644	(12010420)	609349.09
4202097.70	0.01666	(09012323)		
609364.09	4202097.70	0.01660	(09012120)	609409.09
4202097.70	0.01572	(10121002)		
609424.09	4202097.70	0.01517	(09022304)	609439.09
4202097.70	0.01430	(10011219)		
609454.09	4202097.70	0.01372	(10011219)	609469.09
4202097.70	0.01291	(11123024)		
609484.09	4202097.70	0.01194	(13012505)	609499.09
4202097.70	0.01154	(13012505)		
609514.09	4202097.70	0.01066	(13012505)	609529.09
4202097.70	0.01024	(09122007)		
609544.09	4202097.70	0.00970	(10120324)	609559.09
4202097.70	0.00911	(12022704)		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_TruckOperation\5200LoneTree\_TruckO \*\*\* 10/25/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): L0000001 , L0000002  
 , L0000003 , L0000004 , L0000005 ,  
 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010  
 , L0000011 , L0000012 , L0000013 ,  
 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018  
 , L0000019 , L0000020 , L0000021 ,  
 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026  
 , L0000027 , L0000028 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

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

Y-COORD (M)	CONC	(YYMMDDHH)	
609574.09	4202097.70	0.00858	(12022704) 609589.09
4202097.70	0.00811	(10121903)	
609604.09	4202097.70	0.00758	(10121903) 609619.09
4202097.70	0.00700	(10121903)	
609634.09	4202097.70	0.00665	(11011122) 609649.09
4202097.70	0.00629	(11011122)	
609664.09	4202097.70	0.00596	(12121308) 609679.09
4202097.70	0.00576	(12121308)	
609694.09	4202097.70	0.00553	(11011323) 609709.09
4202097.70	0.00537	(11011323)	
609724.09	4202097.70	0.00518	(11011323) 608989.09
4202112.70	0.00719	(10122201)	
609004.09	4202112.70	0.00754	(10122201) 609019.09
4202112.70	0.00784	(10122201)	
609034.09	4202112.70	0.00816	(10021223) 609049.09
4202112.70	0.00849	(10021222)	
609064.09	4202112.70	0.00899	(10021222) 609079.09
4202112.70	0.00961	(10020504)	
609094.09	4202112.70	0.01029	(10020504) 609109.09
4202112.70	0.01083	(10020504)	
609124.09	4202112.70	0.01117	(10020504) 609139.09
4202112.70	0.01140	(10011620)	
609154.09	4202112.70	0.01146	(10011620) 609169.09
4202112.70	0.01193	(10011203)	
609184.09	4202112.70	0.01270	(10020603) 609199.09
4202112.70	0.01359	(09020508)	
609214.09	4202112.70	0.01451	(10121405) 609229.09
4202112.70	0.01540	(10121905)	
609244.09	4202112.70	0.01610	(10122508) 609259.09
4202112.70	0.01692	(11010301)	
609274.09	4202112.70	0.01748	(13121217) 609289.09
4202112.70	0.01795	(10010301)	
609304.09	4202112.70	0.01837	(09012222) 609319.09
4202112.70	0.01815	(12020204)	
609334.09	4202112.70	0.01825	(13022419) 609349.09
4202112.70	0.01839	(09012323)	
609364.09	4202112.70	0.01839	(09012120) 609379.09
4202112.70	0.01819	(12012619)	
609409.09	4202112.70	0.01720	(09022304) 609424.09
4202112.70	0.01645	(11011324)	
609439.09	4202112.70	0.01574	(10011219) 609454.09
4202112.70	0.01470	(11123024)	
609469.09	4202112.70	0.01357	(13012505) 609484.09
4202112.70	0.01295	(13012505)	
609499.09	4202112.70	0.01199	(09122007) 609514.09
4202112.70	0.01140	(10120324)	
609529.09	4202112.70	0.01060	(10120324) 609544.09

4202112.70	0.00998	(12022704)		
609559.09	4202112.70	0.00936	(10121903)	609574.09
4202112.70	0.00872	(10121903)		
609589.09	4202112.70	0.00801	(10121903)	609604.09
4202112.70	0.00755	(11011122)		
609619.09	4202112.70	0.00708	(11011122)	609634.09
4202112.70	0.00674	(12121308)		
609649.09	4202112.70	0.00646	(12121308)	609664.09
4202112.70	0.00623	(11011323)		
609679.09	4202112.70	0.00599	(11011323)	609694.09
4202112.70	0.00574	(11011323)		
609709.09	4202112.70	0.00547	(11011323)	609724.09
4202112.70	0.00523	(12013024)		
608989.09	4202127.70	0.00735	(10020824)	609004.09
4202127.70	0.00767	(13012320)		
609019.09	4202127.70	0.00801	(13012320)	609034.09
4202127.70	0.00838	(10122201)		
609049.09	4202127.70	0.00881	(10122201)	609064.09
4202127.70	0.00920	(10021223)		
609079.09	4202127.70	0.00960	(10021223)	609094.09
4202127.70	0.01020	(10021222)		
609109.09	4202127.70	0.01098	(10020504)	609124.09
4202127.70	0.01183	(10020504)		
609139.09	4202127.70	0.01250	(10020504)	609154.09
4202127.70	0.01294	(10020504)		
609169.09	4202127.70	0.01322	(10011620)	609184.09
4202127.70	0.01345	(10011203)		
609199.09	4202127.70	0.01441	(10011708)	609214.09
4202127.70	0.01549	(09020508)		
609229.09	4202127.70	0.01665	(10121405)	609244.09
4202127.70	0.01777	(10121905)		
609259.09	4202127.70	0.01857	(09121818)	609274.09
4202127.70	0.01949	(11010301)		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_TruckOperation\5200LoneTree\_TruckO \*\*\* 10/25/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
 \*\*\* 11:05:39

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 \*\*\*  
 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000001 , L0000002  
 , L0000003 , L0000004 , L0000005 ,  
 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010  
 , L0000011 , L0000012 , L0000013 ,  
 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018  
 , L0000019 , L0000020 , L0000021 ,  
 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026



, L0000027 , L0000028 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609289.09	4202127.70	0.02013	(09123119)	609304.09
4202127.70	0.02047	(09012222)		
609319.09	4202127.70	0.02032	(10010720)	609334.09
4202127.70	0.02042	(13022419)		
609349.09	4202127.70	0.02045	(09012323)	609364.09
4202127.70	0.02050	(09012120)		
609379.09	4202127.70	0.02025	(09122003)	609409.09
4202127.70	0.01925	(11011324)		
609424.09	4202127.70	0.01828	(10011219)	609439.09
4202127.70	0.01699	(11123024)		
609454.09	4202127.70	0.01562	(13012505)	609469.09
4202127.70	0.01467	(13012505)		
609484.09	4202127.70	0.01361	(09122007)	609499.09
4202127.70	0.01273	(10120324)		
609514.09	4202127.70	0.01180	(12022704)	609529.09
4202127.70	0.01098	(10121903)		
609544.09	4202127.70	0.01018	(10121903)	609559.09
4202127.70	0.00929	(10121903)		
609574.09	4202127.70	0.00867	(11011122)	609589.09
4202127.70	0.00807	(11011122)		
609604.09	4202127.70	0.00770	(12121308)	609619.09
4202127.70	0.00736	(11011323)		
609634.09	4202127.70	0.00705	(11011323)	609649.09
4202127.70	0.00672	(11011323)		
609664.09	4202127.70	0.00638	(11011323)	609679.09
4202127.70	0.00607	(12013024)		
609694.09	4202127.70	0.00580	(12013024)	609709.09
4202127.70	0.00557	(10121022)		
609724.09	4202127.70	0.00536	(10121022)	608974.09
4202142.70	0.00715	(09123103)		
608989.09	4202142.70	0.00743	(10122106)	609004.09
4202142.70	0.00776	(13010602)		
609019.09	4202142.70	0.00812	(13010602)	609034.09
4202142.70	0.00853	(10020824)		
609049.09	4202142.70	0.00897	(13012320)	609064.09
4202142.70	0.00942	(13012320)		
609079.09	4202142.70	0.00994	(10122201)	609094.09
4202142.70	0.01048	(10122201)		

609109.09	4202142.70	0.01103	(10021223)	609124.09
4202142.70	0.01170	(10021222)		
609139.09	4202142.70	0.01272	(10020504)	609154.09
4202142.70	0.01385	(10020504)		
609169.09	4202142.70	0.01479	(10020504)	609184.09
4202142.70	0.01539	(10020504)		
609199.09	4202142.70	0.01571	(10011620)	609214.09
4202142.70	0.01644	(10011203)		
609229.09	4202142.70	0.01788	(09020508)	609244.09
4202142.70	0.01943	(10121405)		
609259.09	4202142.70	0.02080	(10121905)	609274.09
4202142.70	0.02193	(09121818)		
609289.09	4202142.70	0.02271	(09123119)	609304.09
4202142.70	0.02296	(09012222)		
609319.09	4202142.70	0.02300	(12123120)	609334.09
4202142.70	0.02304	(13022419)		
609349.09	4202142.70	0.02297	(09012323)	609364.09
4202142.70	0.02320	(10021118)		
609379.09	4202142.70	0.02309	(12120619)	609409.09
4202142.70	0.02148	(10011219)		
609424.09	4202142.70	0.02001	(11123024)	609439.09
4202142.70	0.01829	(13012505)		
609454.09	4202142.70	0.01682	(13012505)	609469.09
4202142.70	0.01557	(10120324)		
609484.09	4202142.70	0.01425	(12022704)	609499.09
4202142.70	0.01314	(10121903)		
609514.09	4202142.70	0.01211	(10121903)	609529.09
4202142.70	0.01096	(10121903)		
609544.09	4202142.70	0.01012	(11011122)	609559.09
4202142.70	0.00940	(12121308)		
609574.09	4202142.70	0.00891	(12022118)	609589.09
4202142.70	0.00849	(11011323)		
609604.09	4202142.70	0.00804	(11011323)	609619.09
4202142.70	0.00758	(11011323)		
609634.09	4202142.70	0.00717	(12013024)	609649.09
4202142.70	0.00680	(12012321)		
609664.09	4202142.70	0.00651	(10121022)	609679.09
4202142.70	0.00623	(10121022)		
609694.09	4202142.70	0.00594	(10121022)	609709.09
4202142.70	0.00566	(10121022)		
609724.09	4202142.70	0.00540	(13012506)	608974.09
4202157.70	0.00725	(12012005)		

\*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_TruckOperation\5200LoneTree\_TruckO \*\*\* 10/25/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
 \*\*\* 11:05:39

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

   INCLUDING SOURCE(S):      L0000001      ,      L0000002

    , L0000003      , L0000004      , L0000005      ,

   L0000006      , L0000007      , L0000008      , L0000009      , L0000010

    , L0000011      , L0000012      , L0000013      ,

   L0000014      , L0000015      , L0000016      , L0000017      , L0000018

    , L0000019      , L0000020      , L0000021      ,

   L0000022      , L0000023      , L0000024      , L0000025      , L0000026

    , L0000027      , L0000028      , . . .      ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
608989.09	4202157.70	0.00757	(10010205)	609004.09
4202157.70	0.00792	(10010205)		
609019.09	4202157.70	0.00826	(09123103)	609034.09
4202157.70	0.00865	(09123103)		
609049.09	4202157.70	0.00907	(10122106)	609064.09
4202157.70	0.00956	(13010602)		
609079.09	4202157.70	0.01012	(12120523)	609094.09
4202157.70	0.01071	(13012320)		
609109.09	4202157.70	0.01133	(13012320)	609124.09
4202157.70	0.01206	(10122201)		
609139.09	4202157.70	0.01280	(10021223)	609154.09
4202157.70	0.01366	(10021222)		
609169.09	4202157.70	0.01512	(10020504)	609184.09
4202157.70	0.01662	(10020504)		
609199.09	4202157.70	0.01788	(10020504)	609214.09
4202157.70	0.01876	(10020504)		
609229.09	4202157.70	0.01919	(10011203)	609244.09
4202157.70	0.02109	(10020603)		
609259.09	4202157.70	0.02324	(10121405)	609274.09
4202157.70	0.02500	(11020623)		
609289.09	4202157.70	0.02611	(12020820)	609304.09
4202157.70	0.02630	(13122120)		
609319.09	4202157.70	0.02634	(12123120)	609334.09
4202157.70	0.02629	(13022419)		
609349.09	4202157.70	0.02612	(12010420)	609364.09
4202157.70	0.02656	(10021118)		
609379.09	4202157.70	0.02661	(10121002)	609409.09
4202157.70	0.02400	(11123024)		
609424.09	4202157.70	0.02180	(13012505)	609439.09

4202157.70	0.01967	(09122007)		
609454.09	4202157.70	0.01796	(10120324)	609469.09
4202157.70	0.01624	(12022704)		
609484.09	4202157.70	0.01478	(10121903)	609499.09
4202157.70	0.01323	(10121903)		
609514.09	4202157.70	0.01203	(11011122)	609529.09
4202157.70	0.01117	(12022118)		
609544.09	4202157.70	0.01052	(11011323)	609559.09
4202157.70	0.00989	(11011323)		
609574.09	4202157.70	0.00925	(11011323)	609589.09
4202157.70	0.00866	(12013024)		
609604.09	4202157.70	0.00818	(10121022)	609619.09
4202157.70	0.00777	(10121022)		
609634.09	4202157.70	0.00736	(10121022)	609649.09
4202157.70	0.00696	(10121022)		
609664.09	4202157.70	0.00658	(13012506)	609679.09
4202157.70	0.00624	(13012506)		
609694.09	4202157.70	0.00592	(13012506)	609709.09
4202157.70	0.00564	(09010202)		
609724.09	4202157.70	0.00542	(09010202)	608959.09
4202172.70	0.00701	(12012524)		
608974.09	4202172.70	0.00731	(10120218)	608989.09
4202172.70	0.00763	(12011923)		
609004.09	4202172.70	0.00800	(12011923)	609019.09
4202172.70	0.00836	(12012005)		
609034.09	4202172.70	0.00879	(12012005)	609049.09
4202172.70	0.00924	(12012005)		
609064.09	4202172.70	0.00974	(10010205)	609079.09
4202172.70	0.01027	(09123103)		
609094.09	4202172.70	0.01086	(09123103)	609109.09
4202172.70	0.01150	(13010602)		
609124.09	4202172.70	0.01228	(12120523)	609139.09
4202172.70	0.01311	(13012320)		
609154.09	4202172.70	0.01408	(13012320)	609169.09
4202172.70	0.01525	(10122201)		
609184.09	4202172.70	0.01643	(10021223)	609199.09
4202172.70	0.01830	(10020504)		
609214.09	4202172.70	0.02042	(10020504)	609229.09
4202172.70	0.02242	(10020504)		
609244.09	4202172.70	0.02403	(10020504)	609259.09
4202172.70	0.02557	(10020603)		
609274.09	4202172.70	0.02874	(10121405)	609289.09
4202172.70	0.03071	(09121818)		
609304.09	4202172.70	0.03055	(09123119)	609319.09
4202172.70	0.03025	(12123120)		
609334.09	4202172.70	0.03007	(13022419)	609349.09
4202172.70	0.03017	(10021118)		
609364.09	4202172.70	0.03057	(10021118)	609379.09
4202172.70	0.03104	(10020207)		
609424.09	4202172.70	0.02342	(10120324)	609439.09

4202172.70 0.02091 (10020321)  
 \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_TruckOperation\5200LoneTree\_TruckO \*\*\* 10/25/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
 \*\*\* 11:05:39

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): L0000001 , L0000002  
 , L0000003 , L0000004 , L0000005 ,  
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010  
 , L0000011 , L0000012 , L0000013 ,  
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018  
 , L0000019 , L0000020 , L0000021 ,  
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026  
 , L0000027 , L0000028 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609454.09	4202172.70	0.01866	(10121903)	609469.09
4202172.70	0.01642	(10121903)		
609484.09	4202172.70	0.01468	(12022118)	609499.09
4202172.70	0.01360	(12022118)		
609514.09	4202172.70	0.01262	(11011323)	609529.09
4202172.70	0.01165	(11011323)		
609544.09	4202172.70	0.01079	(12013024)	609559.09
4202172.70	0.01011	(10121022)		
609574.09	4202172.70	0.00948	(10121022)	609589.09
4202172.70	0.00887	(10121022)		
609604.09	4202172.70	0.00831	(13012506)	609619.09
4202172.70	0.00780	(13012506)		
609634.09	4202172.70	0.00732	(09010202)	609649.09
4202172.70	0.00696	(09010202)		
609664.09	4202172.70	0.00663	(09010202)	609679.09
4202172.70	0.00630	(09010202)		
609694.09	4202172.70	0.00600	(09010202)	609709.09
4202172.70	0.00571	(09010202)		
609724.09	4202172.70	0.00543	(09010202)	608959.09
4202187.70	0.00705	(09122008)		

608974.09	4202187.70	0.00737	(09122008)	608989.09
4202187.70	0.00771 (12012524)			
609004.09	4202187.70	0.00809	(12012524)	609019.09
4202187.70	0.00848 (12012524)			
609034.09	4202187.70	0.00889	(12012524)	609049.09
4202187.70	0.00932 (10120218)			
609064.09	4202187.70	0.00983	(10120218)	609079.09
4202187.70	0.01039 (12011923)			
609094.09	4202187.70	0.01102	(12012005)	609109.09
4202187.70	0.01172 (12012005)			
609124.09	4202187.70	0.01248	(10010205)	609139.09
4202187.70	0.01331 (09123103)			
609154.09	4202187.70	0.01430	(09123103)	609169.09
4202187.70	0.01550 (12120523)			
609184.09	4202187.70	0.01686	(12120523)	609199.09
4202187.70	0.01832 (13012320)			
609214.09	4202187.70	0.02010	(10122201)	609229.09
4202187.70	0.02281 (10020504)			
609244.09	4202187.70	0.02616	(10020504)	609259.09
4202187.70	0.02989 (10020504)			
609274.09	4202187.70	0.03346	(10020504)	609424.09
4202187.70	0.02421 (12123118)			
609439.09	4202187.70	0.02095	(10021519)	609454.09
4202187.70	0.01877 (12022118)			
609469.09	4202187.70	0.01697	(11011323)	609484.09
4202187.70	0.01537 (11011323)			
609499.09	4202187.70	0.01403	(10121022)	609514.09
4202187.70	0.01294 (10121022)			
609529.09	4202187.70	0.01193	(10121022)	609544.09
4202187.70	0.01099 (13012506)			
609559.09	4202187.70	0.01017	(13012506)	609574.09
4202187.70	0.00948 (09010202)			
609589.09	4202187.70	0.00890	(09010202)	609604.09
4202187.70	0.00836 (09010202)			
609619.09	4202187.70	0.00786	(09010202)	609634.09
4202187.70	0.00739 (09010202)			
609649.09	4202187.70	0.00695	(09010202)	609664.09
4202187.70	0.00657 (11120401)			
609679.09	4202187.70	0.00626	(11120401)	609694.09
4202187.70	0.00597 (11021923)			
609709.09	4202187.70	0.00573	(11021923)	609724.09
4202187.70	0.00550 (11021923)			
608959.09	4202202.70	0.00712	(09020523)	608974.09
4202202.70	0.00743 (09021723)			
608989.09	4202202.70	0.00777	(09021723)	609004.09
4202202.70	0.00813 (09021723)			
609019.09	4202202.70	0.00852	(09021723)	609034.09
4202202.70	0.00893 (11121204)			
609049.09	4202202.70	0.00938	(11121204)	609064.09
4202202.70	0.00988 (09122008)			

609079.09	4202202.70	0.01045	(09122008)	609094.09
4202202.70	0.01110	(12012524)		
609109.09	4202202.70	0.01182	(12012524)	609124.09
4202202.70	0.01259	(12012524)		
609139.09	4202202.70	0.01345	(10120218)	609154.09
4202202.70	0.01446	(12011923)		
609169.09	4202202.70	0.01570	(12012005)	609184.09
4202202.70	0.01703	(10010205)		
609199.09	4202202.70	0.01853	(10010205)	609214.09
4202202.70	0.02037	(10120918)		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_TruckOperation\5200LoneTree\_TruckO \*\*\* 10/25/21  
 \*\*\* AERMET - VERSION 14134 \*\*\* \*\*\*  
 \*\*\* 11:05:39

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): L0000001 , L0000002  
 , L0000003 , L0000004 , L0000005 ,  
 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010  
 , L0000011 , L0000012 , L0000013 ,  
 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018  
 , L0000019 , L0000020 , L0000021 ,  
 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026  
 , L0000027 , L0000028 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609229.09	4202202.70	0.02252	(12120523)	609244.09
4202202.70	0.02518	(13021421)		
609259.09	4202202.70	0.02971	(10020504)	609274.09
4202202.70	0.03480	(10020504)		
609424.09	4202202.70	0.02423	(12022118)	609439.09
4202202.70	0.02121	(10121022)		
609454.09	4202202.70	0.01912	(10121022)	609469.09
4202202.70	0.01729	(10121022)		
609484.09	4202202.70	0.01559	(10021219)	609499.09
4202202.70	0.01411	(09010202)		
609514.09	4202202.70	0.01296	(09010202)	609529.09

4202202.70	0.01193	(09010202)		
609544.09	4202202.70	0.01100	(09010202)	609559.09
4202202.70	0.01017	(09010202)		
609574.09	4202202.70	0.00947	(11120401)	609589.09
4202202.70	0.00889	(11021923)		
609604.09	4202202.70	0.00839	(11021923)	609619.09
4202202.70	0.00794	(11021923)		
609634.09	4202202.70	0.00751	(11021923)	609649.09
4202202.70	0.00711	(11021923)		
609664.09	4202202.70	0.00677	(11021923)	609679.09
4202202.70	0.00645	(11021923)		
609694.09	4202202.70	0.00615	(11021923)	609709.09
4202202.70	0.00587	(11021923)		
609724.09	4202202.70	0.00562	(12121606)	608959.09
4202217.70	0.00724	(12120423)		
608974.09	4202217.70	0.00755	(12120423)	608989.09
4202217.70	0.00788	(12120423)		
609004.09	4202217.70	0.00824	(12120423)	609019.09
4202217.70	0.00862	(12120423)		
609034.09	4202217.70	0.00903	(12120423)	609049.09
4202217.70	0.00947	(12120423)		
609064.09	4202217.70	0.00997	(09020523)	609079.09
4202217.70	0.01053	(09020523)		
609094.09	4202217.70	0.01115	(10120920)	609109.09
4202217.70	0.01184	(10120920)		
609124.09	4202217.70	0.01259	(10120920)	609139.09
4202217.70	0.01344	(09021723)		
609154.09	4202217.70	0.01446	(09021723)	609169.09
4202217.70	0.01567	(11121204)		
609184.09	4202217.70	0.01704	(12012524)	609199.09
4202217.70	0.01857	(12012524)		
609214.09	4202217.70	0.02035	(10120218)	609229.09
4202217.70	0.02247	(12011119)		
609244.09	4202217.70	0.02511	(10022522)	609259.09
4202217.70	0.02843	(10120918)		
609274.09	4202217.70	0.03348	(10020504)	609424.09
4202217.70	0.02400	(10021418)		
609439.09	4202217.70	0.02113	(12013002)	609454.09
4202217.70	0.01890	(11120401)		
609469.09	4202217.70	0.01709	(11120401)	609484.09
4202217.70	0.01553	(11011518)		
609499.09	4202217.70	0.01421	(11021923)	609514.09
4202217.70	0.01306	(11021923)		
609529.09	4202217.70	0.01205	(11021923)	609544.09
4202217.70	0.01116	(11021923)		
609559.09	4202217.70	0.01038	(12121606)	609574.09
4202217.70	0.00970	(12121606)		
609589.09	4202217.70	0.00909	(12121606)	609604.09
4202217.70	0.00853	(12121606)		
609619.09	4202217.70	0.00805	(12013101)	609634.09



4202217.70	0.00762	(12013101)		
609649.09	4202217.70	0.00722	(12013101)	609664.09
4202217.70	0.00688	(12013101)		
609679.09	4202217.70	0.00656	(12013101)	609694.09
4202217.70	0.00626	(12013101)		
609709.09	4202217.70	0.00599	(12013101)	609724.09
4202217.70	0.00574	(12013101)		
608959.09	4202232.70	0.00726	(10121319)	608974.09
4202232.70	0.00756	(10121319)		
608989.09	4202232.70	0.00789	(10121319)	609004.09
4202232.70	0.00825	(10121319)		
609019.09	4202232.70	0.00864	(10121319)	609034.09
4202232.70	0.00906	(12120423)		
609049.09	4202232.70	0.00953	(12120423)	609064.09
4202232.70	0.01004	(12120423)		
609079.09	4202232.70	0.01057	(12120423)	609094.09
4202232.70	0.01118	(12120423)		
609109.09	4202232.70	0.01187	(12120423)	609124.09
4202232.70	0.01265	(12120423)		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_TruckOperation\5200LoneTree\_Truck0 \*\*\* 10/25/21  
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 \*\*\* 11:05:39

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 \*\*\*  
 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000001 , L0000002  
 , L0000003 , L0000004 , L0000005 ,  
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010  
 , L0000011 , L0000012 , L0000013 ,  
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018  
 , L0000019 , L0000020 , L0000021 ,  
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026  
 , L0000027 , L0000028 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609139.09	4202232.70	0.01351	(12120423)	609154.09
4202232.70	0.01454	(12120423)		

609169.09	4202232.70	0.01574	(12120423)	609184.09
4202232.70	0.01705	(12120423)		
609199.09	4202232.70	0.01850	(12120423)	609214.09
4202232.70	0.02020	(12120423)		
609229.09	4202232.70	0.02227	(11020419)	609244.09
4202232.70	0.02483	(13022823)		
609259.09	4202232.70	0.02808	(12011119)	609274.09
4202232.70	0.03156	(13122220)		
609424.09	4202232.70	0.02390	(11011518)	609439.09
4202232.70	0.02113	(11011518)		
609454.09	4202232.70	0.01891	(12013101)	609469.09
4202232.70	0.01711	(12013101)		
609484.09	4202232.70	0.01563	(12013101)	609499.09
4202232.70	0.01434	(12013101)		
609514.09	4202232.70	0.01317	(12013101)	609529.09
4202232.70	0.01215	(12013101)		
609544.09	4202232.70	0.01125	(12013101)	609559.09
4202232.70	0.01047	(12013101)		
609574.09	4202232.70	0.00978	(12013101)	609589.09
4202232.70	0.00917	(12013101)		
609604.09	4202232.70	0.00861	(12013101)	609619.09
4202232.70	0.00811	(12013101)		
609634.09	4202232.70	0.00766	(12013101)	609649.09
4202232.70	0.00727	(12013101)		
609664.09	4202232.70	0.00691	(12013101)	609679.09
4202232.70	0.00659	(12013101)		
609694.09	4202232.70	0.00629	(12013101)	609709.09
4202232.70	0.00601	(12013101)		
609724.09	4202232.70	0.00577	(12013101)	608959.09
4202247.70	0.00731	(10021321)		
608974.09	4202247.70	0.00760	(10021321)	608989.09
4202247.70	0.00792	(10021321)		
609004.09	4202247.70	0.00825	(10021321)	609019.09
4202247.70	0.00862	(10021321)		
609034.09	4202247.70	0.00902	(10021321)	609049.09
4202247.70	0.00947	(10022622)		
609064.09	4202247.70	0.00996	(10021206)	609079.09
4202247.70	0.01047	(10021206)		
609094.09	4202247.70	0.01106	(10021206)	609109.09
4202247.70	0.01174	(10021206)		
609124.09	4202247.70	0.01248	(10021206)	609139.09
4202247.70	0.01331	(10021206)		
609154.09	4202247.70	0.01429	(10021206)	609169.09
4202247.70	0.01541	(10021206)		
609184.09	4202247.70	0.01669	(10021206)	609199.09
4202247.70	0.01816	(10022622)		
609214.09	4202247.70	0.01988	(10022622)	609229.09
4202247.70	0.02195	(10021321)		
609244.09	4202247.70	0.02450	(10021321)	609259.09
4202247.70	0.02767	(11020419)		

609274.09	4202247.70	0.03102	(11020419)	609424.09
4202247.70	0.02343	(10011218)		
609439.09	4202247.70	0.02080	(10011218)	609454.09
4202247.70	0.01862	(10011218)		
609469.09	4202247.70	0.01680	(10011218)	609484.09
4202247.70	0.01532	(12121805)		
609499.09	4202247.70	0.01407	(12121805)	609514.09
4202247.70	0.01296	(12121805)		
609529.09	4202247.70	0.01199	(12121805)	609544.09
4202247.70	0.01115	(12121805)		
609559.09	4202247.70	0.01042	(12121805)	609574.09
4202247.70	0.00976	(12121805)		
609589.09	4202247.70	0.00918	(12121805)	609604.09
4202247.70	0.00865	(12121805)		
609619.09	4202247.70	0.00817	(12121805)	609634.09
4202247.70	0.00774	(12121805)		
609649.09	4202247.70	0.00736	(12121805)	609664.09
4202247.70	0.00702	(12121805)		
609679.09	4202247.70	0.00670	(12121805)	609694.09
4202247.70	0.00641	(12121805)		
609709.09	4202247.70	0.00613	(12121805)	609724.09
4202247.70	0.00589	(12121805)		
608959.09	4202262.70	0.00780	(10021206)	608974.09
4202262.70	0.00808	(10021206)		
608989.09	4202262.70	0.00840	(10021206)	609004.09
4202262.70	0.00872	(10021206)		
609019.09	4202262.70	0.00906	(10021206)	609034.09
4202262.70	0.00944	(10021206)		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs: RegDFault CONC ELEV URBAN

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): L000001 , L000002  
 , L000003 , L000004 , L000005 ,  
 , L000006 , L000007 , L000008 , L000009 , L000010  
 , L000011 , L000012 , L000013 ,  
 , L000014 , L000015 , L000016 , L000017 , L000018  
 , L000019 , L000020 , L000021 ,  
 , L000022 , L000023 , L000024 , L000025 , L000026  
 , L000027 , L000028 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609049.09	4202262.70	0.00984	(10021206)	609064.09
4202262.70	0.01027	(10021206)		
609079.09	4202262.70	0.01071	(12012004)	609094.09
4202262.70	0.01125	(12012004)		
609109.09	4202262.70	0.01189	(12012004)	609124.09
4202262.70	0.01257	(12012004)		
609139.09	4202262.70	0.01334	(12012004)	609154.09
4202262.70	0.01423	(09020604)		
609169.09	4202262.70	0.01525	(11123006)	609184.09
4202262.70	0.01653	(11123006)		
609199.09	4202262.70	0.01803	(11123006)	609214.09
4202262.70	0.01970	(11123006)		
609229.09	4202262.70	0.02174	(09011224)	609244.09
4202262.70	0.02426	(12020821)		
609259.09	4202262.70	0.02744	(12020821)	609274.09
4202262.70	0.03104	(13121619)		
609424.09	4202262.70	0.02340	(10012718)	609439.09
4202262.70	0.02075	(10012718)		
609454.09	4202262.70	0.01858	(10012718)	609469.09
4202262.70	0.01676	(10012718)		
609484.09	4202262.70	0.01524	(10011408)	609499.09
4202262.70	0.01403	(10011408)		
609514.09	4202262.70	0.01295	(10011408)	609529.09
4202262.70	0.01202	(10011408)		
609544.09	4202262.70	0.01121	(10011408)	609559.09
4202262.70	0.01049	(10011408)		
609574.09	4202262.70	0.00982	(10011408)	609589.09
4202262.70	0.00921	(10011408)		
609604.09	4202262.70	0.00866	(10011408)	609619.09
4202262.70	0.00819	(10011218)		
609634.09	4202262.70	0.00781	(10011218)	609649.09
4202262.70	0.00747	(10011218)		
609664.09	4202262.70	0.00717	(12121805)	609679.09
4202262.70	0.00688	(12121805)		
609694.09	4202262.70	0.00662	(12121805)	609709.09
4202262.70	0.00637	(12121805)		
609724.09	4202262.70	0.00614	(12121805)	609424.09
4202277.70	0.02324	(13012303)		
609439.09	4202277.70	0.02046	(13012303)	609454.09
4202277.70	0.01822	(11121823)		
609469.09	4202277.70	0.01660	(13120704)	609484.09
4202277.70	0.01494	(13120704)		
609499.09	4202277.70	0.01390	(10012718)	609514.09

4202277.70	0.01302	(10012718)		
609529.09	4202277.70	0.01209	(10012718)	609544.09
4202277.70	0.01139	(10012718)		
609559.09	4202277.70	0.01083	(10011408)	609574.09
4202277.70	0.01018	(10011408)		
609589.09	4202277.70	0.00975	(10011408)	609604.09
4202277.70	0.00919	(10011408)		
609619.09	4202277.70	0.00881	(10011408)	609634.09
4202277.70	0.00849	(10011408)		
609649.09	4202277.70	0.00802	(10011408)	609664.09
4202277.70	0.00774	(10011408)		
609679.09	4202277.70	0.00734	(10011408)	609694.09
4202277.70	0.00708	(10011408)		
609709.09	4202277.70	0.00685	(10011408)	609724.09
4202277.70	0.00650	(10011218)		
609409.09	4202322.70	0.02517	(12120506)	609424.09
4202322.70	0.02285	(09022423)		
609439.09	4202322.70	0.02139	(10020522)	609454.09
4202322.70	0.02013	(10122817)		
609469.09	4202322.70	0.01835	(11123023)	609484.09
4202322.70	0.01693	(11123023)		
609499.09	4202322.70	0.01481	(11123023)	609514.09
4202322.70	0.01349	(12020722)		
609529.09	4202322.70	0.01242	(09012121)	609544.09
4202322.70	0.01183	(11010118)		
609559.09	4202322.70	0.01126	(13012303)	609574.09
4202322.70	0.01060	(11121823)		
609589.09	4202322.70	0.01039	(11121823)	609604.09
4202322.70	0.00982	(11121823)		
609619.09	4202322.70	0.00959	(11121823)	609634.09
4202322.70	0.00933	(11121823)		
609649.09	4202322.70	0.00875	(11121823)	609664.09
4202322.70	0.00853	(09010806)		
609679.09	4202322.70	0.00798	(09010806)	609694.09
4202322.70	0.00780	(09010806)		
609409.09	4202337.70	0.02244	(09022424)	609424.09
4202337.70	0.02119	(10012518)		

▲ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
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\*\*\* MODELOPTs: RegDEFAULT CONC ELEV URBAN

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): L0000001 , L0000002  
 , L0000003 , L0000004 , L0000005 ,  
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010

, L0000011 , L0000012 , L0000013 ,  
 , L0000019 , L0000020 , L0000021 ,  
 , L0000027 , L0000028 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

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

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609439.09	4202337.70	0.01998	(09022423)	609454.09
4202337.70	0.01866	(09122922)		
609469.09	4202337.70	0.01745	(10122817)	609484.09
4202337.70	0.01633	(11123023)		
609499.09	4202337.70	0.01535	(11123023)	609514.09
4202337.70	0.01407	(11123023)		
609529.09	4202337.70	0.01264	(11123023)	609544.09
4202337.70	0.01135	(12020722)		
609559.09	4202337.70	0.01076	(09012121)	609574.09
4202337.70	0.01017	(11010118)		
609589.09	4202337.70	0.00961	(11010118)	609604.09
4202337.70	0.00910	(13012303)		
609619.09	4202337.70	0.00870	(11121823)	609634.09
4202337.70	0.00847	(11121823)		
609649.09	4202337.70	0.00820	(11121823)	609664.09
4202337.70	0.00794	(11121823)		
609679.09	4202337.70	0.00766	(11121823)	609694.09
4202337.70	0.00738	(11121823)		
609709.09	4202337.70	0.00710	(11121823)	609724.09
4202337.70	0.00683	(11121823)		
609409.09	4202352.70	0.02026	(12120608)	609424.09
4202352.70	0.01953	(12120506)		
609439.09	4202352.70	0.01822	(10012518)	609454.09
4202352.70	0.01732	(09022423)		
609469.09	4202352.70	0.01630	(09021721)	609484.09
4202352.70	0.01526	(09122922)		
609499.09	4202352.70	0.01455	(10122817)	609514.09
4202352.70	0.01373	(11123023)		
609529.09	4202352.70	0.01288	(11123023)	609544.09
4202352.70	0.01181	(11123023)		
609559.09	4202352.70	0.01064	(11123023)	609574.09
4202352.70	0.00961	(12020722)		
609589.09	4202352.70	0.00916	(09012121)	609604.09
4202352.70	0.00871	(09012121)		

609619.09	4202352.70	0.00829	(11010118)	609634.09
4202352.70	0.00782	(11010118)		
609649.09	4202352.70	0.00744	(13012303)	609664.09
4202352.70	0.00712	(13012303)		
609679.09	4202352.70	0.00696	(11121823)	609694.09
4202352.70	0.00678	(11121823)		
609709.09	4202352.70	0.00658	(11121823)	609724.09
4202352.70	0.00641	(11121823)		
609409.09	4202367.70	0.01835	(12120608)	609424.09
4202367.70	0.01757	(10021424)		
609439.09	4202367.70	0.01711	(12120506)	609454.09
4202367.70	0.01591	(10012518)		
609469.09	4202367.70	0.01523	(09022423)	609484.09
4202367.70	0.01440	(09021721)		
609499.09	4202367.70	0.01367	(09122922)	609514.09
4202367.70	0.01301	(10122817)		
609529.09	4202367.70	0.01229	(10122817)	609544.09
4202367.70	0.01174	(11123023)		
609559.09	4202367.70	0.01099	(11123023)	609574.09
4202367.70	0.01007	(11123023)		
609589.09	4202367.70	0.00907	(11123023)	609604.09
4202367.70	0.00828	(12020722)		
609619.09	4202367.70	0.00792	(09012121)	609634.09
4202367.70	0.00757	(09012121)		
609649.09	4202367.70	0.00721	(11010118)	609664.09
4202367.70	0.00687	(11010118)		
609679.09	4202367.70	0.00651	(11010118)	609694.09
4202367.70	0.00627	(13012303)		
609709.09	4202367.70	0.00602	(13012303)	609724.09
4202367.70	0.00592	(11121823)		
609394.09	4202382.70	0.01702	(12021206)	609409.09
4202382.70	0.01680	(12021724)		
609424.09	4202382.70	0.01633	(12120608)	609439.09
4202382.70	0.01559	(13020722)		
609454.09	4202382.70	0.01509	(12120506)	609469.09
4202382.70	0.01405	(10012518)		
609484.09	4202382.70	0.01355	(09022423)	609499.09
4202382.70	0.01285	(09022423)		
609514.09	4202382.70	0.01232	(09122922)	609529.09
4202382.70	0.01165	(10122817)		
609544.09	4202382.70	0.01122	(10122817)	609559.09
4202382.70	0.01067	(11123023)		
609574.09	4202382.70	0.01015	(11123023)	609589.09
4202382.70	0.00944	(11123023)		
609604.09	4202382.70	0.00865	(11123023)	609619.09
4202382.70	0.00782	(11123023)		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_TruckOperation\5200LoneTree\_TruckO \*\*\*  
 \*\*\* AERMET - VERSION 14134 \*\*\*

10/25/21

\*\*\* 11:05:39

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): L0000001 , L0000002  
 , L0000003 , L0000004 , L0000005 ,  
 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010  
 , L0000011 , L0000012 , L0000013 ,  
 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018  
 , L0000019 , L0000020 , L0000021 ,  
 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026  
 , L0000027 , L0000028 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609634.09	4202382.70	0.00722	(12020722)	609649.09
4202382.70	0.00694	(12020722)		
609664.09	4202382.70	0.00667	(09012121)	609679.09
4202382.70	0.00639	(11010118)		
609694.09	4202382.70	0.00612	(11010118)	609709.09
4202382.70	0.00584	(11010118)		
609724.09	4202382.70	0.00560	(13012303)	609394.09
4202397.70	0.01556	(11022222)		
609409.09	4202397.70	0.01543	(10020523)	609424.09
4202397.70	0.01497	(10022423)		
609439.09	4202397.70	0.01436	(12120608)	609454.09
4202397.70	0.01397	(09022424)		
609469.09	4202397.70	0.01341	(12120506)	609484.09
4202397.70	0.01253	(13011002)		
609499.09	4202397.70	0.01217	(09022423)	609514.09
4202397.70	0.01164	(09022423)		
609529.09	4202397.70	0.01116	(09122922)	609544.09
4202397.70	0.01053	(09122922)		
609559.09	4202397.70	0.01021	(10122817)	609574.09
4202397.70	0.00968	(10122817)		
609589.09	4202397.70	0.00930	(11123023)	609604.09
4202397.70	0.00884	(11123023)		
609619.09	4202397.70	0.00824	(11123023)	609634.09
4202397.70	0.00757	(11123023)		
609649.09	4202397.70	0.00686	(11123023)	609664.09



4202397.70	0.00640	(12020722)	
609679.09	4202397.70	0.00618	(12020722) 609694.09
4202397.70	0.00596	(09012121)	
609709.09	4202397.70	0.00573	(09012121) 609724.09
4202397.70	0.00553	(11010118)	
609394.09	4202412.70	0.01441	(09022220) 609409.09
4202412.70	0.01416	(12021206)	
609424.09	4202412.70	0.01393	(12021724) 609439.09
4202412.70	0.01358	(12120608)	
609454.09	4202412.70	0.01292	(13020722) 609469.09
4202412.70	0.01266	(12120506)	
609484.09	4202412.70	0.01199	(12120506) 609499.09
4202412.70	0.01131	(13011002)	
609514.09	4202412.70	0.01102	(09022423) 609529.09
4202412.70	0.01061	(09022423)	
609544.09	4202412.70	0.01014	(09021721) 609559.09
4202412.70	0.00965	(09122922)	
609574.09	4202412.70	0.00927	(10122817) 609589.09
4202412.70	0.00894	(10122817)	
609604.09	4202412.70	0.00855	(11123023) 609619.09
4202412.70	0.00825	(11123023)	
609634.09	4202412.70	0.00782	(11123023) 609649.09
4202412.70	0.00729	(11123023)	
609664.09	4202412.70	0.00670	(11123023) 609679.09
4202412.70	0.00608	(11123023)	
609694.09	4202412.70	0.00574	(12020722) 609709.09
4202412.70	0.00556	(12020722)	
609724.09	4202412.70	0.00537	(09012121) 609394.09
4202427.70	0.01343	(09022220)	
609409.09	4202427.70	0.01305	(12021206) 609424.09
4202427.70	0.01294	(09022307)	
609439.09	4202427.70	0.01257	(10022423) 609454.09
4202427.70	0.01218	(12120608)	
609469.09	4202427.70	0.01175	(13020722) 609484.09
4202427.70	0.01151	(12120506)	
609499.09	4202427.70	0.01081	(10012518) 609514.09
4202427.70	0.01028	(13011002)	
609529.09	4202427.70	0.01004	(09022423) 609544.09
4202427.70	0.00970	(09022423)	
609559.09	4202427.70	0.00929	(09021721) 609574.09
4202427.70	0.00892	(09122922)	
609589.09	4202427.70	0.00848	(10122817) 609604.09
4202427.70	0.00829	(10122817)	
609619.09	4202427.70	0.00791	(10122817) 609634.09
4202427.70	0.00768	(11123023)	
609649.09	4202427.70	0.00738	(11123023) 609664.09
4202427.70	0.00697	(11123023)	
609679.09	4202427.70	0.00649	(11123023) 609694.09
4202427.70	0.00597	(11123023)	
609709.09	4202427.70	0.00544	(11123023) 609724.09

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4202427.70      0.00518 (12020722)
      609439.09  4202472.70      0.01037 (10020523)      609454.09
4202472.70      0.01017 (12021724)
      609469.09  4202472.70      0.00995 (12120608)      609484.09
4202472.70      0.00951 (12120608)
^ *** AERMOD - VERSION 21112 ***   *** C:\Lakes\AERMOD
View\5200LoneTree_TruckOperation\5200LoneTree_Truck0 ***   10/25/21
*** AERMET - VERSION 14134 ***   ***
***                                     11:05:39

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

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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
      INCLUDING SOURCE(S):      L0000001      , L0000002
, L0000003      , L0000004      , L0000005      ,
      L0000006      , L0000007      , L0000008      , L0000009      , L0000010
, L0000011      , L0000012      , L0000013      ,
      L0000014      , L0000015      , L0000016      , L0000017      , L0000018
, L0000019      , L0000020      , L0000021      ,
      L0000022      , L0000023      , L0000024      , L0000025      , L0000026
, L0000027      , L0000028      , . . .      ,

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\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

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\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
609499.09	4202472.70	0.00930	(13020722)	609514.09
4202472.70	0.00913 (12120506)			
609529.09	4202472.70	0.00880	(12120506)	609544.09
4202472.70	0.00836 (10012518)			
609559.09	4202472.70	0.00798	(13011002)	609574.09
4202472.70	0.00785 (09022423)			
609589.09	4202472.70	0.00770	(09022423)	609604.09
4202472.70	0.00735 (09021721)			
609619.09	4202472.70	0.00714	(09122922)	609634.09
4202472.70	0.00689 (09122922)			
609649.09	4202472.70	0.00660	(10122817)	609664.09
4202472.70	0.00652 (10122817)			
609679.09	4202472.70	0.00630	(10122817)	609694.09
4202472.70	0.00608 (12121607)			
609319.09	4202487.70	0.01106	(10012801)	609334.09
4202487.70	0.01125 (10120908)			

609349.09	4202487.70	0.01065	(10120908)	609364.09
4202487.70	0.01044	(11020103)		
609394.09	4202487.70	0.01023	(10121808)	609409.09
4202487.70	0.01015	(09022220)		
609424.09	4202487.70	0.00981	(11022222)	609439.09
4202487.70	0.00976	(12021206)		
609454.09	4202487.70	0.00963	(09022307)	609469.09
4202487.70	0.00937	(10022423)		
609484.09	4202487.70	0.00919	(12120608)	609499.09
4202487.70	0.00872	(10021424)		
609514.09	4202487.70	0.00859	(11010201)	609529.09
4202487.70	0.00848	(12120506)		
609544.09	4202487.70	0.00810	(12120506)	609559.09
4202487.70	0.00774	(10012518)		
609574.09	4202487.70	0.00741	(13011002)	609589.09
4202487.70	0.00730	(09022423)		
609604.09	4202487.70	0.00717	(09022423)	609619.09
4202487.70	0.00684	(09021721)		
609634.09	4202487.70	0.00670	(09021721)	609649.09
4202487.70	0.00650	(09122922)		
609664.09	4202487.70	0.00617	(09122922)	609679.09
4202487.70	0.00610	(10122817)		
609184.09	4202502.70	0.00920	(09012124)	609199.09
4202502.70	0.00938	(10010218)		
609214.09	4202502.70	0.00935	(13120920)	609229.09
4202502.70	0.00975	(12122821)		
609244.09	4202502.70	0.01002	(10121308)	609259.09
4202502.70	0.01015	(09121604)		
609274.09	4202502.70	0.01031	(11123003)	609289.09
4202502.70	0.01030	(09011124)		
609304.09	4202502.70	0.01045	(09022320)	609319.09
4202502.70	0.01042	(10012801)		
609334.09	4202502.70	0.01059	(10120908)	609349.09
4202502.70	0.01002	(10120908)		
609364.09	4202502.70	0.00983	(09120508)	609394.09
4202502.70	0.00971	(10121808)		
609409.09	4202502.70	0.00954	(09022220)	609424.09
4202502.70	0.00928	(10020719)		
609439.09	4202502.70	0.00919	(12021206)	609454.09
4202502.70	0.00910	(10020523)		
609469.09	4202502.70	0.00891	(12021724)	609484.09
4202502.70	0.00870	(12120608)		
609499.09	4202502.70	0.00843	(12120608)	609514.09
4202502.70	0.00813	(13020722)		
609529.09	4202502.70	0.00799	(09022424)	609544.09
4202502.70	0.00788	(12120506)		
609559.09	4202502.70	0.00747	(12120506)	609574.09
4202502.70	0.00719	(10012518)		
609589.09	4202502.70	0.00690	(13011002)	609604.09
4202502.70	0.00681	(09022423)		

609619.09	4202502.70	0.00672	(09022423)	609634.09
4202502.70	0.00643	(09022423)		
609649.09	4202502.70	0.00631	(09021721)	609664.09
4202502.70	0.00613	(09122922)		
609064.09	4202517.70	0.00701	(09122817)	609079.09
4202517.70	0.00713	(13122319)		
609094.09	4202517.70	0.00731	(13012924)	609109.09
4202517.70	0.00769	(09021623)		
609124.09	4202517.70	0.00787	(11121408)	609139.09
4202517.70	0.00816	(12122304)		
609154.09	4202517.70	0.00835	(11021706)	609169.09
4202517.70	0.00860	(09012124)		
609184.09	4202517.70	0.00882	(10010218)	609199.09
4202517.70	0.00873	(13120920)		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_TruckOperation\5200LoneTree\_TruckO \*\*\* 10/25/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
 \*\*\* 11:05:39

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): L0000001 , L0000002  
 , L0000003 , L0000004 , L0000005 ,  
 L0000006 , L0000007 , L0000008 , L0000009 , L0000010  
 , L0000011 , L0000012 , L0000013 ,  
 L0000014 , L0000015 , L0000016 , L0000017 , L0000018  
 , L0000019 , L0000020 , L0000021 ,  
 L0000022 , L0000023 , L0000024 , L0000025 , L0000026  
 , L0000027 , L0000028 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M\*\*3

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609214.09	4202517.70	0.00899	(11011921)	609229.09
4202517.70	0.00928	(10121308)		
609244.09	4202517.70	0.00950	(10122619)	609259.09
4202517.70	0.00951	(10010508)		
609274.09	4202517.70	0.00974	(11123003)	609289.09
4202517.70	0.00967	(09022320)		
609304.09	4202517.70	0.00985	(11012907)	609319.09

4202517.70	0.00984	(10012801)		
609334.09	4202517.70	0.00999	(10120908)	609349.09
4202517.70	0.00945	(10120908)		
609364.09	4202517.70	0.00927	(09120508)	609409.09
4202517.70	0.00896	(11122819)		
609424.09	4202517.70	0.00886	(09022220)	609439.09
4202517.70	0.00858	(11022222)		
609454.09	4202517.70	0.00856	(12021206)	609469.09
4202517.70	0.00845	(09022307)		
609484.09	4202517.70	0.00825	(10022423)	609499.09
4202517.70	0.00812	(12120608)		
609514.09	4202517.70	0.00769	(10021424)	609529.09
4202517.70	0.00761	(13020722)		
609544.09	4202517.70	0.00748	(09022424)	609559.09
4202517.70	0.00734	(12120506)		
609574.09	4202517.70	0.00693	(10122303)	609589.09
4202517.70	0.00670	(10012518)		
609604.09	4202517.70	0.00645	(13011002)	609619.09
4202517.70	0.00637	(09022423)		
609634.09	4202517.70	0.00631	(09022423)	609649.09
4202517.70	0.00607	(09022423)		
609079.09	4202532.70	0.00686	(13012924)	609094.09
4202532.70	0.00719	(09021623)		
609109.09	4202532.70	0.00738	(11121408)	609124.09
4202532.70	0.00764	(12122304)		
609139.09	4202532.70	0.00776	(11122707)	609154.09
4202532.70	0.00798	(09012124)		
609169.09	4202532.70	0.00820	(10010218)	609184.09
4202532.70	0.00829	(10010218)		
609199.09	4202532.70	0.00827	(13120920)	609214.09
4202532.70	0.00859	(12122821)		
609229.09	4202532.70	0.00887	(10121308)	609244.09
4202532.70	0.00900	(10122619)		
609259.09	4202532.70	0.00902	(10010508)	609274.09
4202532.70	0.00918	(11123003)		
609289.09	4202532.70	0.00920	(09022320)	609304.09
4202532.70	0.00930	(11012907)		
609319.09	4202532.70	0.00931	(10012801)	609334.09
4202532.70	0.00944	(10120908)		
609349.09	4202532.70	0.00894	(10120908)	609364.09
4202532.70	0.00876	(09120508)		
609409.09	4202532.70	0.00847	(11122819)	609424.09
4202532.70	0.00844	(09022220)		
609439.09	4202532.70	0.00816	(11022222)	609454.09
4202532.70	0.00813	(12021206)		
609469.09	4202532.70	0.00802	(10020523)	609484.09
4202532.70	0.00787	(12021724)		
609499.09	4202532.70	0.00768	(12120608)	609514.09
4202532.70	0.00753	(12120608)		
609529.09	4202532.70	0.00719	(10021424)	609544.09

4202532.70	0.00712	(13020722)		
609559.09	4202532.70	0.00702	(12120506)	609574.09
4202532.70	0.00684	(12120506)		
609589.09	4202532.70	0.00649	(10012518)	609604.09
4202532.70	0.00626	(10012518)		
609619.09	4202532.70	0.00604	(13011002)	609094.09
4202547.70	0.00692	(11121408)		
609109.09	4202547.70	0.00715	(12122304)	609124.09
4202547.70	0.00725	(11122707)		
609139.09	4202547.70	0.00748	(11021706)	609154.09
4202547.70	0.00769	(09012124)		
609169.09	4202547.70	0.00787	(10010218)	609184.09
4202547.70	0.00777	(13120920)		
609199.09	4202547.70	0.00796	(11011921)	609214.09
4202547.70	0.00820	(12122821)		
609229.09	4202547.70	0.00841	(10121308)	609244.09
4202547.70	0.00853	(09121604)		
609259.09	4202547.70	0.00859	(11123003)	609274.09
4202547.70	0.00864	(11123003)		
609289.09	4202547.70	0.00877	(09022320)	609304.09
4202547.70	0.00879	(11012907)		
609319.09	4202547.70	0.00883	(10012801)	609334.09
4202547.70	0.00894	(10120908)		

^ \*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
 View\5200LoneTree\_TruckOperation\5200LoneTree\_TruckO \*\*\* 10/25/21  
 \*\*\* AERMET - VERSION 14134 \*\*\*  
 \*\*\* 11:05:39

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 VALUES FOR SOURCE GROUP: ALL \*\*\*  
 INCLUDING SOURCE(S): L0000001 , L0000002  
 , L0000003 , L0000004 , L0000005 ,  
 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010  
 , L0000011 , L0000012 , L0000013 ,  
 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018  
 , L0000019 , L0000020 , L0000021 ,  
 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026  
 , L0000027 , L0000028 , . . . ,

\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

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

609349.09	4202547.70	0.00847	(10120908)	609364.09
4202547.70	0.00828	(09120508)		
609409.09	4202547.70	0.00799	(11122819)	609424.09
4202547.70	0.00800	(09022220)		
609439.09	4202547.70	0.00775	(10020719)	609454.09
4202547.70	0.00766	(12021206)		
609469.09	4202547.70	0.00760	(10020523)	609484.09
4202547.70	0.00750	(09022307)		
609499.09	4202547.70	0.00735	(10022423)	609514.09
4202547.70	0.00724	(12120608)		
609529.09	4202547.70	0.00694	(12120608)	609544.09
4202547.70	0.00677	(13020722)		
609559.09	4202547.70	0.00668	(11010201)	609574.09
4202547.70	0.00661	(12120506)		
609589.09	4202547.70	0.00639	(12120506)	609109.09
4202562.70	0.00686	(12122304)		
609124.09	4202562.70	0.00703	(11021706)	609139.09
4202562.70	0.00721	(09012124)		
609154.09	4202562.70	0.00738	(10010218)	609169.09
4202562.70	0.00741	(10010218)		
609184.09	4202562.70	0.00741	(13120920)	609199.09
4202562.70	0.00765	(11011921)		
609214.09	4202562.70	0.00789	(10121308)	609229.09
4202562.70	0.00804	(10122619)		
609244.09	4202562.70	0.00808	(09121604)	609259.09
4202562.70	0.00822	(11123003)		
609274.09	4202562.70	0.00821	(09011124)	609289.09
4202562.70	0.00836	(09022320)		
609304.09	4202562.70	0.00832	(11012907)	609319.09
4202562.70	0.00839	(10012801)		
609334.09	4202562.70	0.00849	(10120908)	609349.09
4202562.70	0.00803	(10120908)		
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609454.09	4202562.70	0.00723	(11022222)	609469.09
4202562.70	0.00723	(12021206)		
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609514.09	4202562.70	0.00685	(12120608)	609529.09
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4202562.70	0.00640	(13020722)		
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609139.09	4202577.70	0.00691	(09012124)	609154.09
4202577.70	0.00707	(10010218)		

609169.09	4202577.70	0.00698	(13120920)	609184.09
4202577.70	0.00711	(11011921)		
609199.09	4202577.70	0.00736	(12122821)	609214.09
4202577.70	0.00757	(10121308)		
609229.09	4202577.70	0.00768	(10122619)	609244.09
4202577.70	0.00768	(10010508)		
609259.09	4202577.70	0.00785	(11123003)	609274.09
4202577.70	0.00781	(09011124)		
609289.09	4202577.70	0.00797	(09022320)	609304.09
4202577.70	0.00788	(11012907)		
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4202577.70	0.00807	(10120908)		
609349.09	4202577.70	0.00764	(10120908)	609364.09
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609409.09	4202577.70	0.00733	(10121808)	609424.09
4202577.70	0.00717	(11122819)		
609439.09	4202577.70	0.00714	(09022220)	609454.09
4202577.70	0.00691	(11022222)		
609469.09	4202577.70	0.00688	(12021206)	609484.09
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609499.09	4202577.70	0.00673	(12021724)	609514.09
4202577.70	0.00661	(10022423)		
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4202577.70	0.00631	(12120608)		
609139.09	4202592.70	0.00668	(10010218)	609154.09
4202592.70	0.00667	(10010218)		
609169.09	4202592.70	0.00668	(13120920)	609184.09
4202592.70	0.00688	(11011921)		
609199.09	4202592.70	0.00705	(10121308)	609214.09
4202592.70	0.00721	(10121308)		
609229.09	4202592.70	0.00732	(09121604)	609244.09
4202592.70	0.00734	(10010508)		

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

\*\*\* THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION  
 \*\*\*  
 VALUES FOR SOURCE GROUP: ALL INCLUDING SOURCE(S): L0000001 , L0000002  
 , L0000003 , L0000004 , L0000005 ,  
 , L0000006 , L0000007 , L0000008 , L0000009 , L0000010  
 , L0000011 , L0000012 , L0000013 ,  
 , L0000014 , L0000015 , L0000016 , L0000017 , L0000018  
 , L0000019 , L0000020 , L0000021 ,  
 , L0000022 , L0000023 , L0000024 , L0000025 , L0000026  
 , L0000027 , L0000028 , . . . ,



\*\*\* DISCRETE CARTESIAN RECEPTOR POINTS

\*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)
Y-COORD (M)	CONC	(YYMMDDHH)		
609259.09	4202592.70	0.00748	(11123003)	609274.09
4202592.70	0.00742	(09011124)		
609289.09	4202592.70	0.00759	(09022320)	609304.09
4202592.70	0.00747	(11012907)		
609319.09	4202592.70	0.00761	(12012604)	609334.09
4202592.70	0.00769	(10120908)		
609349.09	4202592.70	0.00729	(10120908)	609364.09
4202592.70	0.00710	(11012906)		
609409.09	4202592.70	0.00701	(10121808)	609424.09
4202592.70	0.00683	(11122819)		
609439.09	4202592.70	0.00683	(09022220)	609454.09
4202592.70	0.00660	(10020719)		
609469.09	4202592.70	0.00649	(12021206)	609484.09
4202592.70	0.00649	(12021206)		
609499.09	4202592.70	0.00644	(09022307)	609514.09
4202592.70	0.00634	(10022423)		
609529.09	4202592.70	0.00616	(12120608)	609169.09
4202607.70	0.00639	(11011921)		
609184.09	4202607.70	0.00664	(12122821)	609199.09
4202607.70	0.00683	(10121308)		
609214.09	4202607.70	0.00693	(10122619)	609229.09
4202607.70	0.00698	(09121604)		
609244.09	4202607.70	0.00703	(11123003)	609259.09
4202607.70	0.00711	(11123003)		
609274.09	4202607.70	0.00706	(09022320)	609289.09
4202607.70	0.00724	(09022320)		
609304.09	4202607.70	0.00709	(11012907)	609319.09
4202607.70	0.00727	(12012604)		
609334.09	4202607.70	0.00734	(10120908)	609349.09
4202607.70	0.00696	(10120908)		
609364.09	4202607.70	0.00677	(11012906)	609409.09
4202607.70	0.00670	(10121808)		
609424.09	4202607.70	0.00650	(11122819)	609439.09
4202607.70	0.00651	(09022220)		
609454.09	4202607.70	0.00635	(09022220)	609469.09
4202607.70	0.00620	(11022222)		
609484.09	4202607.70	0.00622	(12021206)	609499.09
4202607.70	0.00617	(10020523)		
609199.09	4202622.70	0.00657	(10121308)	609214.09

```

4202622.70      0.00666 (10122619)
      609229.09  4202622.70      0.00663 (09121604)      609244.09
4202622.70      0.00678 (11123003)
      609259.09  4202622.70      0.00675 (11123003)      609274.09
4202622.70      0.00680 (09022320)
      609289.09  4202622.70      0.00691 (11012907)      609304.09
4202622.70      0.00674 (12022721)
      609319.09  4202622.70      0.00696 (12012604)      609334.09
4202622.70      0.00701 (10120908)
      609349.09  4202622.70      0.00665 (10120908)      609364.09
4202622.70      0.00647 (11012906)
      609409.09  4202622.70      0.00639 (10121808)      609424.09
4202622.70      0.00623 (10121808)
      609439.09  4202622.70      0.00619 (09022220)      609454.09
4202622.70      0.00614 (09022220)
      609469.09  4202622.70      0.00595 (11022222)      609408.39
4202173.48      0.02669 (13012505)

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

\*\*\* THE SUMMARY OF MAXIMUM ANNUAL RESULTS

AVERAGED OVER 5 YEARS \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

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

```

-----
ALL      1ST HIGHEST VALUE IS      0.00357 AT ( 609424.09, 4202232.70,
40.00,  40.00,  0.00) DC
      2ND HIGHEST VALUE IS      0.00351 AT ( 609424.09, 4202217.70,
40.00,  40.00,  0.00) DC
      3RD HIGHEST VALUE IS      0.00348 AT ( 609424.09, 4202247.70,
40.00,  40.00,  0.00) DC
      4TH HIGHEST VALUE IS      0.00326 AT ( 609424.09, 4202202.70,
40.03,  40.03,  0.00) DC
      5TH HIGHEST VALUE IS      0.00325 AT ( 609424.09, 4202262.70,
40.00,  40.00,  0.00) DC
      6TH HIGHEST VALUE IS      0.00286 AT ( 609274.09, 4202217.70,

```

41.00, 41.00, 0.00) DC  
 7TH HIGHEST VALUE IS 0.00286 AT ( 609424.09, 4202277.70,  
 40.00, 40.00, 0.00) DC  
 8TH HIGHEST VALUE IS 0.00283 AT ( 609424.09, 4202187.70,  
 40.21, 40.21, 0.00) DC  
 9TH HIGHEST VALUE IS 0.00280 AT ( 609274.09, 4202232.70,  
 41.00, 41.00, 0.00) DC  
 10TH HIGHEST VALUE IS 0.00279 AT ( 609439.09, 4202232.70,  
 40.00, 40.00, 0.00) DC

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

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

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

RESULTS \*\*\*

\*\* CONC OF PM<sub>2.5</sub> IN MICROGRAMS/M<sup>3</sup>

\*\*

GROUP ID (XR, YR, ZELEV, ZHILL, ZFLAG)	AVERAGE CONC OF TYPE	NETWORK GRID-ID	DATE (YYMMDDHH)	RECEPTOR
ALL HIGH 1ST HIGH VALUE IS 4202202.70, 41.00, 41.00,	0.03480	ON 10020504:	AT ( 609274.09,	

0.00) DC

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

\*\*\* AERMOD - VERSION 21112 \*\*\* C:\Lakes\AERMOD  
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 \*\*\* AERMET - VERSION 14134 \*\*\*  
 \*\*\* 11:05:39

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

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

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

A Total of 0 Fatal Error Message(s)  
 A Total of 1 Warning Message(s)  
 A Total of 15235 Informational Message(s)

A Total of 43872 Hours Were Processed

A Total of 13448 Calm Hours Identified

A Total of 1787 Missing Hours Identified ( 4.07 Percent)

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

\*\*\*\*\* WARNING MESSAGES \*\*\*\*\*  
 MX W481 43873 MAIN: Data Remaining After End of Year. Number of Hours=  
 48

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

**Appendix B**  
**Biological Resources Assessment**



**5200 Lone Tree Way Gas Station  
Project**

Biological Resources Technical Report

July 2021

Prepared for:

The City of Antioch  
Community Development Department –  
Planning Division  
200 H Street  
Antioch, CA 94509

Prepared by:

Services Inc.  
1340 Treat Boulevard, Suite 300  
Walnut Creek, CA 94597





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## 1.0 INTRODUCTION

This Biological Resources Technical Report (BRTR) has been prepared to evaluate the potential effects on sensitive biological resources that may occur for the proposed 5200 Lone Tree Way Gas Station Project (Project). The Project includes development of a new United Pacific convenience store, attached car wash, a fuel canopy with eight fuel dispensers, two underground storage tanks, and related site improvements and landscaping.

The proposed Project is located within the City of Antioch, in Contra Costa County. The Project site is bordered by Lone Tree Way, Vista Grande Drive, and single-family homes. The Assessor's Parcel Number (APN) is 056-270-059 (Figure 1). The approximate center of the Project is located at coordinates; 37°57'40.02"N, 121°45'19.41"W.

This BRTR is based on information gathered from a review of desktop resources including existing literature, data, and maps; and from a reconnaissance-level field survey of the Project area performed by Stantec Consulting Services Inc. (Stantec) biologists. The Project area for this BRTR encompasses approximately 2 acres and consists of the proposed Project footprint (Figure 1).

The overall purpose of this BRTR is to:

- Characterize the habitat and vegetation communities present;
- Evaluate the potential for special-status plant and animal species to occur.



## 2.0 PROJECT DESCRIPTION

The proposed Project consists of a new United Pacific convenience store of 3,200 square feet, attached car wash of 1,125 square feet, a fuel canopy with eight fuel dispensers, three underground storage tanks, and related site improvements and landscaping on an approximately 2.0-acre lot. The proposed Project proposes right-in/right-out ingress and egress from Lone Tree Way and Vista Grande Drive. The proposed Project would provide nineteen parking stalls and landscaping which will consist of drought-tolerant species, including shade canopy trees. The car wash drive lane would provide adequate stacking away from areas of ingress/egress from public right-of-way.



## 3.0 METHODS

The analysis presented in this BRTR includes a review of existing information about sensitive biological resources known to occur in the vicinity of the proposed Project as well as the reconnaissance-level field survey conducted to determine whether the biological resources are absent, present, and/or are likely to be present.

### 3.1 DEFINITIONS

#### 3.1.1 Special-Status Species and Sensitive Communities

For the purpose of this evaluation, “special-status” plant species include plants that are: 1) listed as threatened or endangered under the California Endangered Species Act (CESA) and/or Federal Endangered Species Act (FESA); 2) proposed for federal listing as threatened or endangered; 3) State or federal candidate species; 4) designated as rare by the California Department of Fish and Wildlife (CDFW); or 5) California Rare Plant Rank (CRPR) 1A, 1B, 2A or 2B species. Special-status animal species include species that are: 1) listed as threatened or endangered under the CESA and/or FESA; 2) proposed for federal listing as threatened or endangered; 3) State and/or federal candidate species; or 4) identified by the CDFW as species of special concern or fully protected species.

Sensitive natural communities are those communities that are of highly limited distribution, and may or may not contain rare, threatened, or endangered species. The California Natural Diversity Database (CNDDDB) ranks natural communities according to their rarity and endangerment in California. Habitats are considered “sensitive” if they are identified on the CDFW List of Vegetation Alliances and Associations as being highly imperiled or classified by CDFW in the CNDDDB as natural communities of special concern – Ranks S1 to S3.

#### 3.1.2 Potential to Occur

The potential for special-status species to occur within the Project area, was classified under one of five categories as described below. Only those special-status species with an occurrence potential of “Moderate” or greater are evaluated in detail as those species are most likely to occur.

- **Present:** The species is known to be present or has been recently observed in the Project area.
- **High:** The species has been observed and documented within five miles of the Project area within the last five years and suitable habitat for the species is present.
- **Moderate:** The proposed Project is located within the range of the species, there are documented occurrences within five miles of the Project area, and/or suitable habitat for the species exists in the Project area.
- **Low:** The proposed Project is located within the range of the species and low-quality (e.g., disturbed, agricultural) habitat is present.
- **Absent:** The proposed Project area is located outside of the species range and/or potential habitat to support the species is not present in the Project area.

## 3.2 LITERATURE AND DATABASE REVIEW

Information about habitat types and special-status species that could occur in the Project area was obtained from the following sources:



## 5200 Lone Tree Way Gas Station Project Biological Resources Technical Report

- CDFW CNDDDB plant and animal records (CDFW 2021a) (Appendix A);
- California Native Plant Society (CNPS) online *Inventory of Rare and Endangered Plants* (CNPS 2021) (Appendix A);
- Calflora (2021);
- United States Fish and Wildlife Service (USFWS) list of endangered and threatened species that may occur in the Project area (USFWS 2021a) (Appendix A); and
- USFWS Designated Critical Habitat within the Project area (USFWS 2021a).

The Project area is within the *Antioch South* U.S. Geological Survey (USGS) 7.5-minute quadrangle. A CNDDDB and CNPS database search for special-status species included the USGS 7.5-minute quadrangles within a 5-mile radius of the Project site. In this case, the *Antioch North*, *Antioch South*, *Jersey Island*, and *Brentwood* topographic quadrangles were queried. A 5-mile radius quadrangle search was conducted based on habitat types and migration distances for potential special-status species that could occur within the Project area. The USFWS database of endangered species was also utilized to query all federally endangered, threatened, candidate, and proposed animal and plant species, as well as designated critical habitat with known occurrences in the Project quadrangle and the adjacent quadrangles. Calflora and CNPS' Online Inventory databases were used to obtain more information on the habitat requirements of rare plants.

Other information sources consulted to determine which special-status species could potentially occur in the Project area included:

- USGS California 7.5-minute topographic quadrangles for *Antioch North*, *Antioch South*, *Jersey Island*, and *Brentwood*;
- Aerial photographs of the Project area and surrounding vicinity (Google Earth 2021);
- USFWS National Wetlands Inventory (USFWS 2021b);
- *Special Animals List* (CDFW 2021b);
- *State and Federally Listed Endangered and Threatened Animals of California* (CDFW 2021c);
- *State and Federally Listed Endangered, Threatened and Rare Plants of California* (CDFW 2021d);
- *Special Vascular Plants, Bryophytes, and Lichens List* (CDFW 2021e);
- California Wildlife Habitat Relationships System (WHRS) (CDFW 2014); and
- Other pertinent databases and literature, including *The Jepson Manual: Vascular Plants of California, Second Edition* (Baldwin et. al. 2012).

Based on this background research, a list of special-status species that have the potential to occur or are known to occur in the Project area and vicinity was developed. The list was refined based on a reconnaissance-level biological field survey to determine the potential for those species to occur in the Project area.



### 3.3 FIELD SURVEYS CONDUCTED

A biological survey for special-status species and sensitive natural communities was conducted by Stantec Biologist Scott Elder on June 25, 2021. The biological survey was performed by walking meandering transects throughout the entire Project area to characterize habitats, identify any aquatic resources that may be subject to regulatory agency jurisdiction (e.g., United States Army Corps of Engineers [USACE], Regional Water Quality Control Board (RWQCB) and CDFW), assess potential for special-status species to occur, and to record observed species. To better focus the field survey efforts on those plant and animal special-status species that may occur in the Project area, a target list of potentially occurring species was developed during the literature and database review process. Plant taxonomy for the botanical survey was determined using the Jepson Manual (Baldwin et al. 2012).



## 4.0 REGULATORY CONTEXT

### 4.1 FEDERAL REGULATORY REQUIREMENTS

#### 4.1.1 Federal Endangered Species Act

The FESA of 1973 was established to protect and recover endangered and threatened species and the ecosystems upon which they depend. According to the FESA "endangered" indicates a species is in danger of extinction throughout all or a significant portion of its range. In addition, the FESA defines a species as "threatened" if that species is likely to become endangered within the foreseeable future. The USFWS maintains a list of endangered and threatened species. The USFWS and the National Marine Fisheries Service (NMFS) administer FESA and are responsible for consulting with other federal agencies pursuant to FESA. Consultation with the USFWS would be necessary if a proposed Project action has the potential to affect federally listed species, their habitat, as well as areas of Designated Critical Habitat (DCH). This consultation would proceed under Section 7 of the FESA if a federal action is required for the Project or it would proceed through Section 10 of the FESA if no such federal nexus were available.

#### 4.1.2 Clean Water Act

The objective of the Clean Water Act (CWA) of 1977, as amended, is to maintain and restore the chemical, physical, and biological integrity of the nation's waters. The discharge of dredged or fill material into Waters of the US (WOTUS), including jurisdictional wetlands, is regulated under Section 404 of the CWA by the USACE via a permitting process. Surface water quality is further regulated by the United States Environmental Protection Agency (USEPA); in California this authority is delegated to the State Water Resources Control Board (SWRCB) or the RWQCB. Applicants for Section 404 permits are also required to comply with Section 401 of the CWA by obtaining Water Quality Certification (WQC) through the State.

#### 4.1.3 Migratory Bird Treaty Act

The Migratory Bird Treaty Act (MBTA) of 1918 enacts the provisions of treaties between the United States, Great Britain, Mexico, Japan, and the Soviet Union and authorizes the U.S. Secretary of the Interior to protect and regulate the taking of migratory birds. This treaty prohibits "take," which has been variously defined to include harming any migratory bird listed under the MBTA, including nests, eggs, and/or young.

#### 4.1.4 Executive Orders

Federal agencies are required to demonstrate that their actions comply with Presidential Executive Orders established to protect the environment. Relevant Executive Orders include the following:

- **Executive Order 11990 (Wetlands):** For Projects that could affect wetlands, federal agencies are required to demonstrate that no practicable alternative exists to avoid the wetland(s) and that all practicable avoidance, mitigation, and/or preservation measures have been incorporated into a project to minimize impacts to wetlands. Federal agencies are also required to provide opportunity for early public review of any plans or proposals for new construction in wetlands.



- **Executive Order 11988 (Floodplain Management):** For projects that may be located in a floodplain, federal agencies are required to evaluate the effects of the action on the floodplain and identify practicable alternatives or measures to avoid long- and short-term adverse impacts associated with the occupancy and modification of the floodplain and to avoid incompatible development in the floodplain.
- **Executive Order 13112 (Invasive Species):** Federal agencies are required to prevent the introduction of invasive species and not authorize actions that could cause or promote the introduction or spread of invasive species. Federal agencies need to identify feasible and prudent measures to minimize the risk of harm caused by invasive species.
- **Executive Order 13186 (Migratory Birds):** Federal agencies are required to evaluate the effects of their actions on migratory birds, with emphasis on species of concern, and to minimize the take of migratory birds through development of procedures for evaluating such take and conservation efforts in coordination with the USFWS. This Executive Order further implements the MBTA and requires coordination between the USFWS and federal agencies.

## 4.2 CALIFORNIA REGULATORY REQUIREMENTS

### 4.2.1 California Endangered Species Act

The CESA prohibits “take” of plants or animals listed as endangered or threatened and protects native species of fish, amphibians, reptiles, birds, mammals, invertebrates, and plants, and their habitats, that are threatened with extinction or experiencing a significant decline which, if not halted, would lead to a threatened or endangered designation.

“Take” is defined in Section 86 of the California Fish and Game Code (FGC) as to “hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill.” CESA authorizes the CDFW to issue incidental take permits for state-listed species, when specific criteria are met.

### 4.2.2 Porter-Cologne Water Quality Control Act

The Porter-Cologne Water Quality Control Act (Porter-Cologne), Section 1601 to 1602 of the California FGC, authorizes the SWRCB to oversee water rights and water quality policy, and as such has established nine RWQCBs to protect and enhance water quality at the regional and local levels. In addition to preparing WQCs to designate beneficial uses of water bodies in each region, the RWQCBs issue a permit, referred to as a Waste Discharge Requirement (WDR), for activities that result in pollutant or nuisance discharges that may affect surface or groundwater, including isolated wetlands not subject to the jurisdiction of the USACE.

### 4.2.3 California Fish and Game Code

The California FGC has several provisions for the protection of Waters of the State (WOTS), and special-status plant, fish, and wildlife resources, including their habitat. The applicable California FGCs are as follows:

- **Sections 1600-1616 (Streambed Alteration):** The CDFW is responsible for the protection and conservation of fish and wildlife resources in California. Under Section 1602, CDFW has the authority to issue Lake or Streambed Alteration Agreements (LSAA) for construction activities that substantially divert or obstruct the natural flow or substantially change the bed, channel, or bank of any river, stream, or lake designated by the CDFW as providing resources for fish or wildlife.





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- **Sections 1900-1913 (Native Plant Protection Act):** The Native Plant Protection Act (NPPA) of 1977 prohibits the taking, possessing, or sale within the State of any plants that the CDFW has determined are rare, threatened, or endangered. The CDFW has the authority to enforce the provisions of this act and authorize measures to salvage native plants that may otherwise be affected by project activities, if deemed appropriate.
- **Sections 3500-3516 (Game Birds and Birds of Prey):** The CDFW protects game birds, birds of prey, migratory birds, and fully protected birds and their nests, eggs, and young from take or possession, except as otherwise provided by the code (e.g., incidental take under CESA).
- **Sections 3511, 4700, 5050, and 5515 (Fully Protected Species):** California statutes accord a “fully protected” status to specific birds, mammals, reptiles, amphibians, and fish. These species cannot be “taken,” and no process exists for issuance of incidental take permits for fully protected species.



## 5.0 ENVIRONMENTAL SETTING

### 5.1 SITE CONDITIONS AND LAND USE

#### 5.1.1 Local Setting and Existing Land Use

The Project site is a square shaped parcel that is currently developed with multiple buildings including a single-family home, multi-car garage, and an old barn. Other developed areas include paved asphalt and gravel/dirt areas with various vehicles, trailers, and storage containers placed throughout the southwest portion of the Project area.

The Project site is completely surrounded by urban development, including the following land uses:

- **North:** Lone Tree Way and commercial offices.
- **East:** Vista Grande Drive and multi-family residential apartments.
- **South and West:** Residential development including single-family homes.

#### 5.1.2 Physical Conditions

The topography of the Project area is relatively flat, with the terrain slightly sloping south to north. The Project area occurs at elevations between 137 and 134 feet above mean sea level. Regionally, the Project area has a Mediterranean climate characterized by hot, dry summers and moderate winters, with average temperatures ranging seasonally from 73.7 to 49.4 degrees Fahrenheit (°F). Historical data used to describe the climate was collected at the Antioch Pump Plant 3, California National Oceanic and Atmospheric Administration (NOAA) Coop Station, approximately 1.5 miles north of the Project area (NOAA Regional Climate Centers 2021). Precipitation in the Project area occurs as rain. Average annual rainfall is 12.75 inches and occurs primarily from October through May. The growing season (i.e., 50 percent probability of air temperature 32°F or higher) in the survey area is around 304 days and occurs between early February and December (NOAA Regional Climate Centers 2021).

## 5.2 BIOTIC HABITATS

### 5.2.1 Vegetation Communities

Vegetation types in the Project area were classified based on descriptions provided in *A Guide to Wildlife Habitats of California* (Mayer and Laudenslayer 1988), as well as the *California Natural Community List* (CDFW 2021f), which is adapted from the technical approach and vegetation alliance classification system described in *A Manual of California Vegetation* (Sawyer et al. 2009). The vegetation communities present in the Project area are primarily barren and ruderal with urban development. There are no aquatic vegetation communities within the Project area. Descriptions of the vegetation communities within the Project area are provided below. Representative photographs are provided in Appendix B, and a complete list of plant and wildlife species observed is provided in Appendix C.



## Upland Habitat Types

### Barren and Ruderal

Barren and ruderal habitat occur within a majority of the Project area. This community has a gravel/dirt substrate with opportunistic non-native and invasive ruderal forb species growing throughout. These species include prickly Russian thistle (*Salsola tragus*), prickly lettuce (*Lactuca serriola*), common sow thistle (*Sonchus oleraceus*), and foxtail barley (*Hordeum murinum*).

### Urban/Developed

This land use type does not describe any specific vegetation type under Sawyer et al. (2009) but encompasses land that has been anthropogenically modified with structures and facilities, including roads and buildings. Ornamental plantings and ruderal vegetation may be present within and/or on the margins of developed areas. There are small sections within the Project area that include various landscape tree species and have been maintained by the property owner. These areas are adjacent to the existing buildings on site.

### Annual Grassland

Annual grassland habitat occurs within the northeast portion of the Project area. This habitat is characterized as a moderate herbaceous layer and a limited overstory canopy. Dominant plant species within the annual grassland habitat includes foxtail barley, alkali mallow (*Malvella leprosa*), and Italian rye grass (*Festuca perennis*). This habitat is highly disturbed with vehicle tire tracks throughout the grassland. A handful of large burrows were observed within the grassland habitat; however, these burrows were full leaves and spider webs and were not actively being used.

## 5.2.2 Habitat Connectivity

Habitat corridors are segments of land that provide linkages for wildlife movement between different habitats while also providing cover. Corridors also function as avenues along which plants can propagate, genetic interchange can occur, populations can move in response to environmental changes and natural disasters, and populations can be replenished from other areas. Habitat corridors often consist of riparian areas along streams, rivers, or other natural features. Habitat corridors have been recognized by federal agencies, such as the USFWS, and the state as important habitats worthy of conservation. In general, movement corridors consist of areas of undisturbed land cover that connect larger, contiguous habitats. The Project site does not act as a corridor for species dispersal or provide migration habitat connectivity to adjacent habitat and is not part of any defined essential connectivity areas as identified in the California Essential Habitat Connectivity Project (Spencer et al. 2010).

## 5.2.3 Invasive Species

Invasive plants (i.e., noxious weeds) are undesirable, non-native plants that commonly invade disturbed sites. Most species were introduced from Europe and Asia and many are known to negatively affect native wildlife habitat and plant communities. When disturbance results in the creation of habitat openings or in the loss of intact native vegetation, invasive plants may colonize the site and spread, often out-competing native species. Once established, they are very difficult to eradicate.

All pertinent non-native plant species were reviewed to determine their status as invasive plants according to the ratings in the California Invasive Plant Inventory produced by California Invasive Plant Council (Cal-IPC) (Cal-IPC 2021). Cal-IPC categorizes non-native invasive plants into three categories of overall negative ecological impact in



California as “high”, “moderate”, and “limited”. No invasive species with a Cal-IPC rating of “high” were observed in the Project area.

#### **5.2.4 Sensitive Natural Communities and Aquatic Habitats**

Habitats are considered “sensitive” by CDFW if they are identified on the List of Vegetation Alliances and Associations as being highly imperiled or classified by CDFW in the CNDDDB as natural communities of special concern – Ranks S1 to S3. No sensitive natural communities were documented in the Project area during the reconnaissance-level biological field survey. No other natural communities of concern identified by the USACE, RWQCB, and CDFW, including wetlands and other aquatic habitats, were observed within or adjacent to the Project area.

#### **5.2.5 Special-Status Plant Species**

Regionally occurring special-status plant species were identified based on a review of pertinent literature, the USFWS species list, CNDDDB, and CNPS database records, and the reconnaissance-level biological field survey results. CNDDDB special-status plant species occurrences within five miles of the Project area are illustrated in Figure 2. For each species, habitat requirements were assessed and compared to the habitats in the Project area and immediate vicinity to determine if potential habitat occurs in the Project area. For the purposes of this review, all regionally occurring plant species listed under the FESA, CESA and CNPS are included in Table 1, regardless of whether the Project area provides potential habitat. Based on database records, 37 special-status plants were evaluated for their potential to occur within the Project area. Of these 37 species, 17 were determined to be absent and 20 have a low potential to occur. None were found to have a high or moderate potential to occur as discussed in Table 1.



**Table 1. Special-Status Plant Species with Potential to Occur in the Project area**

Common Name Scientific Name	Listing Status <sup>1</sup> (Fed/State/CRPR)	Known Habitat and Elevation Range (Feet)	Blooming Period	Potential for Occurrence
Large-flowered fiddleneck <i>Amsinckia grandiflora</i>	FE/SE/1B.1	Cismontane woodland and valley and foothill grassland. Elev. 885-1805 ft.	Apr-May	<b>Low.</b> The Project area does not contain woodland habitat. The Project area does contain annual grassland; however, the grassland is highly disturbed and provides only marginal habitat for this species.
Mt. Diablo manzanita <i>Arctostaphylos auriculata</i>	-/-/1B.3	Chaparral in sandstone soil or cismontane woodland. Elev. 440-2135 ft.	Jan-Mar	<b>Absent.</b> The Project area does not contain chaparral or woodland habitat and this species was not observed during the reconnaissance survey.
Contra Costa manzanita <i>Arctostaphylos manzanita</i> ssp. <i>laevigata</i>	-/-/1B.2	Rocky soils in chaparral. Elev. 1410-3610 ft.	Jan-Mar	<b>Absent.</b> The Project area does not contain chaparral habitat and this species was not observed during the reconnaissance survey.
Alkali milk-vetch <i>Astragalus tener</i> var. <i>tener</i>	-/-/1B.2	Valley and foothill grassland in adobe clay soil; playas and vernal pools with alkaline soil. Elev. 0-200 ft.	Mar-Jun	<b>Absent.</b> The Project area does not contain adobe clay soils, playas or vernal pools with alkaline soils and this species was not observed during the reconnaissance survey.
Brittlescale <i>Atriplex depressa</i>	-/-/1B.2	Alkaline and clay soils in chenopod scrub, meadows and seeps, playas, valley and foothill grassland, and vernal pools. Elev. 0-1050 ft.	Apr-Oct	<b>Low.</b> The Project area does not contain chenopod scrub, meadows and seeps, playas, or vernal pools. The Project area does contain annual grassland; however, the grassland is highly disturbed and provides only marginal habitat for this species.
Big tarplant <i>Blepharizonia plumosa</i>	-/-/1B.1	Usually clay soils in valley and foothill grassland. Elev. 100-1660 ft.	July-Oct	<b>Low.</b> The Project area does contain annual grassland; however, the grassland is highly disturbed and provides only marginal habitat for this species.



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Common Name Scientific Name	Listing Status <sup>1</sup> (Fed/State/CRPR)	Known Habitat and Elevation Range (Feet)	Blooming Period	Potential for Occurrence
Mt. Diablo fairy-lantern <i>Calochortus pulchellus</i>	-/-1B.2	Chaparral, cismontane woodland, riparian woodland, and valley and foothill grassland. Elev. 100-2755 ft.	Apr-Jun	<b>Low.</b> The Project area does not contain chaparral or woodland. The Project area does contain annual grassland; however, the grassland is highly disturbed and provides only marginal habitat for this species.
Congdon's tarplant <i>Centromadia parryi</i> ssp. <i>congdonii</i>	-/-1B.1	Valley and foothill grassland in alkaline soils. Elev. 0-755 ft.	May-Oct	<b>Low.</b> The Project area does contain annual grassland; however, the grassland is highly disturbed and provides only marginal habitat for this species.
Soft salty bird's-beak <i>Chloropyron molle</i> ssp. <i>molle</i>	FE/SR/1B.2	Coastal salt marshes and swamps. Elev. 0-10 ft.	Jun-Nov	<b>Absent.</b> The Project area does not contain coastal salt marshes or swamps (salt grass/pickleweed marshes) and this species was not observed during the reconnaissance survey.
Bolander's water-hemlock <i>Cicuta maculata</i> var. <i>bolanderi</i>	-/-2B.1	Coastal fresh or brackish water marshes and swamps. Elev. 0-660 ft.	Jul-Sep	<b>Absent.</b> Project area does not contain coastal fresh or brackish marshes or swamps and this species was not observed during the reconnaissance survey.
Hoover's cryptantha <i>Cryptantha hooveri</i>	-/-1A	Inland dunes and valley and foothill grassland in sandy soils. Elev. 30-490 ft.	Apr-May	<b>Low.</b> The Project area does not contain inland dune habitat. The Project area does contain annual grassland; however, the grassland is highly disturbed and provides only marginal habitat for this species.
Dwarf downingia <i>Downingia pusilla</i>	-/-2B.2	Valley and foothill grassland in mesic habitats and vernal pools. Elev. 5-1460 ft.	Mar-May	<b>Low.</b> The Project area does not contain vernal pools. The Project area does contain annual grassland; however, the grassland is highly disturbed and provides only marginal habitat for this species.



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Common Name Scientific Name	Listing Status <sup>1</sup> (Fed/State/CRPR)	Known Habitat and Elevation Range (Feet)	Blooming Period	Potential for Occurrence
Antioch Dunes buckwheat <i>Eriogonum nudum</i> var. <i>psychicola</i>	-/-1B.1	Inland dunes. Elev. 0-65 ft.	Jul-Oct	<b>Absent.</b> Project area does not contain inland dunes and this species was not observed during the reconnaissance survey.
Mt. Diablo buckwheat <i>Eriogonum truncatum</i>	-/-1B.1	Sandy soils in chaparral, coastal scrub, and valley and foothill grassland. Elev. 10-1150 ft.	Apr-Sep	<b>Low.</b> The Project area does not contain chaparral or coastal scrub habitat. The Project area does contain annual grassland; however, the grassland is highly disturbed and provides only marginal habitat for this species.
Jepson's coyote-thistle <i>Eryngium jepsonii</i>	-/-1B.2	Valley and foothill grassland, vernal pools in clay soil. Elev. 10-985 ft.	Apr-Aug	<b>Low.</b> The Project area does not contain vernal pools. The Project area does contain annual grassland; however, the grassland is highly disturbed and provides only marginal habitat for this species.
Contra Costa wallflower <i>Erysimum capitatum</i> var. <i>angustatum</i>	FE/SE/1B.1	Inland dunes. Elev. 10-70 ft.	Mar-Jul	<b>Absent.</b> Project area does not contain inland dunes and this species was not observed during the reconnaissance survey.
Diamond-petaled California poppy <i>Eschscholzia rhombipetala</i>	-/-1B.1	Valley and foothill grassland in alkaline and clay soils. Elev. 0-3200 ft.	Mar-Apr	<b>Low.</b> The Project area does contain annual grassland; however, the grassland is highly disturbed and provides only marginal habitat for this species.
San Joaquin spearscale <i>Extriplex joaquinana</i>	-/-1B.2	Chenopod scrub, meadows and seeps, playas, and valley and foothill grassland in alkaline soil. Elev. 0-2740 ft.	Apr-Oct	<b>Low.</b> The Project area does not contain chenopod scrub or meadows and seeps. The Project area does contain annual grassland; however, the grassland is highly disturbed and provides only marginal habitat for this species.



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Common Name Scientific Name	Listing Status <sup>1</sup> (Fed/State/CRPR)	Known Habitat and Elevation Range (Feet)	Blooming Period	Potential for Occurrence
Fragrant fritillary <i>Fritillaria liliacea</i>	-/-1B.2	Cismontane woodland, coastal prairie, coastal scrub, valley and foothill grassland often in serpentinite soil. Elev. 10-1345 ft.	Feb-Apr	<b>Low.</b> The Project area does not contain woodland, prairie, or scrub habitat. The Project area does contain annual grassland; however, the grassland is highly disturbed and provides only marginal habitat for this species.
Diablo helianthella <i>Helianthella castanea</i>	-/-1B.2	Usually rocky, axonal soils, often in partial shade in broadleaved upland forest, chaparral, cismontane woodland, coastal scrub, riparian woodland, and valley and foothill grassland. Elev. 195-4265 ft.	Mar-Jun	<b>Low.</b> The Project area does not contain forest, woodland, chaparral, or coastal scrub habitat. The Project area does contain annual grassland; however, the grassland is highly disturbed and provides only marginal habitat for this species.
Brewer's western flax <i>Hesperolinon breweri</i>	-/-1B.2	Usually serpentinite soils in chaparral, cismontane woodland, valley and foothill grassland. Elev. 100-3100 ft.	May-Jul	<b>Low.</b> The Project area does not contain woodland or chaparral habitat. The Project area does contain annual grassland; however, the grassland is highly disturbed and provides only marginal habitat for this species.
Woolly rose-mallow <i>Hibiscus lasiocarpus</i> var. <i>occidentalis</i>	-/-1B.2	Freshwater marshes and swamps, often in riprap on sides of levees. Elev. 0-395 ft.	Jun-Sep	<b>Absent.</b> The Project area does not contain freshwater marshes and swamps and this species was not observed during the reconnaissance survey.
Contra Costa goldfields <i>Lasthenia conjugens</i>	FE/-1B.1	Cismontane woodland, playas in alkaline soil, mesic valley and foothill grassland, and vernal pools in mesic areas. Elev. 0-1545 ft.	Mar-Jun	<b>Low.</b> The Project area does not contain woodland or playas. The Project area does contain annual grassland; however, the grassland is highly disturbed and provides only marginal habitat for this species.
Delta tule pea <i>Lathyrus jepsonii</i> var. <i>jepsonii</i>	-/-1B.2	Freshwater and brackish marshes and swamps. Elev. 0-20 ft.	May-Sep	<b>Absent.</b> The Project area does not contain freshwater or brackish marshes and swamps and this species was not observed during the reconnaissance survey.





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Common Name Scientific Name	Listing Status <sup>1</sup> (Fed/State/CRPR)	Known Habitat and Elevation Range (Feet)	Blooming Period	Potential for Occurrence
Mason's lilaepsis <i>Lilaeopsis masonii</i>	-/SR/1B.1	Wetlands, riparian, freshwater marsh, brackish marsh, and wetland riparian. Elev. 0-32 ft.	Apr-Nov	<b>Absent.</b> The Project area does not contain freshwater or brackish marshes, wetlands, or riparian wetlands and this species was not observed during the reconnaissance survey.
Delta mudwort <i>Limosella australis</i>	-/-/2B.1	Riparian scrub, freshwater or brackish marshes and swamps, usually on mud banks. Elev. 0-10 ft.	May-Aug	<b>Absent.</b> The Project area does not contain freshwater or brackish marshes or riparian scrub habitat and this species was not observed during the reconnaissance survey.
Showy golden madia <i>Madia radiata</i>	-/-/1B.1	Cismontane woodland and valley and foothill grassland. Elev. 80-3985 ft.	Mar-May	<b>Low.</b> The Project area does not contain woodland habitat. The Project area does contain annual grassland; however, the grassland is highly disturbed and provides only marginal habitat for this species.
Hall's bush-mallow <i>Malacothamnus hallii</i>	-/-/1B.2	Chaparral and coastal scrub. Elev. 30-2500 ft.	May-Oct	<b>Absent.</b> The Project area does not contain chaparral or coastal scrub habitat and this species was not observed during the reconnaissance survey.
Shining navarretia <i>Navarretia nigelliformis</i> ssp. <i>radians</i>	-/-/1B.2	Sometimes clay soils in cismontane woodland, valley and foothill grassland, and vernal pools. Elev. 210-3280 ft.	Apr-Jul	<b>Low.</b> The Project area does not contain woodland or vernal pools. The Project area does contain annual grassland; however, the grassland is highly disturbed and provides only marginal habitat for this species.
Antioch Dunes evening-primrose <i>Oenothera deltoides</i> ssp. <i>howellii</i>	FE/SE/1B.1	Inland dunes. Elev. 0-100 ft.	Mar-Sep	<b>Absent.</b> The Project area does not contain inland dunes and this species was not observed during the reconnaissance survey.



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Common Name Scientific Name	Listing Status <sup>1</sup> (Fed/State/CRPR)	Known Habitat and Elevation Range (Feet)	Blooming Period	Potential for Occurrence
Bearded popcornflower <i>Plagiobothrys hystriculus</i>	-/-1B.1	Often in vernal swales in mesic valley and foothill grassland and vernal pool margins. Elev. 0-900 ft.	Apr-May	<b>Low.</b> The Project area does not contain vernal pools. The Project area does contain annual grassland; however, the grassland is highly disturbed and provides only marginal habitat for this species.
Eel-grass pondweed <i>Potamogeton zosteriformis</i>	-/-2B.2	Freshwater marshes and swamps. Elev. 0-6100 ft.	Jun-Jul	<b>Absent.</b> The Project area does not contain freshwater marshes and swamps and this species was not observed during the reconnaissance survey.
Chaparral ragwort <i>Senecio aphanactis</i>	-/-2B.2	Sometimes in alkaline soils in chaparral, cismontane woodland, and coastal scrub. Elev. 45-2625 ft.	Jan-May	<b>Absent.</b> The Project area does not contain chaparral, woodland, or coastal scrub habitat and this species was not observed during the reconnaissance survey.
Keck's checkerbloom <i>Sidalcea keckii</i>	FE/-1B.1	Serpentinite and clay soils in cismontane woodland and valley and foothill grassland. Elev. 245-2130 ft.	Apr-May	<b>Low.</b> The Project area does not contain woodland habitat. The Project area does contain annual grassland; however, the grassland is highly disturbed and provides only marginal habitat for this species.
Suisun Marsh aster <i>Symphotrichum lentum</i>	-/-1B.2	Brackish and freshwater marshes and swamps. Elev. 0-10 ft.	Apr-Nov	<b>Absent.</b> The Project area does not contain freshwater or brackish marshes or swamps and this species was not observed during the reconnaissance survey.
Caper-fruited tropidocarpum <i>Tropidocarpum capparideum</i>	-/-1B.1	Valley and foothill grassland (alkaline hills) Elev. 0-1495 ft.	Mar-Apr	<b>Low.</b> The Project area does contain annual grassland; however, the grassland is highly disturbed and provides only marginal habitat for this species.
Oval-leaved viburnum <i>Viburnum ellipticum</i>	-/-2B.3	Chaparral, cismontane woodland, and lower montane coniferous forest. Elev. 705-4595 ft.	May-Jun	<b>Absent.</b> The Project area does not contain chaparral, woodland, or forest habitat and this species was not observed during the biological survey.

<sup>1</sup>Federal and State Status Codes

- = No status, or not applicable



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FE = Listed as endangered under the Federal Endangered Species Act (FESA); FT = Listed as threatened under FESA  
SE = Listed as endangered under the California Endangered Species Act (CESA); SR = Listed as rare under CESA; ST = Listed as threatened under CESA

### CNPS Ranking

1A = Presumed extinct in California and either rare or extinct elsewhere.  
1B = Rare, threatened, or endangered in California and elsewhere.  
2A = Presumed extinct in California but common elsewhere.  
2B = Rare, threatened, or endangered in California but more common elsewhere.

### Threat Ranks

0.1 = Seriously threatened in California (more than 80% of occurrences threatened/high degree and immediacy of threat).  
0.2 = Moderately threatened in California (20-80% occurrences threatened/moderate degree and immediacy of threat).  
0.3 = Not very threatened in California (less than 20% of occurrences threatened/low degree and immediacy of threat or no current threats known).



## 5.2.6 Special-Status Animal Species

Regionally occurring special-status animal species were identified based on a review of pertinent literature, the USFWS species list, CNDDDB database records, a query of the California WHRS (CDFW 2014), and the reconnaissance-level biological field survey results. CNDDDB special-status animal species occurrences within five miles of the Project area are illustrated in Figure 3. For each species, habitat requirements were assessed and compared to the habitats in the Project area and immediate vicinity to determine the species' potential to occur in or near the Project area. For the purposes of this review, all regionally occurring wildlife species listed under the FESA or CESA are included in Table 2, regardless of whether the Project area provides potential habitat. The literature and database review identified 36 special-status wildlife species with suitable habitat or known to occur in or near the Project area. Based on initial assessment of wildlife habitats conducted during the biological survey, 31 of these species were determined to be absent and 5 have a low potential to occur. None of these species were determined to be present or have a high or moderate potential to occur.



**Table 2. Special-Status Animal Species within Potential to Occur in the Project area**

Common Name Scientific Name	Listing Status <sup>1</sup> (Fed/State)	Known Habitat Requirements	Potential for Occurrence
<b>Invertebrates</b>			
Conservancy fairy shrimp <i>Branchinecta conservatio</i>	FE/-	Endemic to the grasslands of the northern two-thirds of the Central Valley. Inhabits astatic pools located in swales formed by old, braided alluvium; filled by winter/spring rains, last until June.	<b>Absent.</b> No astatic pool habitat occurs within the Project area.
Vernal pool fairy shrimp <i>Branchinecta lynchi</i>	FT/-	Vernal pools, swales, ephemeral freshwater habitats, often grass or mud-bottomed swales, earth slump or basalt-flow depression pools in grasslands.	<b>Absent.</b> No vernal pool habitat occurs within the Project area.
Vernal pool tadpole shrimp <i>Lepidurus packardii</i>	FE/-	Inhabits vernal pools and swales in the Sacramento Valley containing clear to highly turbid water. Pools commonly found in grass-bottomed swales of unplowed grasslands.	<b>Absent.</b> No vernal pool habitat occurs within the Project area.
Valley elderberry longhorn beetle <i>Desmocerus californicus dimorphus</i>	FT/-	Occurs in riparian scrub only in the Central Valley. Requires blue elderberry ( <i>Sambucus mexicana</i> ) for breeding. Lays eggs in elderberries 2 to 8 inches in diameter. Often prefers "stressed" elderberries.	<b>Absent.</b> No elderberry ( <i>Sambucus</i> sp.) shrubs occur within the Project area.
Lange's metalmark butterfly <i>Apodemia mormo langei</i>	FE/-	Inhabits stabilized dunes along the San Joaquin River. Endemic to Antioch Dunes, Contra Costa County. Primary host plant is <i>Eriogonum nudum</i> var <i>auriculatum</i> ; feeds on nectar of other wildflowers, as well as host plant.	<b>Absent.</b> The Project area lacks this species host plant. In addition, the Project area does not provide suitable foraging habitat due to the lack of wildflowers.
Crotch bumble bee <i>Bombus crotchii</i>	-/CE	Coastal California east to the Sierra-Cascade crest and south into Mexico. Found in open grassland and scrub habitats. Food plant genera include <i>Antirrhinum</i> spp., <i>Phacelia</i> spp., <i>Clarkia</i> spp., <i>Dendromecon</i> spp., <i>Eschscholzia</i> spp., and <i>Eriogonum</i> spp.	<b>Absent.</b> The Project area does not provide suitable nesting or foraging habitat for this species.



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Common Name Scientific Name	Listing Status <sup>1</sup> (Fed/State)	Known Habitat Requirements	Potential for Occurrence
Western bumble bee <i>Bombus occidentalis</i>	-/CE	Meadows and grasslands with abundant floral resources throughout the mountains and northern coast of California. Nests in underground cavities including old rodent burrows in open west-southwest slopes bordered by trees.	<b>Absent.</b> The Project area does not provide suitable nesting or foraging habitat for this species.
<b>Fish</b>			
Steelhead – Central Valley DPS <i>Oncorhynchus mykiss irideus</i>	FT/-	Populations in the Sacramento and San Joaquin rivers and their tributaries.	<b>Absent.</b> The Project area does not provide suitable aquatic habitat for this species.
Delta Smelt <i>Hypomesus transpacificus</i>	FT/SE	Sacramento-San Joaquin Delta. Seasonally in Suisun Bay, Carquinez Strait & San Pablo Bay. Seldom found at salinities > 10 parts per thousand (ppt). Most often at salinities < 2ppt.	<b>Absent.</b> The Project area does not provide suitable aquatic habitat for this species.
Longfin smelt <i>Spirinchus thaleichthys</i>	C/ST	Euryhaline, nektonic & anadromous. Found in open waters of estuaries, mostly in middle or bottom of water column. Prefer salinities of 15-30 ppt but can be found in completely freshwater to almost pure seawater.	<b>Absent.</b> The Project area does not provide suitable aquatic habitat for this species.
Sacramento perch <i>Archoplites interruptus</i>	-/SSC	Historically found in the sloughs, slow-moving rivers, and lakes of the Central Valley. Aquatic vegetation essential for young.	<b>Absent.</b> The Project area does not provide suitable aquatic habitat for this species.
<b>Amphibians</b>			
California tiger salamander <i>Ambystoma californiense</i>	FT/ST	Central Valley DPS federally listed as threatened. Santa Barbara County and Sonoma County DPS federally listed as endangered. Needs underground refuges, especially ground squirrel burrows, and vernal pools or other seasonal water sources for breeding.	<b>Absent.</b> The Project area does not provide suitable aquatic or terrestrial habitat for this species.



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Common Name Scientific Name	Listing Status <sup>1</sup> (Fed/State)	Known Habitat Requirements	Potential for Occurrence
California red-legged frog <i>Rana draytonii</i>	FT/SSC	Requires perennial or near-perennial aquatic habitats, especially for breeding; often slow-moving streams, freshwater pools and ponds over 1-foot deep, often with overhanging vegetation; adjacent upland habitats are often used for temporary refuges or dispersal movements.	<b>Absent.</b> The Project area does not provide suitable aquatic or terrestrial habitat for this species.
Foothill yellow-legged frog <i>Rana boylei</i>	-/CT, SSC	Inhabits partly shaded, shallow streams and riffles with a rocky substrate in a variety of habitats. Needs cobble-sized substrate for egg-laying and at least 15 weeks of water to attain metamorphosis.	<b>Absent.</b> The Project area does not provide suitable aquatic or terrestrial habitat for this species.
<b>Reptiles</b>			
Northern California legless lizard <i>Anniella pulchra</i>	-/SSC	Sandy or loose loamy soils under sparse vegetation. Soil moisture is essential. They prefer soils with a high moisture content.	<b>Absent.</b> The Project area does not provide suitable habitat for this species.
Alameda whipsnake <i>Masticophis lateralis euryxanthus</i>	FT/ST	Typically found in chaparral and scrub habitats but will also use adjacent grassland, oak savanna and woodland habitats. Mostly south-facing slopes and ravines, with rock outcrops, deep crevices or abundant rodent burrows, where shrubs form a vegetative mosaic with oak trees and grasses.	<b>Absent.</b> Project area is outside the range of this species for this species.
California glossy snake <i>Arizona elegans occidentalis</i>	-/SSC	Patchily distributed from the eastern portion of San Francisco Bay, southern San Joaquin Valley, and the Coast, Transverse, and Peninsular ranges, south to Baja California. Generalist reported from a range of scrub and grassland habitats, often with loose or sandy soils.	<b>Absent.</b> The Project area does not provide suitable habitat for this species.
Giant gartersnake <i>Thamnophis gigas</i>	FT/ST	Prefers freshwater marsh and low gradient streams. Has adapted to drainage canals and irrigation ditches. This is the most aquatic of the gartersnakes in California.	<b>Absent.</b> The Project area does not provide suitable aquatic habitat for this species.



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Common Name Scientific Name	Listing Status <sup>1</sup> (Fed/State)	Known Habitat Requirements	Potential for Occurrence
Western pond turtle <i>Emys marmorata</i>	-/SSC	Slow water aquatic habitat with available basking sites. Hatchlings require shallow water with dense submergent or short emergent vegetation. Require an upland oviposition site near the aquatic site.	<b>Absent.</b> The Project area does not provide suitable aquatic habitat for this species.
<b>Birds</b>			
White-tailed kite <i>Elanus leucurus</i>	-/FP	Rolling foothills and valley margins with scattered oaks & river bottomlands or marshes next to deciduous woodland. Open grasslands, meadows, or marshes for foraging close to isolated, dense-topped trees for nesting and perching.	<b>Low.</b> Trees within the Project area do provide marginal nesting habitat. However, the site is surrounded by urban development with limited foraging habitat in the vicinity. No raptor nests were observed in the Project area or surrounding trees.
Swainson's hawk <i>Buteo swainsoni</i>	-/ST	Breeds in grasslands with scattered trees, juniper- page flats, riparian areas, savannahs, and agricultural or ranchlands with groves or lines of trees. Requires adjacent suitable foraging areas such as grasslands, or alfalfa or grain fields supporting rodent populations.	<b>Low.</b> Trees within the Project area do provide marginal nesting habitat. However, the site is surrounded by urban development with limited foraging habitat in the vicinity. No raptor nests were observed in the Project area or surrounding trees.
California Ridgway's rail <i>Rallus obsoletus</i>	FE/SE, FP	Found in salt and brackish marshes traversed by tidal sloughs in the vicinity of San Francisco Bay. Associated with abundant growths of pickleweed but feeds away from cover on invertebrates from mud-bottomed sloughs.	<b>Absent.</b> The Project area does not provide suitable nesting or foraging habitat for this species.
California black rail <i>Laterallus jamaicensis coturniculus</i>	-/ST	Freshwater marshes, wet meadows and shallow margins of saltwater marshes boarding larger bays. Requires dense vegetation for nesting habitat.	<b>Absent.</b> The Project area does not provide suitable nesting or foraging habitat for this species.
California least tern <i>Sternula antillarum browni</i>	FE/SE, FP	Nests along the coast from San Francisco Bay south to northern Baja California. Colonial breeder on bare or sparsely vegetated, flat substrates: sand beaches, alkali flats, landfills, or paved areas.	<b>Absent.</b> The Project area does not provide suitable nesting or foraging habitat for this species.





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Common Name Scientific Name	Listing Status <sup>1</sup> (Fed/State)	Known Habitat Requirements	Potential for Occurrence
Burrowing owl <i>Athene cunicularia</i>	-/SSC	Grasslands and ruderal habitats. Uses mammal burrows or other suitable underground cavities.	<b>Low.</b> Burrows along the northern portion of the Project area provide marginal nesting habitat for this species. However, a majority of the burrows were filled in with leaves, trash, and spider webs. No signs of burrowing owl were identified.
Loggerhead shrike <i>Lanius ludovicianus</i>	-/SSC	Broken woodlands, savannah, pinyon-juniper, Joshua tree, and riparian woodlands, desert oases, scrub & washes. Prefers open country for hunting, with perches for scanning, and fairly dense shrubs and brush for nesting.	<b>Low.</b> The Project area does not provide suitable nesting habitat for this species. The Project area does provide marginal foraging habitat for this species. However, the site is highly disturbed and this species is not expected to occur.
Bank swallow <i>Riparia riparia</i>	-/ST	Colonial nester; nests primarily in riparian and other lowland habitats west of the desert. Requires vertical banks/cliffs with fine-textured/sandy soils near streams, rivers, lakes, ocean to dig nesting hole.	<b>Absent.</b> The Project area does not provide suitable nesting or foraging habitat for this species.
Saltmarsh common yellowthroat <i>Geothlypis trichas sinuosa</i>	-/SSC	Resides in fresh and saltwater marshes and creeks of the San Francisco Bay region. Requires thick, continuous cover down to water surface for foraging; tall grasses, tule patches, willows for nesting.	<b>Absent.</b> The Project area does not provide suitable nesting or foraging habitat for this species.
Song sparrow ("Modesto" population) <i>Melospiza melodia</i>	-/SSC	Endemic to California, where it resides only in the north-central portion of the Central Valley. Occurs in emergent freshwater marshes dominated by tules and cattails, riparian willow thickets, riparian forests of valley oak with sufficient understory of blackberry, and vegetated irrigation canals and levees. Prefers moderately dense vegetation for nesting and exposed ground or leaf litter for foraging.	<b>Absent.</b> The Project area does not provide suitable nesting or foraging habitat for this species.
Suisun song sparrow <i>Melospiza melodia maxillaris</i>	-/SSC	Resides in brackish-water marshes surrounding Suisun Bay. Inhabits cattails, tules, and other sedges, and Salicornia; also known to frequent tangles bordering sloughs.	<b>Absent.</b> The Project area does not provide suitable nesting or foraging habitat for this species.



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Common Name Scientific Name	Listing Status <sup>1</sup> (Fed/State)	Known Habitat Requirements	Potential for Occurrence
Tricolored blackbird <i>Agelaius tricolor</i>	-/ST, SSC	Breeds near fresh water in dense emergent vegetation. Requires open water, protected nesting substrate, and foraging area with insect prey within a few kilometers of the colony.	<b>Absent.</b> The Project area does not provide suitable nesting or foraging habitat for this species.
<b>Mammals</b>			
Pallid bat <i>Antrozous pallidus</i>	-/SSC	Found in deserts, grasslands, shrublands, woodlands, and forests. Most common in open, dry habitats with rocky areas for roosting.	<b>Low.</b> The Project area includes a large old barn that may provide marginal roosting habitat for this species. However, the site is highly disturbed and this species is not expected to occur.
Western red bat <i>Lasiurus blossevillii</i>	-/SSC	Roosts primarily in trees, 2-40 ft above ground, from sea level up through mixed conifer forests. Prefers habitat edges and mosaics with trees that are protected from above and open below with open areas for foraging.	<b>Absent.</b> The Project area does not provide suitable roosting or foraging habitat for this species.
San Joaquin kit fox <i>Vulpes macrotis mutica</i>	FE/ST	Found in annual grasslands or grassy open stages with scattered shrubby vegetation. Needs loose-textured sandy soils for burrowing, and suitable prey base.	<b>Absent.</b> The Project area does not provide suitable denning or foraging habitat for this species.
American badger <i>Taxidea taxus</i>	-/SSC	Most abundant in drier, open stages of most shrub, forest, and herbaceous habitats, with friable soils. Needs open, uncultivated ground. Preys on burrowing rodents. Digs burrows.	<b>Absent.</b> The Project area does provide marginal burrowing habitat along the northern portion of the Project area where existing burrows occur. However, the site is highly disturbed and surrounded by urban development and this species is not expected to occur.
Salt-marsh harvest mouse <i>Reithrodontomys raviventris</i>	FE/SE, FP	Occurs only in the saline emergent wetlands of San Francisco Bay and its tributaries. Primary habitat is pickleweed.	<b>Absent.</b> No saline emergent wetlands occur within the Project Area.

<sup>1</sup>Federal and State Status Codes

- = No status, or not applicable

FE = Listed as endangered under the Federal Endangered Species Act (FESA)

FT = Listed as threatened under FESA

SE = Listed as endangered under the California Endangered Species Act (CESA)



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ST = Listed as threatened under CESA

SSC = Designated as a Species of Special Concern by CDFW under the California Environmental Quality Act (CEQA)

FP = Fully Protected under the California Fish and Game Code (F.G.C.)

C = Candidate for listing as either endangered or threatened under FESA

CE = Candidate for listing as endangered under CESA

CT = Candidate for listing as threatened under CESA



## 6.0 RESULTS: BIOLOGICAL RESOURCES AND IMPACTS

### 6.1 HABITATS AND NATURAL COMMUNITIES OF CONCERN

The Project area does not contain any sensitive natural communities as classified by the CDFW. In addition, no aquatic habitats were identified within or adjacent to the Project area that could be considered WOTUS and subject to the USACE and RWQCB jurisdiction under Sections 404 and 401 of the CWA, or subject to CDFW jurisdiction under Section 1600 of the California FGC.

#### 6.1.1 Critical Habitat

The Project area is within USFWS designated critical habitat for delta smelt (*Hypomesus transpacificus*). The Project area does not provide suitable aquatic habitat for delta smelt; therefore, no impact to this species critical habitat will occur.

### 6.2 SPECIAL-STATUS PLANT SPECIES

There is no potential habitat in the Project area for special-status plant species with occurrences within a five-mile radius and no special-status plant species were observed during the reconnaissance-level biological survey conducted on June 25, 2021. The annual grassland habitat within the Project area is highly disturbed with vehicle tire tracks throughout the grassland. In addition, the site is dominated by non-native and invasive plant species including foxtail barley and Italian rye grass. Based on the lack of suitable habitat and no special-status plant species having a moderate or high potential to occur within the Project area, no impacts to special-status plant species are expected to occur.

### 6.3 SPECIAL-STATUS ANIMAL SPECIES

Although there are CNDDDB occurrence records within 5 miles of the Project area for special-status wildlife species, the Project area does not provide suitable habitat (e.g., aquatic features, woodland) for potential special-status wildlife species to occur. No special-status animal species have a high or moderate potential to occur within the Project area. Five species, including white-tailed kite (*Elanus leucurus*), Swainson's hawk (*Buteo swainsoni*), burrowing owl (*Athene cunicularia*), Loggerhead shrike (*Lanius ludovicianus*), and pallid bat (*Antrozous pallidus*), have a low potential to occur in the Project area. Marginal nesting and roosting habitat for these species occurs within the Project area, however, the site is highly disturbed and surrounded by urban development with limited foraging habitat in the vicinity. The Project area does provide suitable nesting habitat for migratory birds and is discussed in detail below.

#### 6.3.1 Migratory Nesting Birds

Trees within the Project area could provide suitable nesting habitat for migratory birds protected under the MBTA or California FGC. In addition, the old barn has a couple of boards missing on two sides, allowing for access inside the barn for potential nesting habitat. During the reconnaissance-level biological survey, whitewash was observed on structural wooden beams within the barn, however, no nesting activity was observed. The Project anticipates the



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removal of all existing trees and the barn from the Project site. Removal of these features during the typical nesting season (February 1 through September 1) could have an impact to nesting migratory birds.

If tree removal occurs during the typical nesting season (February 1 through September 1), then the Project will implement avoidance and minimization measures to avoid impacts to migratory nesting birds. These measures include conducting a preconstruction nesting bird survey during the nesting season to document any nests on the Project site and implementation of protective buffers around documented nests during construction to minimize disturbance to nesting birds during construction.



## 7.0 REFERENCES

- Baldwin, B. G., D. H. Goldman, D. J. Keil, R. Patterson, T. J. Rosatti, and D. H. Wilken, eds. 2012. The Jepson Manual: Vascular Plants of California. 2nd edition. University of California Press. Berkeley, California.
- Bolster, B.C., editor. 1998. Terrestrial Mammal Species of Special Concern in California. Draft Final Report prepared by P.V. Brylski, P.W. Collins, E.D. Pierson, W.E. Rainey and T.E. Kucera. Report submitted to California Department of Fish and Game Wildlife Management Division, Nongame Bird and Mammal Conservation Program for Contract No. FG3146WM.
- California Department of Fish and Wildlife (CDFW). 2014. California Wildlife Habitat Relationships (CWHR), Version 9.0 (personal computer program). California Department of Fish and Wildlife, California Interagency Wildlife Task Group. <https://www.wildlife.ca.gov/data/cwhr>. Accessed July 2021.
- CDFW. 2021a. Rarefind 5. California Natural Diversity Database (CNDDDB). California Natural Communities List. Biogeographic Data Branch, California Department of Fish and Wildlife. <https://www.wildlife.ca.gov/Data/CNDDDB/Maps-and-Dat>. Accessed July 2021.
- CDFW. 2021b. Special Animals List. CDFW, CNDDDB. Periodic Publication. 66 pp. Updated July 2021. <https://www.wildlife.ca.gov/Data/CNDDDB/Plants-and-Animals>. Accessed June 2021.
- CDFW. 2021c. State and Federally Listed Endangered and Threatened Animals of California. CDFW, Biogeographic Data Branch, CNDDDB. Updated July 2021. <https://www.wildlife.ca.gov/Data/CNDDDB/Plants-and-Animals>. Accessed July 2021.
- CDFW. 2021d. State and Federally Listed Endangered, Threatened and Rare Plants of California. California Department of Fish and Wildlife, Biogeographic Data Branch, CNDDDB. Updated July 2021. <https://www.wildlife.ca.gov/Data/CNDDDB/Plants-and-Animals>. Accessed July 2021.
- CDFW 2021e. Special Vascular Plants, Bryophytes, and Lichens List. CDFW, CNDDDB. Periodic Publication. 127 pp. Updated July 2021. <https://www.wildlife.ca.gov/Data/CNDDDB/Plants-and-Animals>. Accessed July 2021.
- CDFW. 2021f. California Natural Communities List. Biogeographic Data Branch, California Department of Fish and Wildlife. Updated September 2020. <https://www.wildlife.ca.gov/Data/VegCAMP/Natural-Communities>. Accessed July 2021.
- Calflora. 2021. Information on wild California plants. <<https://www.calflora.org/>>. Accessed June 2021.
- California Invasive Species Council (Cal-IPC). 2021. California Invasive Plant Inventory. Cal-IPC Inventory Online. Cal-IPC: Berkeley, CA. <https://www.cal-ipc.org/plants/inventory/>. Accessed July 2021.
- California Native Plant Society (CNPS). 2021. Inventory of Rare And Endangered Plants (Online Edition, V8-02). Sacramento, California. <http://www.rareplants.cnps.org>. Accessed June 2021.
- Google Earth. 2021. Map showing the Project area. Google Earth, 2020. [earth.google.com/web/](http://earth.google.com/web/). Accessed July 2021.



## 5200 Lone Tree Way Gas Station Project Biological Resources Technical Report

Mayer, K.E., and W.F. Laudenslayer, Jr., eds. 1988. A Guide to Wildlife Habitats Of California. Sacramento: California Department of Forestry and Fire Protection (CAL FIRE).

National Oceanic and Atmospheric Administration (NOAA) Regional Climate Centers. 2021. AgACIS Climate Data for Antioch Pumping Plant #3. Applied Climate Information System WETs Table. Available online at: <http://agacis.rcc-acis.org/?fips=06013>. Accessed July 2021.

Sawyer, J. O., T. Keeler-Wolf, and J. M. Evans. 2009. A Manual of California Vegetation, 2nd Edition. CNPS, Sacramento, California.

Spencer, W.D., P. Beier, K. Penrod, K. Winters, C. Paulman, H. Rustigian-Romsos, J. Strittholt, M. Parisi, and A. Pettler. 2010. California Essential Habitat Connectivity Project: A Strategy for Conserving a Connected California. Prepared for California Department of Transportation, California Department of Fish and Game, and Federal Highways Administration. Available online at: <https://www.wildlife.ca.gov/Conservation/Planning/Connectivity/CEHC>. Accessed July 6, 2021.

USFWS. 2021a. Trust Resources Report. Information for Planning and Consultation (IPaC). <https://ecos.fws.gov/ipac/> Accessed June 2021.

USFWS. 2021b. USFWS National Wetlands Inventory (NWI). <https://www.fws.gov/wetlands/>. Accessed June 2021.



# Figures



**Figure 1. Project Location**

**Figure 2. CNDDDB Special-Status Plant Occurrences**

**Figure 3. CNDDDB Special-Status Wildlife Occurrences**

# **APPENDIX A**

**USFWS, CNDDDB and CNPS Database Results**



# Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database



Query Criteria: Quad (Antioch North (3812117) OR Antioch South (3712187) OR Jersey Island (3812116) OR Brentwood (3712186)) AND Taxonomic Group (Ferns OR Gymnosperms OR Monocots OR Dicots OR Lichens OR Bryophytes)

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Amsinckia grandiflora</i> large-flowered fiddleneck	PDBOR01050	Endangered	Endangered	G1	S1	1B.1
<i>Anomobryum julaceum</i> slender silver moss	NBMUS80010	None	None	G5?	S2	4.2
<i>Arctostaphylos auriculata</i> Mt. Diablo manzanita	PDERI04040	None	None	G2	S2	1B.3
<i>Astragalus tener</i> var. <i>tener</i> alkali milk-vetch	PDFAB0F8R1	None	None	G2T1	S1	1B.2
<i>Atriplex depressa</i> brittlescale	PDCHE042L0	None	None	G2	S2	1B.2
<i>Blepharizonia plumosa</i> big tarplant	PDAST1C011	None	None	G1G2	S1S2	1B.1
<i>Calochortus pulchellus</i> Mt. Diablo fairy-lantern	PMLIL0D160	None	None	G2	S2	1B.2
<i>Centromadia parryi</i> ssp. <i>congdonii</i> Congdon's tarplant	PDAST4R0P1	None	None	G3T1T2	S1S2	1B.1
<i>Chloropyron molle</i> ssp. <i>molle</i> soft salty bird's-beak	PDSCR0J0D2	Endangered	Rare	G2T1	S1	1B.2
<i>Cicuta maculata</i> var. <i>bolanderi</i> Bolander's water-hemlock	PDAP10M051	None	None	G5T4T5	S2?	2B.1
<i>Cryptantha hooveri</i> Hoover's cryptantha	PDBOR0A190	None	None	GH	SH	1A
<i>Downingia pusilla</i> dwarf downingia	PDCAM060C0	None	None	GU	S2	2B.2
<i>Eriogonum nudum</i> var. <i>psychicola</i> Antioch Dunes buckwheat	PDPGN0849Q	None	None	G5T1	S1	1B.1
<i>Eriogonum truncatum</i> Mt. Diablo buckwheat	PDPGN085Z0	None	None	G1	S1	1B.1
<i>Eryngium jepsonii</i> Jepson's coyote-thistle	PDAP10Z130	None	None	G2	S2	1B.2
<i>Erysimum capitatum</i> var. <i>angustatum</i> Contra Costa wallflower	PDBRA16052	Endangered	Endangered	G5T1	S1	1B.1
<i>Eschscholzia rhombipetala</i> diamond-petaled California poppy	PDPAP0A0D0	None	None	G1	S1	1B.1
<i>Extriplex joaquinana</i> San Joaquin spearscale	PDCHE041F3	None	None	G2	S2	1B.2



Selected Elements by Scientific Name  
California Department of Fish and Wildlife  
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Fritillaria agrestis</i> stinkbells	PMLIL0V010	None	None	G3	S3	4.2
<i>Fritillaria liliacea</i> fragrant fritillary	PMLIL0V0C0	None	None	G2	S2	1B.2
<i>Helianthella castanea</i> Diablo helianthella	PDAST4M020	None	None	G2	S2	1B.2
<i>Hesperolinon breweri</i> Brewer's western flax	PDLIN01030	None	None	G2	S2	1B.2
<i>Hibiscus lasiocarpus var. occidentalis</i> woolly rose-mallow	PDMAL0H0R3	None	None	G5T3	S3	1B.2
<i>Lasthenia conjugens</i> Contra Costa goldfields	PDAST5L040	Endangered	None	G1	S1	1B.1
<i>Lathyrus jepsonii var. jepsonii</i> Delta tule pea	PDFAB250D2	None	None	G5T2	S2	1B.2
<i>Lilaeopsis masonii</i> Mason's lilaeopsis	PDAPI19030	None	Rare	G2	S2	1B.1
<i>Limosella australis</i> Delta mudwort	PDSCR10030	None	None	G4G5	S2	2B.1
<i>Madia radiata</i> showy golden madia	PDAST650E0	None	None	G3	S3	1B.1
<i>Malacothamnus hallii</i> Hall's bush-mallow	PDMAL0Q0F0	None	None	G2	S2	1B.2
<i>Navarretia nigelliformis ssp. radians</i> shining navarretia	PDPLM0C0J2	None	None	G4T2	S2	1B.2
<i>Oenothera deltooides ssp. howellii</i> Antioch Dunes evening-primrose	PDONA0C0B4	Endangered	Endangered	G5T1	S1	1B.1
<i>Plagiobothrys hystriculus</i> bearded popcornflower	PDBOR0V0H0	None	None	G2	S2	1B.1
<i>Potamogeton zosteriformis</i> eel-grass pondweed	PM POT03160	None	None	G5	S3	2B.2
<i>Senecio aphanactis</i> chaparral ragwort	PDAST8H060	None	None	G3	S2	2B.2
<i>Sidalcea keckii</i> Keck's checkerbloom	PD MAL110D0	Endangered	None	G2	S2	1B.1
<i>Symphotrichum lentum</i> Suisun Marsh aster	PDASTE8470	None	None	G2	S2	1B.2
<i>Tropidocarpum capparideum</i> caper-fruited tropidocarpum	PDBRA2R010	None	None	G1	S1	1B.1
<i>Viburnum ellipticum</i> oval-leaved viburnum	PDCPR07080	None	None	G4G5	S3?	2B.3

Record Count: 38



# Selected Elements by Scientific Name

## California Department of Fish and Wildlife

### California Natural Diversity Database



**Query Criteria:** Quad (Antioch North (3812117) OR Antioch South (3712187) OR Jersey Island (3812116) OR Brentwood (3712186)) AND Taxonomic Group (Fish OR Amphibians OR Reptiles OR Birds OR Mammals OR Crustaceans OR Insects)

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Agelaius tricolor</i> tricolored blackbird	ABPBXB0020	None	Threatened	G1G2	S1S2	SSC
<i>Ambystoma californiense</i> California tiger salamander	AAAAA01180	Threatened	Threatened	G2G3	S2S3	WL
<i>Andrena blennospermatis</i> Blennosperma vernal pool andrenid bee	IIHYM35030	None	None	G2	S2	
<i>Anniella pulchra</i> Northern California legless lizard	ARACC01020	None	None	G3	S3	SSC
<i>Anthicus antiochensis</i> Antioch Dunes anthicid beetle	IICOL49020	None	None	G1	S1	
<i>Antrozous pallidus</i> pallid bat	AMACC10010	None	None	G4	S3	SSC
<i>Apodemia mormo langei</i> Lange's metalmark butterfly	IILEPH7012	Endangered	None	G5T1	S1	
<i>Archopites interruptus</i> Sacramento perch	AFCQB07010	None	None	G2G3	S1	SSC
<i>Ardea herodias</i> great blue heron	ABNGA04010	None	None	G5	S4	
<i>Arizona elegans occidentalis</i> California glossy snake	ARADB01017	None	None	G5T2	S2	SSC
<i>Athene cunicularia</i> burrowing owl	ABNSB10010	None	None	G4	S3	SSC
<i>Bombus crotchii</i> Crotch bumble bee	IIHYM24480	None	Candidate Endangered	G3G4	S1S2	
<i>Bombus occidentalis</i> western bumble bee	IIHYM24250	None	Candidate Endangered	G2G3	S1	
<i>Branchinecta conservatio</i> Conservancy fairy shrimp	ICBRA03010	Endangered	None	G2	S2	
<i>Branchinecta lynchi</i> vernal pool fairy shrimp	ICBRA03030	Threatened	None	G3	S3	
<i>Branchinecta mesovallensis</i> midvalley fairy shrimp	ICBRA03150	None	None	G2	S2S3	
<i>Buteo swainsoni</i> Swainson's hawk	ABNKC19070	None	Threatened	G5	S3	
<i>Coelus gracilis</i> San Joaquin dune beetle	IICOL4A020	None	None	G1	S1	



Selected Elements by Scientific Name  
California Department of Fish and Wildlife  
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<b><i>Efferia antiochi</i></b> Antioch efferian robberfly	IIDIP07010	None	None	G1G2	S1S2	
<b><i>Elanus leucurus</i></b> white-tailed kite	ABNKC06010	None	None	G5	S3S4	FP
<b><i>Emys marmorata</i></b> western pond turtle	ARAAD02030	None	None	G3G4	S3	SSC
<b><i>Eucerceris ruficeps</i></b> redheaded sphecid wasp	IIHYM18010	None	None	G1G3	S1S2	
<b><i>Geothlypis trichas sinuosa</i></b> saltmarsh common yellowthroat	ABPBX1201A	None	None	G5T3	S3	SSC
<b><i>Gonidea angulata</i></b> western ridged mussel	IMBIV19010	None	None	G3	S1S2	
<b><i>Helminthoglypta nickliniana bridgesi</i></b> Bridges' coast range shoulderband	IMGASC2362	None	None	G3T1	S1S2	
<b><i>Hygrotus curvipes</i></b> curved-foot hygrotus diving beetle	IICOL38030	None	None	G1	S1	
<b><i>Hypomesus transpacificus</i></b> Delta smelt	AFCHB01040	Threatened	Endangered	G1	S1	
<b><i>Idiostatus middlekauffi</i></b> Middlekauff's shieldback katydid	IORT31010	None	None	G1G2	S1	
<b><i>Lanius ludovicianus</i></b> loggerhead shrike	ABPBR01030	None	None	G4	S4	SSC
<b><i>Lasiurus blossevillii</i></b> western red bat	AMACC05060	None	None	G4	S3	SSC
<b><i>Lasiurus cinereus</i></b> hoary bat	AMACC05030	None	None	G3G4	S4	
<b><i>Laterallus jamaicensis coturniculus</i></b> California black rail	ABNME03041	None	Threatened	G3G4T1	S1	FP
<b><i>Lepidurus packardi</i></b> vernal pool tadpole shrimp	ICBRA10010	Endangered	None	G4	S3S4	
<b><i>Linderiella occidentalis</i></b> California linderiella	ICBRA06010	None	None	G2G3	S2S3	
<b><i>Lytta molesta</i></b> molestan blister beetle	IICOL4C030	None	None	G2	S2	
<b><i>Masticophis lateralis euryxanthus</i></b> Alameda whipsnake	ARADB21031	Threatened	Threatened	G4T2	S2	
<b><i>Melospiza melodia</i></b> song sparrow ("Modesto" population)	ABPBXA3010	None	None	G5	S3?	SSC
<b><i>Melospiza melodia maxillaris</i></b> Suisun song sparrow	ABPBXA301K	None	None	G5T3	S3	SSC
<b><i>Metapogon hurdi</i></b> Hurd's metapogon robberfly	IIDIP08010	None	None	G1G2	S1S2	



**Selected Elements by Scientific Name**  
**California Department of Fish and Wildlife**  
**California Natural Diversity Database**



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<b><i>Myrmosula pacifica</i></b> Antioch multilid wasp	IIHYM15010	None	None	GH	SH	
<b><i>Oncorhynchus mykiss irideus pop. 11</i></b> steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	G5T2Q	S2	
<b><i>Perdita scitula antiochensis</i></b> Antioch andrenid bee	IIHYM01031	None	None	G1T1	S1	
<b><i>Perognathus inornatus</i></b> San Joaquin pocket mouse	AMAFD01060	None	None	G2G3	S2S3	
<b><i>Phalacrocorax auritus</i></b> double-crested cormorant	ABNFD01020	None	None	G5	S4	WL
<b><i>Philanthus nasalis</i></b> Antioch specid wasp	IIHYM20010	None	None	G1	S1	
<b><i>Rana boylei</i></b> foothill yellow-legged frog	AAABH01050	None	Endangered	G3	S3	SSC
<b><i>Rana draytonii</i></b> California red-legged frog	AAABH01022	Threatened	None	G2G3	S2S3	SSC
<b><i>Reithrodontomys raviventris</i></b> salt-marsh harvest mouse	AMAFF02040	Endangered	Endangered	G1G2	S1S2	FP
<b><i>Riparia riparia</i></b> bank swallow	ABPAU08010	None	Threatened	G5	S2	
<b><i>Sphecodogastra antiochensis</i></b> Antioch Dunes halcetid bee	IIHYM78010	None	None	G1	S1	
<b><i>Spirinchus thaleichthys</i></b> longfin smelt	AFCHB03010	Candidate	Threatened	G5	S1	
<b><i>Taxidea taxus</i></b> American badger	AMAJF04010	None	None	G5	S3	SSC
<b><i>Thamnophis gigas</i></b> giant gartersnake	ARADB36150	Threatened	Threatened	G2	S2	
<b><i>Vulpes macrotis mutica</i></b> San Joaquin kit fox	AMAJA03041	Endangered	Threatened	G4T2	S2	

**Record Count: 54**

## Inventory of Rare and Endangered Plants of California



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Search:

▲ SCIENTIFIC NAME	COMMON NAME	BLOOMING PERIOD	FED LIST	STATE LIST	CA RARE PLANT RANK
<a href="#">Amsinckia grandiflora</a>	large-flowered fiddleneck	(Mar)Apr-May	FE	CE	1B.1
<a href="#">Anomobryum julaceum</a>	slender silver moss		None	None	4.2
<a href="#">Arctostaphylos auriculata</a>	Mt. Diablo manzanita	Jan-Mar	None	None	1B.3
<a href="#">Arctostaphylos manzanita ssp. laevigata</a>	Contra Costa manzanita	Jan-Mar(Apr)	None	None	1B.2
<a href="#">Astragalus tener var. tener</a>	alkali milk-vetch	Mar-Jun	None	None	1B.2
<a href="#">Atriplex coronata var. coronata</a>	crownscale	Mar-Oct	None	None	4.2
<a href="#">Atriplex depressa</a>	brittlescale	Apr-Oct	None	None	1B.2
<a href="#">Blepharizonia plumosa</a>	big tarplant	Jul-Oct	None	None	1B.1
<a href="#">Calandrinia breweri</a>	Brewer's calandrinia	(Jan)Mar-Jun	None	None	4.2
<a href="#">Calochortus pulchellus</a>	Mt. Diablo fairy-lantern	Apr-Jun	None	None	1B.2
<a href="#">Centromadia parryi ssp. congdonii</a>	Congdon's tarplant	May-Oct(Nov)	None	None	1B.1
<a href="#">Chloropyron molle ssp. molle</a>	soft salty bird's-beak	Jun-Nov	FE	CR	1B.2
<a href="#">Cicuta maculata var. bolanderi</a>	Bolander's water-hemlock	Jul-Sep	None	None	2B.1
<a href="#">Convolvulus simulans</a>	small-flowered morning-glory	Mar-Jul	None	None	4.2
<a href="#">Cryptantha hooveri</a>	Hoover's cryptantha	Apr-May	None	None	1A
<a href="#">Downingia pusilla</a>	dwarf downingia	Mar-May	None	None	2B.2
<a href="#">Eleocharis parvula</a>	small spikerush	(Apr)Jun-Aug(Sep)	None	None	4.3
<a href="#">Eriogonum nudum var. psychicola</a>	Antioch Dunes buckwheat	Jul-Oct	None	None	1B.1
<a href="#">Eriogonum truncatum</a>	Mt. Diablo buckwheat	Apr-Sep(Nov-Dec)	None	None	1B.1
<a href="#">Eriophyllum jepsonii</a>	Jepson's woolly sunflower	Apr-Jun	None	None	4.3
<a href="#">Eryngium jepsonii</a>	Jepson's coyote-thistle	Apr-Aug	None	None	1B.2
<a href="#">Erysimum capitatum var. angustatum</a>	Contra Costa wallflower	Mar-Jul	FE	CE	1B.1
<a href="#">Eschscholzia rhombipetala</a>	diamond-petaled California poppy	Mar-Apr	None	None	1B.1
<a href="#">Extriplex joaquinana</a>	San Joaquin spearscale	Apr-Oct	None	None	1B.2
<a href="#">Fritillaria agrestis</a>	stinkbells	Mar-Jun	None	None	4.2



<u>SCIENTIFIC NAME</u>	COMMON NAME	BLOOMING PERIOD	FED LIST	STATE LIST	RARE PLANT RANK
<i>Fritillaria liliacea</i>	fragrant fritillary	Feb-Apr	None	None	4.2
<i>Galium andrewsii</i> ssp. <i>gatense</i>	phlox-leaf serpentine bedstraw	Apr-Jul	None	None	4.2
<i>Helianthella castanea</i>	Diablo helianthella	Mar-Jun	None	None	1B.2
<i>Hesperervax caulescens</i>	hogwallow starfish	Mar-Jun	None	None	4.2
<i>Hesperolinon breweri</i>	Brewer's western flax	May-Jul	None	None	1B.2
<i>Hibiscus lasiocarpus</i> var. <i>occidentalis</i>	woolly rose-mallow	Jun-Sep	None	None	1B.2
<i>Lasthenia conjugens</i>	Contra Costa goldfields	Mar-Jun	FE	None	1B.1
<i>Lathyrus jepsonii</i> var. <i>jepsonii</i>	Delta tule pea	May-Jul(Aug-Sep)	None	None	1B.2
<i>Lilaeopsis masonii</i>	Mason's lilaeopsis	Apr-Nov	None	CR	1B.1
<i>Limosella australis</i>	Delta mudwort	May-Aug	None	None	2B.1
<i>Lupinus albifrons</i> var. <i>abramsii</i>	Abrams' lupine	Apr-Jun	None	None	3.2
<i>Madia radiata</i>	showy golden madia	Mar-May	None	None	1B.1
<i>Malacothamnus hallii</i>	Hall's bush-mallow	(Apr)May-Sep(Oct)	None	None	1B.2
<i>Navarretia heterandra</i>	Tehama navarretia	Apr-Jun	None	None	4.3
<i>Navarretia nigelliformis</i> ssp. <i>radians</i>	shining navarretia	(Mar)Apr-Jul	None	None	1B.2
<i>Oenothera deltooides</i> ssp. <i>howellii</i>	Antioch Dunes evening-primrose	Mar-Sep	FE	CE	1B.1
<i>Plagiobothrys hystriculus</i>	bearded popcornflower	Apr-May	None	None	1B.1
<i>Potamogeton zosteriformis</i>	eel-grass pondweed	Jun-Jul	None	None	2B.2
<i>Senecio aphanactis</i>	chaparral ragwort	Jan-Apr(May)	None	None	2B.2
<i>Senecio hydrophiloides</i>	sweet marsh ragwort	May-Aug	None	None	4.2
<i>Sidalcea keckii</i>	Keck's checkerbloom	Apr-May(Jun)	FE	None	1B.1
<i>Symphotrichum lentum</i>	Suisun Marsh aster	(Apr)May-Nov	None	None	1B.2
<i>Tropidocarpum capparideum</i>	caper-fruited tropidocarpum	Mar-Apr	None	None	1B.1
<i>Viburnum ellipticum</i>	oval-leaved viburnum	May-Jun	None	None	2B.3

Showing 1 to 49 of 49 entries

**CONTACT US**

Send questions and comments to [rareplants@cnps.org](mailto:rareplants@cnps.org).

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## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Sacramento Fish And Wildlife Office  
Federal Building  
2800 Cottage Way, Room W-2605  
Sacramento, CA 95825-1846  
Phone: (916) 414-6600 Fax: (916) 414-6713

In Reply Refer To:

June 23, 2021

Consultation Code: 08ESMF00-2021-SLI-2152

Event Code: 08ESMF00-2021-E-06242

Project Name: 5200 Lone Tree Way Gas Station Project

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

### To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, under the jurisdiction of the U.S. Fish and Wildlife Service (Service) that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the Service under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

Please follow the link below to see if your proposed project has the potential to affect other species or their habitats under the jurisdiction of the National Marine Fisheries Service:

[http://www.nwr.noaa.gov/protected\\_species/species\\_list/species\\_lists.html](http://www.nwr.noaa.gov/protected_species/species_list/species_lists.html)

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to

utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan ([http://www.fws.gov/windenergy/eagle\\_guidance.html](http://www.fws.gov/windenergy/eagle_guidance.html)). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at:

<http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>;

<http://www.towerkill.com>; and

[www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html](http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html).

<http://>

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
-

## Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

**Sacramento Fish And Wildlife Office**

Federal Building

2800 Cottage Way, Room W-2605

Sacramento, CA 95825-1846

(916) 414-6600

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## Project Summary

Consultation Code: 08ESMF00-2021-SLI-2152

Event Code: 08ESMF00-2021-E-06242

Project Name: 5200 Lone Tree Way Gas Station Project

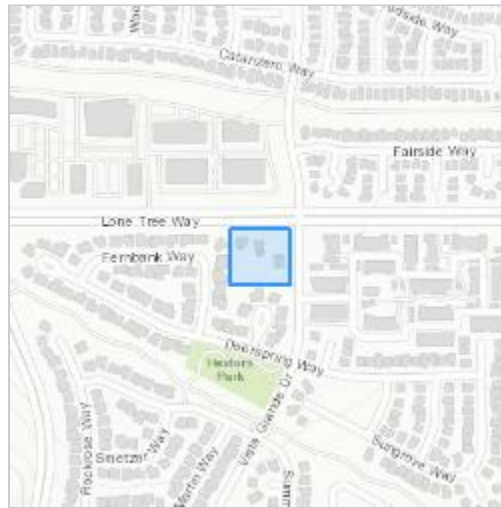
Project Type: DEVELOPMENT

Project Description: The project proposes to build a gas station located at 5200 Lone Tree Way.

Project Location:

Approximate location of the project can be viewed in Google Maps: [https://](https://www.google.com/maps/@37.96116805,-121.755386,14z)

[www.google.com/maps/@37.96116805,-121.755386,14z](https://www.google.com/maps/@37.96116805,-121.755386,14z)



Counties: Contra Costa County, California

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## Endangered Species Act Species

There is a total of 14 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

### Mammals

NAME	STATUS
San Joaquin Kit Fox <i>Vulpes macrotis mutica</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/2873">https://ecos.fws.gov/ecp/species/2873</a>	Endangered

### Birds

NAME	STATUS
California Clapper Rail <i>Rallus longirostris obsoletus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/4240">https://ecos.fws.gov/ecp/species/4240</a>	Endangered
California Least Tern <i>Sterna antillarum browni</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/8104">https://ecos.fws.gov/ecp/species/8104</a>	Endangered

### Reptiles

NAME	STATUS
Alameda Whipsnake (=striped Racer) <i>Masticophis lateralis euryxanthus</i> There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <a href="https://ecos.fws.gov/ecp/species/5524">https://ecos.fws.gov/ecp/species/5524</a>	Threatened
Giant Garter Snake <i>Thamnophis gigas</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/4482">https://ecos.fws.gov/ecp/species/4482</a>	Threatened

## Amphibians

NAME	STATUS
California Red-legged Frog <i>Rana draytonii</i> There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <a href="https://ecos.fws.gov/ecp/species/2891">https://ecos.fws.gov/ecp/species/2891</a>	Threatened
California Tiger Salamander <i>Ambystoma californiense</i> Population: U.S.A. (Central CA DPS) There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <a href="https://ecos.fws.gov/ecp/species/2076">https://ecos.fws.gov/ecp/species/2076</a>	Threatened

## Fishes

NAME	STATUS
Delta Smelt <i>Hypomesus transpacificus</i> There is <b>final</b> critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/321">https://ecos.fws.gov/ecp/species/321</a>	Threatened

## Insects

NAME	STATUS
Valley Elderberry Longhorn Beetle <i>Desmocerus californicus dimorphus</i> There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <a href="https://ecos.fws.gov/ecp/species/7850">https://ecos.fws.gov/ecp/species/7850</a>	Threatened

## Crustaceans

NAME	STATUS
Conservancy Fairy Shrimp <i>Branchinecta conservatio</i> There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <a href="https://ecos.fws.gov/ecp/species/8246">https://ecos.fws.gov/ecp/species/8246</a>	Endangered
Vernal Pool Fairy Shrimp <i>Branchinecta lynchi</i> There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <a href="https://ecos.fws.gov/ecp/species/498">https://ecos.fws.gov/ecp/species/498</a>	Threatened
Vernal Pool Tadpole Shrimp <i>Lepidurus packardii</i> There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <a href="https://ecos.fws.gov/ecp/species/2246">https://ecos.fws.gov/ecp/species/2246</a>	Endangered

## Flowering Plants

NAME	STATUS
Antioch Dunes Evening-primrose <i>Oenothera deltoides ssp. howellii</i> There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <a href="https://ecos.fws.gov/ecp/species/5970">https://ecos.fws.gov/ecp/species/5970</a>	Endangered
Contra Costa Goldfields <i>Lasthenia conjugens</i> There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <a href="https://ecos.fws.gov/ecp/species/7058">https://ecos.fws.gov/ecp/species/7058</a>	Endangered

## Critical habitats

There is 1 critical habitat wholly or partially within your project area under this office's jurisdiction.

NAME	STATUS
Delta Smelt <i>Hypomesus transpacificus</i> <a href="https://ecos.fws.gov/ecp/species/321#crithab">https://ecos.fws.gov/ecp/species/321#crithab</a>	Final





# **APPENDIX B**

## **Representative Site Photos**





**Photo 1.** Ruderal habitat within the southeast portion of the Project area.



**Photo 4.** Annual grassland north of the old barn.



**Photo 2.** Old barn located between ruderal and annual grassland habitat.



**Photo 5.** Urban habitat with landscaped trees and asphalt driveway.



**Photo 3.** Annual grassland habitat within the northeast portion of the Project area. Multiple tire tracks observed.



**Photo 6.** Missing boards on the west side of the old barn.



# **APPENDIX C**

## **Observed Plant and Wildlife Species Tables**

**Table C1. Plant Species Observed on June 25, 2021**

<b>Scientific Name</b>	<b>Common Name</b>	<b>Native/Non-Native</b>	<b>Cal-IPC Level</b>
<i>Erigeron bonariensis</i>	Flax-leaved horseweed	Non-native	
<i>Festuca perennis</i>	Italian rye grass	Non-native	Moderate
<i>Heterotheca grandiflora</i>	Telegraph weed	Native	
<i>Hordeum murinum</i>	Foxtail barley	Non-native	Moderate
<i>Juglans hindsii</i>	Northern California black walnut	Native	
<i>Lactuca serriola</i>	Prickly lettuce	Non-native	
<i>Malvella leprosa</i>	Alkali mallow	Native	
<i>Platanus racemosa</i>	California sycamore	Native	
<i>Salsola tragus</i>	Prickly Russian thistle	Non-native	Limited
<i>Sonchus oleraceus</i>	Common sow thistle	Non-native	
<i>Vitis</i> sp.	Grapevine sp.	Non-native	
--	Various landscape tree species	Non-native	

**Table C2. Wildlife Observed on June 25, 2021**

<b>Scientific Name</b>	<b>Common Name</b>
<b>Reptiles</b>	
<i>Sceloporus occidentalis</i>	Western fence lizard
<b>Birds</b>	
<i>Corvus brachyrhynchos</i>	American Crow
<i>Mimus polyglottos</i>	Northern Mockingbird
<i>Passer domesticus</i>	House Sparrow





**Appendix C**  
**Cultural Resources Report**



**Cultural Resources Technical Report  
for the 5200 Lone Tree Way  
United Pacific Gas Station Project**

August 27, 2021

Prepared for:

City of Antioch

Prepared by:

Stantec Consulting Services Inc.

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## Executive Summary

Stantec Consulting Services Inc. (Stantec) prepared this Cultural Resources Technical Report on behalf of the City of Antioch for the proposed 5200 Lone Tree Way United Pacific Gas Station Project (Project). United Pacific (Applicant) proposes to develop a new gas station that would include a convenience store and attached car wash, canopy with eight fuel dispensers, two underground storage tanks, as well as related site improvements and landscaping. The Project site is located at 5200 Lone Tree Way at the southwest corner of Lone Tree Way and Vista Grande Drive in the City of Antioch and is associated with the Assessor Parcel Number (APN) 056-270-059. The site is currently being used as a rural property and is occupied by a residence, tankhouse, two sheds, and two barns.

The purpose of this report is to analyze whether or not the proposed Project would impact historical and archaeological resources as defined by the California Environmental Quality Act (CEQA). The City of Antioch is the designated lead agency for CEQA. In accordance with relevant state guidelines for historical resources, this report identifies and documents potential historical resources on the Project site, evaluates the resources for inclusion in the National Register of Historic Places (NRHP) and California Register of Historical Resources (CRHR), and assesses the Project's potential to result in a substantial adverse change in the significance of an historical resource pursuant to Title 14 California Code of Regulations Section 15064.5. In accordance with state guidelines for archaeological resources, an archaeological survey of the Project site was also conducted as part of the preparation of this report and a generic survey form prepared (see Appendix A for the Archaeological Survey Form).

As the Project would involve new construction, a study area (Study Area) was established to account for potential impacts on historical resources identified in the vicinity. The Study Area was defined as the Project site as well as all properties within a 100-foot radius from the center of the Project site.

Identification efforts included a records search at the Northwest Information Center (NWIC) of the California Historical Resources Information System (CHRIS) in Rohnert Park, California and Sacred Lands files maintained by the Native American Heritage Commission (NAHC). The records search included a review of records for the Project site and a surrounding radius of 0.25-miles. The records searches revealed two previously recorded cultural resources located 0.25-mile of the Project site. However, no NRHP or CRHR eligible or listed resources are located on the Project site or within the Study Area (see Appendix B for the Records Search Results).

An intensive pedestrian archaeological survey was performed on the Project site. No previously unrecorded prehistoric or historic archaeological resources were identified during the survey. The Project would demolish the existing six buildings on the Project site, which according to the Contra Costa County Assessor were constructed in 1926 as part of a farm property. These buildings are not currently listed under national, state, or local landmark or historic district programs and are not included as significant in any historic resource surveys of the area. As the buildings are over 50 years of age, Stantec architectural historians surveyed and evaluated the property for national and state designation. The City of Antioch does not have a local landmark designation program or maintain a local historic register. Stantec concluded that the buildings on the Project site do not appear to be individually eligible for the NRHP or CRHR nor are they contributors to a potential historic district due to a lack of significance and integrity (see Appendix C for the Department of Parks and Recreation (DPR) 523 Form Set). The recommended Status Code

## CULTURAL RESOURCES TECHNICAL REPORT FOR 5200 LONE TREE WAY

for all six buildings is 6Z, ineligible for national, state, and local designation through survey evaluation. Therefore, the six buildings on the Project site are not historical resources as defined by CEQA.

The threshold for determining significant impacts on historical resources in the State CEQA Guidelines is whether the proposed project would cause a substantial adverse change, which is defined as demolition, destruction, relocation, or alteration of the resource or its immediate vicinity such that the historical resource is materially impaired. As the existing buildings on the Project site that would be removed do not meet the definition of a historical resource according to CEQA, the Project would have no direct impacts on historical resources. As noted above, there are no previously identified historical resources within the Study Area. Therefore, the Project would have no indirect impact on identified historical resources in the vicinity.

### **Preparer Qualifications**

This report was prepared by Stantec personnel who meet the Secretary of the Interior's Standards and Guidelines for Professional Qualifications in archaeology, architectural history, and history.

Stantec Architectural Historian Emily Rinaldi authored this report. Ms. Rinaldi received a Master of Science degree in Historic Preservation from Columbia University and has over five years of experience in cultural resource management. Ms. Rinaldi qualifies as an Architectural Historian and Historian under the Secretary of the Interior's Professional Qualification Standards (as defined in 36 Code of Federal Regulations [CFR] Part 61).

Stantec Architectural Historian Rebecca Riggs contributed to this report. Ms. Riggs has a Master of Arts degree in Public History from California State University, Sacramento. Ms. Riggs qualifies as an Architectural Historian and Historian under the Secretary of the Interior's Professional Qualification Standards (as defined in 36 CFR Part 61).

Stantec Archaeologist Rudy Dinarte contributed to this report. Mr. Dinarte has a Master of Arts degree in Anthropology from Tulane University. Mr. Dinarte qualifies as an Archaeologist under the Secretary of the Interior's Professional Qualification Standards (as defined in 36 CFR Part 61).

Stantec Archaeological Technician Robley Lawson contributed to this report under the oversight of Rudy Dinarte, who qualifies as an Archaeologist under the Secretary of the Interior's Professional Qualification Standards (as defined in 36 CFR Part 61). Mr. Lawson has a Bachelor of Arts degree in Anthropology from California State University, Sacramento.

## Acronyms and Abbreviations

Applicant	United Pacific
APN	Assessor Parcel Number
BERD	California Built Environment Database
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CHRIS	California Historical Resources Information System
CRHR	California Register of Historical Resources
DPR 523 Form	Department of Parks and Recreation 523 Form
NHPA	National Historic Preservation Act
NRHP	National Register of Historic Places
NWIC	Northwest Information Center
OHP	California Office of Historic Preservation
PRC	Public Resource Code
Project	5200 Lone Tree Way United Pacific Gas Station Project
SR 4	State Route 4
SR 160	State Route 160

# CULTURAL RESOURCES TECHNICAL REPORT FOR 5200 LONE TREE WAY

Project Location and Description  
August 27, 2021

## 1.0 PROJECT LOCATION AND DESCRIPTION

The proposed Project site is located at 5200 Lone Tree Way in the City of Antioch. It is located on the southwest corner of Lone Tree Way and Vista Grande Drive. The proposed Project would be located on APN 056-270-059, located approximately 0.6 miles west of State Route 4 (SR 4).

The proposed Project consists of a new United Pacific convenience store of 3,200 square feet, attached car wash of 1,125 square feet, a fuel canopy with eight fuel dispensers, three underground storage tanks, and related site improvements and landscaping on an approximately two-acre lot. The Project proposes right-in/right-out ingress and egress from Lone Tree Way and Vista Grande Drive. The Project would provide nineteen parking stalls and landscaping which will consist of drought-tolerant species, including shade canopy trees. The car wash drive lane would provide adequate stacking away from areas of ingress/egress from the public right-of-way.

## 2.0 REGULATORY CONTEXT

Generally, a lead agency must consider a property a historical resource under CEQA if it is eligible for listing in the CRHR, which is modeled after the NRHP. Furthermore, a property is presumed to be historically significant if it is listed in a local register of historical resources or has been identified as historically significant in a historic resources survey (provided certain statutory criteria and requirements are satisfied) unless a preponderance of evidence demonstrates that the property is not historically or culturally significant. A lead agency may also treat a resource as historic if it meets statutory requirements and substantial evidence supports the conclusion.

### 2.1 NATIONAL REGISTER OF HISTORIC PLACES (NRHP)

The National Historic Preservation Act (NHPA) of 1966, as amended, authorized the creation of the NRHP. The NRHP is "an authoritative guide to be used by federal, state, and local governments, private groups, and citizens to identify the nation's cultural resources and to indicate what properties should be considered for protection from destruction or impairment."<sup>1</sup> For a property to be considered for inclusion in the NRHP, it must typically be at least 50 years old and meet one or more of the four criteria for evaluation set forth in 36 CFR Part 60.4, as follows:

The quality of significance in American history, architecture, archaeology, engineering, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of design, setting, materials, workmanship, feeling, and association and:

- A. That are associated with events that have made a significant contribution to the broad patterns of our history; or
- B. That are associated with the lives of persons significant in our past; or

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<sup>1</sup> Title 36 Code of Federal Regulations (CFR) Part 60.2.

## CULTURAL RESOURCES TECHNICAL REPORT FOR 5200 LONE TREE WAY

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- C. That embody the distinctive characteristics of a type, period, or method of construction or that represent the work of a master or that possess high artistic values or that represent a significant and distinguishable entity whose components may lack individual distinction; or
- D. That have yielded, or may be likely to yield, information important in prehistory or history.

A property must also be significant within a historic context under one or more of the criteria listed above. "National Register Bulletin 15: How to Apply the National Register Criteria for Evaluation" states that the significance of a historic property can be judged only when it is evaluated within its historic context. Historic contexts are "those patterns, themes, or trends in history by which a specific...property or site is understood and its meaning...is made clear."<sup>2</sup> A property must therefore represent an important aspect of the area's history or prehistory.

In addition to possessing significance, a property must possess integrity, defined by seven aspects as follows:

Location: the place where the historic property was constructed or the place where the historic event took place.

Design: the composition of elements that constitute the form, plan, space, structure, and style of a property.

Setting: the physical environment of a historic property that illustrates the character of the place.

Materials: the physical elements combined in a particular pattern or configuration.

Workmanship: the physical evidence of the crafts of a particular culture or people during any given period of history.

Feeling: the quality that a historic property has in evoking the aesthetic or historic sense of a past period of time.

Association: the direct link between a property and the event or person for which the property is significant.<sup>3</sup>

## 2.2 CALIFORNIA REGISTER OF HISTORICAL RESOURCES (CRHR)

The CRHR was established in 1992 by Assembly Bill 2881. It is an authoritative guide used by state and local agencies, private groups, and citizens to identify historical resources and to indicate what properties are to be protected, to the extent prudent and feasible, from substantial adverse impacts.<sup>4</sup> The criteria for eligibility of listing in the CRHR are based upon NRHP criteria, but are identified as 1-4 instead of A-D. To be eligible for listing in the California Register, a property generally must be at least 50 years of age and must possess significance at the local, state, or national level, under one or more of the following four criteria:

- 1. It is associated with events that have made a significant contribution to the broad patterns of local or regional history, or the cultural heritage of California or the United States; or

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<sup>2</sup> "National Register Bulletin 15: How to Apply the National Register Criteria for Evaluation," U.S. Department of the Interior, National Park Service, Cultural Resources, eds. Patrick Andrus and Rebecca Shrimpton, accessed June 7, 2021, [https://www.nps.gov/subjects/nationalregister/upload/NRB-15\\_web508.pdf](https://www.nps.gov/subjects/nationalregister/upload/NRB-15_web508.pdf), 7-8.

<sup>3</sup> "National Register Bulletin 15," 44.

<sup>4</sup> Public Resource Code (PRC) Section 5024.1(a).



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2. It is associated with the lives of persons important to local, California, or national history; or
3. It embodies the distinctive characteristics of a type, period, or method of construction or represents the work of a master, or possesses high artistic values; or
4. It has yielded, or has the potential to yield, information important in the prehistory or history of the local area, California, or the nation.

Like the NRHP, properties eligible for listing in the CRHR may include buildings, sites, structures, objects, and historic districts. While the enabling legislation for the CRHR is less rigorous with regard to the issue of integrity, there is the expectation that properties retain enough of their historic character or appearance to be recognizable as historical resources and to convey the reasons for their significance.<sup>5</sup>

Evaluations for the CRHR are based upon the evaluation instructions and classification system prescribed by the California Office of Historic Preservation (OHP) in its "Instructions for Recording Historical Resources," which include Status Codes for use in classifying potential historical resources. These Status Codes are used statewide in the preparation of historical resource surveys and evaluation reports. The specific Status Codes referred to in this analysis are as follows:

**6Z** Found ineligible for the NRHP, CRHR, or local designation through survey evaluation

The CRHR may also include properties identified during historic resource surveys. However, the survey must meet all of the following criteria:

1. The survey has been or will be included in the State Historic Resources Inventory;
2. The survey and the survey documentation were prepared in accordance with office [SOHP] procedures and requirements;
3. The resource is evaluated and determined by the office [SOHP] to have a significance rating of Category 1 to 5 on a DPR Form 523; and
4. If the survey is five or more years old at the time of its nomination for inclusion in the California Register, the survey is updated to identify historical resources that have become eligible or ineligible due to changed circumstances or further documentation and those that have been demolished or altered in a manner.<sup>6</sup>

### 2.3 CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

The State CEQA Guidelines set the standard for determining whether a proposed project will result in a "substantial adverse change" in the significance of historical resources in Title 14 CCR Section 15064.5(b), which states:

A project with an effect that may cause a substantial adverse change in the significance of an historical resource is a project that may have a significant effect on the environment.

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<sup>5</sup> "California Office of Historic Preservation Technical Assistance Series #7: How to Nominate a Resource to the California Register of Historical Resources," California Office of Historic Preservation, accessed June 7, 2021, [https://ohp.parks.ca.gov/pages/1056/files/07\\_TAB%207%20How%20to%20Nominate%20A%20Property%20to%20California%20Register.pdf](https://ohp.parks.ca.gov/pages/1056/files/07_TAB%207%20How%20to%20Nominate%20A%20Property%20to%20California%20Register.pdf), 11.

<sup>6</sup> PRC Section 5024.1.

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Title 14 CCR Section 15064.5(b)(1) further clarifies “substantial adverse change” as follows:

Substantial adverse change in the significance of an historical resource means physical demolition, destruction, relocation, or alteration of the resource or its immediate surroundings such that the significance of an historical resource would be materially impaired.

Title 14 CCR Section 15064.5(b)(2) in turn explains that a historical resource is “materially impaired” when a project:

Demolishes or materially alters in an adverse manner those physical characteristics of an historical resource that convey its historical significance and that justify its eligibility for inclusion in the California Register of Historical Resources as determined by a lead agency for purposes of CEQA.

As such, the test for determining whether or not a proposed project will have a significant impact on an identified historical resource is whether or not the project will alter in an adverse manner the physical integrity of the historical resource such that it would no longer be eligible for listing in the NRHP or CRHR or other landmark programs such as the City of Laguna Beach Historic Register.

This analysis considers direct and indirect impacts to historical resources using the following definitions of each:

- Direct or primary impacts are caused by the project and occur at the same time and place (14 CCR Section 15358 [a][1]).
- Indirect impacts, or secondary effects, are reasonably foreseeable and caused by a project but occur at a different time or place (14 CCR Section 15358 [a][2]).

## 2.4 CITY OF ANTIOCH

The City of Antioch does not have a local historic preservation ordinance or landmark designation program nor does the City maintain a local historic register. However, the Antioch General Plan does include objectives and policies related to the protection of cultural resources as noted below:

### **Objective 10.9.1<sup>7</sup>**

Preserve archaeological, paleontological, and historic resources within the Antioch Planning Area for the benefit and education of future residents.

### **Policy 10.9.2**

- a. Require new development to analyze, and therefore avoid or mitigate impacts to archaeological, paleontological, and historic resources. Require surveys for projects having the potential to impact archaeological, paleontological, or historic resources. If significant resources are found to be present, provide mitigation in accordance with applicable CEQA guidelines and provisions of the California Public Resources Code.

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<sup>7</sup> LSA Associates Inc., *City of Antioch General Plan* (Antioch, CA: City of Antioch, November 24, 2003), 10-14.

## CULTURAL RESOURCES TECHNICAL REPORT FOR 5200 LONE TREE WAY

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- b. If avoidance and/or preservation in the location of any potentially significant cultural resources is not possible, the following measures shall be initiated for each impacted site:
- A participant-observer from the appropriate Indian Band or Tribe shall be used during archaeological testing or excavation in the project site.
  - Prior to issuance of a grading permit for the project, the project proponent shall develop a test-level research design detailing how the cultural resource investigation shall be executed and providing specific research questions that shall be addressed through the excavation program. In particular, the testing program shall characterize the site constituents, horizontal and vertical extent, and, if possible, period of use. The testing program shall also address the California Register and National Register eligibility of the cultural resource and make recommendations as to the suitability of the resource for listing on either Register. The research design shall be submitted to the City of Antioch for review and comment. For sites determined, through the Testing Program, to be ineligible for listing on either the California or National Register, execution of the Testing Program will suffice as mitigation of project impacts to this resource.
  - After approval of the research design and prior to the issuance of a grading permit, the project proponent shall complete the excavation program as specified in the research design. The results of this excavation program shall be presented in a technical report that follows the City's outline for Archaeological Testing. The Test Level Report shall be submitted to the City for review and comment. If cultural resources that would be affected by the project are found ineligible for listing on the California or National Register, test-level investigations will have depleted the scientific value of the sites and the project can proceed.
  - If the resource is identified as being potentially eligible for either the California or National Register, and project designs cannot be altered to avoid impacting the site, a Treatment Program to mitigate project effects shall be initiated. A Treatment Plan detailing the objectives of the Treatment Program shall be developed. The Treatment Plan shall contain specific, testable hypotheses relative to the sites under study and shall attempt to address the potential of the sites to address these research questions. The Treatment Plan shall be submitted to the City for review and comment.
  - After approval of the Treatment Plan, the Treatment Program for affected, eligible sites shall be initiated. Typically, a Treatment Program involves excavation of a statistically representative sample of the site to preserve those resource values that qualify the site as being eligible for the California or National Register. At the conclusion of the excavation or research program, a Treatment Report shall be developed. This data recovery report shall be submitted to the City for review and comment.
- c. When existing information indicates that a site proposed for development may contain paleontological resources, a paleontologist shall monitor site grading activities with the authority to halt grading to collect uncovered paleontological resources, curate any resources collected with an appropriate reposition, and file a report with the Community Development Department documenting any paleontological resources found during site grading.

## CULTURAL RESOURCES TECHNICAL REPORT FOR 5200 LONE TREE WAY

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- d. As a standard condition of approval for new development projects, require that if unanticipated cultural or paleontological resources are encountered during grading, alteration of earth materials in the vicinity of the find be halted until a qualified expert has evaluated the find and recorded identified cultural resources. Policy
- e. Preserve historic structures and ensure that alterations to historic buildings and their immediate settings are compatible with the character of the structure and the surrounding neighborhood.

### 3.0 METHODOLOGY

To identify historical and archaeological resources in the Study Area and assess any potential impacts the Project may have on identified resources, Stantec performed the following tasks:

- Conducted a field inspection of the Project site and vicinity, during which Stantec determined the scope of the study as well as assessed the general condition and physical integrity of the Project site and six existing buildings. Digital photographs of the Project site and building exteriors were taken during the field inspection.
- Identified a Study Area to account for potential impacts on historical resources in the vicinity. See Section 4.0 for more information.
- Reviewed existing information to determine if there are any listed or previously surveyed historical or archaeological resources within the Study Area. The following sources were consulted:
  - Requested a records search from the Northwest Information Center (NWIC) in Rohnert Park, California on June 30, 2021. The purpose of this search was to determine whether or not the Study Area contained any resources that were currently listed under national, state, or local landmark or historic district programs and whether or not it contained resources that have been previously identified or evaluated as potential historical resources. This involved a review of the California Historic Resources Inventory System (CHRIS), which includes data on properties listed and determined eligible for listing in the NRHP, listed and determined eligible for listing in the CRHR, California Registered Historical Landmarks, Points of Historical Interest, as well as properties that have been evaluated in historic resource surveys and other planning activities.
  - Consulted the California Built Environment Resource Directory (BERD), which is maintained by the California Office of Historic Preservation (OHP), to determine if the Project area or immediate vicinity contains any resources listed and determined eligible for listing in the National Register, listed and determined eligible for listing in the California Register, or that had been evaluated in historic resource surveys and other planning activities.

The results of the above research can be found in Section 5, Environmental Setting.

- Conducted research into the history of the Project site and the surrounding area. Sources consulted include City of Antioch building permit records, newspaper archives, census data, and public records available through Ancestry.com, Sanborn Fire Insurance maps available through the Los Angeles Public Library, as well as historic aerial photographs available through the University of California, Santa Barbara. Access to materials beyond those listed above was restricted due to the ongoing COVID-19 health emergency.

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- Reviewed and analyzed ordinances, statutes, regulations, bulletins, and technical materials relating to national, state, and local historic preservation designations, and assessment processes and programs to evaluate the significance and integrity of the six buildings on the Project site as potential historical resources.
- Conducted an archaeological survey of the of the Project site that met professional standards. The field survey was conducted by walking parallel, east-west transects of approximately ten to twenty meters. All areas of recent disturbance, including rodent burrows, were closely examined. Boot scrapes were employed to determine approximate gravel depth where there was 0% visibility.

### 3.1 NATIVE AMERICAN CONSULTATION

On June 30, 2021, Stantec sent an email with a Project description and a map depicting the Project area to the Native American Heritage Commission (NAHC) requesting a CEQA Tribal Consultation Lest (AB 52) and a review of the Sacred Lands File (SLF) for Native American cultural resources that might be affected by the Project. The NAHC responded on July 23, 2021 stating that the results of the SLF search were negative.

The NAHC provided a list of 19 Native American individuals and organizations to contact for additional information about sacred sites or Tribal Cultural Resources (TCR) in the Project vicinity:

- Irene Zwierlein (Chairperson, Amah Mutsun Tribal Band of Mission San Juan Bautista)
- Lloyd Mathiesen (Chairperson, Chicken Ranch Rancheria of Me-Wuk Indians)
- Corrina Gould (Chairperson, The Confederated Villages of Lisjan)
- Donald Duncan (Chairperson, Guidiville Indian Rancheria)
- Ann Marie Sayers (Chairperson, Indian Canyon Mutsun Band of Costanoan)
- Randy Yonamura (Ione Band of Miwok Indians)
- Rosemary Cambra (Chairperson, Muwekma Ohlone Indian Tribe of the SF Bay Area)
- Charlene Nijmeh (Chairperson, Muwekma Ohlone Indian Tribe of the SF Bay Area)
- Monica Arellano (Vice Chairwoman, Muwekma Ohlone Indian Tribe of the SF Bay Area)
- Cosme Valdez (Chairperson, Nashville Enterprise Miwok-Maidu-Nishinam Tribe)
- Katherine Erolinda Perez (Chairperson, North Valley Yokuts Tribe)
- Timothy Perez (MLD Contact, North Valley Yokuts Tribe)
- Andrew Galvan (The Ohlone Indian Tribe)
- Neil Peyron (Chairperson, Tule River Indian Tribe)
- Antonio Ruiz Jr. (Cultural Resources Officer, Wilton Rancheria)
- Jesus Tarango (Chairperson, Wilton Rancheria)

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- Steven Hutchason (Tribal Heritage Preservation Officer, Wilton Rancheria)
- Dahlton Brown (Director of Administration, Wilton Rancheria)
- Kenneth Woodrow (Chairperson, Wuksache Indian Tribe/Eshom Valley Band)

The City, as Lead Agency, opted to send certified notification letters to each of the individuals and organizations identified by the NAHC on July 29, 2021. The letters contained a description of the Project and Project location, a map of the Project area, an invitation to consult on the Project, and contact information and asked for responses within 30 days. Additionally, emails were distributed with contact information and digital copies of the notifications to the individuals and organization identified by the NAHC on July 30, 2021. Follow up phone calls were made to each contact on August 13, 19 and 26, 2021.

In response to a follow-up telephone call placed on August 13, 2021, Meyo Marrufo, the Environmental Director of the Guidiville Indian Rancheria, stated that the Project was of no environmental or cultural resource concern for the tribe, but to please notify if any cultural resources were identified in the course of the project.

### 4.0 STUDY AREA

As the Project involves new construction, the Study Area was identified as the Project site as well as all parcels within a 100-foot radius from the center of the Project site (see **Figure 1**). This Study Area was established to account for potential impacts on historical resources in the vicinity. Parcels beyond this Study Area were not included because the Project would have no potential to directly or indirectly impact the buildings on these distant parcels or their surrounding setting. The buildings and streets immediately surrounding the Project site create a geographic and visual separation between the parcels beyond the Study Area and the Project site. The Project site therefore cannot be reasonably considered part of the environmental setting of historical resources beyond the Study Area due to this intervening space.

Environmental Setting  
August 27, 2021

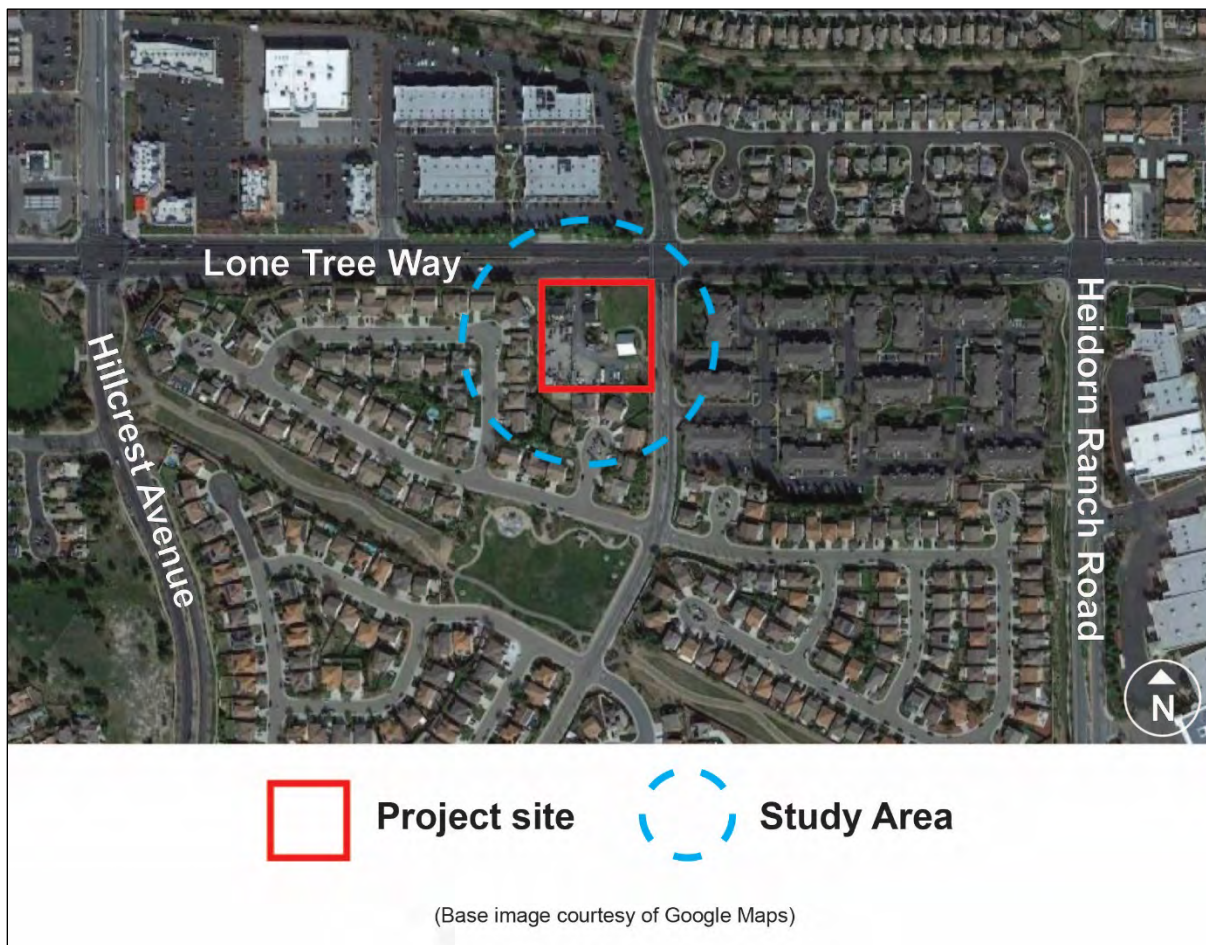


Figure 1: Study Area Map

## 5.0 ENVIRONMENTAL SETTING

The Project site is located in a highly developed area of Antioch on Lone Tree Way at Vista Grande Drive (see **Photograph 1**). Lone Tree Way is a major arterial street to the north of the Project site that provides regional access throughout southeast Antioch. It is six lanes wide with a center median and extends in an east-west direction. Vista Grande Drive is a secondary street located to the east of the Project site. It is two lanes wide with a center median and traffic travels in a north-south direction. The topography of the Project site and immediate vicinity is relatively flat. Surrounding land uses include commercial development such as restaurants, retail shops, and offices as well as residential development such as single-family and multi-family residences. Adjacent buildings are generally low scale, ranging from one to two stories.

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**Photograph 1:** Lone Tree Way, view from the Project site looking west (Stantec, July 2021)

The Project site is bordered by Lone Tree Way on the north, Vista Grande Drive to the east, two single-family residential properties located at 5002–5003 Hollowglen to the south, and three single-family residential properties located at 5115–5123 Plumwood Way to the west. It is accessed via a driveway on Lone Tree Way. The driveway is paved with asphalt and extends south from the north property boundary to a gravel paved surface parking area at the south end of the parcel. A portion of the rear surface parking area at the southwest corner of the parcel is surrounded by a chain-link fence. A concrete block curb borders the north boundary to the east and west of the driveway. A second driveway paved with concrete is located near the south end of the parcel on Vista Grande Drive. A half-height chain link fence with a sliding gate at the secondary driveway is located along the east property boundary. Landscaping primarily consists of mature trees, shrubs, and a grassy lawn.

There are six buildings located on the Project site, a single-family residence, two barns, two sheds, and a tankhouse (see **Figure 2**). The residence is setback from the north property boundary to the west of the driveway, while the tankhouse is slightly setback from the north boundary to the east of the driveway (see **Photograph 2**). One barn, referred to for the purposes of this report as the north barn, is located immediately to the southeast of the tank house. It has been previously converted into a garage. The second barn, referred to here as the south barn, is located further to the southwest near the east property boundary (see **Photograph 3**). Two sheds are also located on the property to the south of the north barn. For additional descriptive information regarding the property, please see Appendix B for the complete set of DPR 523 Forms.



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**Figure 2:** Map of 5200 Lone Tree Way with Project site outlined in red

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**Photograph 2:** Project site, view looking east towards residence, tankhouse, and north barn (Stantec, July 2021)



**Photograph 3:** Project site, view looking southwest towards north and south barns (Stantec, July 2021)

The area of Antioch where the Project site is located was devoted to agriculture throughout the late 19<sup>th</sup> century and much of the 20<sup>th</sup> century. It was not until the 1990s and 2000s that the surrounding land was subdivided into tracts and the majority of the existing residential and commercial development constructed. The Project site was previously part of a much larger agricultural property located over 5 miles southeast from what was then the city boundaries of Antioch. The property that comprises the Project site was later annexed by the City of Antioch in 1987 as part of the Williamson/Heidorn annexation. The history of this farming community, historically referred to as Lone Tree Valley, is therefore not closely associated with any one city, but rather is generally associated with the history of east Contra Costa County and the surrounding communities of Antioch, Brentwood, and Oakley.

The following sections provide contextual information for understanding the historical setting and potential significance of the six buildings on the Project site that were evaluated for NRHP and CRHR listing as part of the preparation of this report.

### 5.1 EARLY HISTORY OF EAST CONTRA COSTA COUNTY, 1850–1920

The Gold Rush incited a mass migration of over 300,000 people to California between 1848 and 1854, quickly propelling the territory into statehood and transforming almost every aspect of its earlier character.<sup>8</sup> New immigrants soon settled throughout the state, including an influx European and European-Americans into present-day east Contra Costa County. Following California statehood, the U.S. Government began issuing federal land patents for the area. Records indicate that the U.S. Government issued over 40 patents for land surrounding the Project site between the late 1860s and 1870s.<sup>9</sup>

Many of the new settlers were farmers, and as a result, early growth in east Contra Costa County was in part fueled by agriculture dominated by crops such as wheat, barley, and hay. Contra Costa County and Lone Tree Valley, in particular, soon became a leading producer of barley, used primarily for animal feed as well as for making larger beer

<sup>8</sup> "California Gold Rush," Britannica, accessed July 15, 2021, <https://www.britannica.com/topic/California-Gold-Rush>.

<sup>9</sup> Bureau of Land Management, "Land Patent Search," *General Land Office Record*, accessed July 15, 2021, <https://glorerecords.blm.gov/default.aspx>.

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and ale.<sup>10</sup> By 1879, 12% of the state's barley was grown in the county. Beginning in 1859, the discovery of coal in the Black Diamond mine area south of present-day Pittsburg also fueled early growth.<sup>11</sup> Black Diamond soon become California's largest mining operation from which nearly four million tons of coal was removed.

Several small communities and towns were formed in east Contra Costa County during this period. One of the earliest was Antioch, founded in 1849 as Smith's Landing by twin brothers, Rev. William Wiggins Smith and Rev. Joseph Horton Smith.<sup>12</sup> The town was promptly renamed Antioch in 1851 after the biblical city of Antioch. The early townsite developed around a pier on the banks of the San Joaquin River near what was then known as Front Street and Main Street.<sup>13</sup> Besides Antioch, other towns in east Contra Costa County founded in the mid-19<sup>th</sup> century include those associated with the Black Diamond mines, such as Pittsburg, Nortonville, Somersville, Stewartville, West Hartley, and Judsonville.<sup>14</sup>

The completion of the San Pablo & Tulare line of the Central Pacific Railroad in 1878 and the Stockton line of the Santa Fe Railroad in 1898, brought further development to east Contra Costa County.<sup>15</sup> Communities, such as Brentwood, Byron, Knightsen, and Oakley, formed around stops along the railroads. Early businesses in these towns included mercantile shops, blacksmith shops, barber shops, saloons, and hotels. The arrival of the railroads also provided farmers with easier access to transportation and expanded the number of markets they could ship their crops to. This led to a diversification of the types of crops cultivated in the county to include fruit and nuts.

The last operating coal mines closed in east Contra Costa County in the 1900s; however, the local economy continued to diversify throughout the early 20<sup>th</sup> century.<sup>16</sup> Commercial sand mining soon replaced coal extraction beginning around 1910. Dairy grew to become a dominate industry in the area with Knightsen becoming the largest depot for shipping milk by the 1920s.<sup>17</sup> Finally, agricultural practices in the area changes with the establishment of irrigation districts that allowed for the cultivation of more water intensive crops such as almonds and grapes.

The farmers in the Lone Tree Valley had established a formal farming community and irrigation district by 1925.<sup>18</sup> The earliest aerial photograph of the area from 1939 shows scattered farms surrounded by uncultivated land. The parcels appear to have been formed by the United States rectangular land survey. Residences and farm buildings are typically clustered together near roadways and feature an allée or curved entry drive bordered by trees or orchards. These clusters are then surrounded by cultivated fields. Historic aerials illustrate that more of the undeveloped land was under cultivation by the mid-20<sup>th</sup> century; however, by the 1980s, some of the agricultural properties had been redeveloped with new residential, commercial, or industrial buildings. By the 1990s and 2000s, most of the agricultural properties in the area had been redeveloped, the majority with new suburban subdivisions.

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<sup>10</sup> Janet L. Pape, "Shannon Ranch/Williamson Ranch," National Register of Historic Places Nomination Form, Antioch, California, January 29, 1987, sect. 8, pg. 2.

<sup>11</sup> "Black Diamond Mines Regional Preserve," East Bay Regional Park District, accessed July 15, 2021, [https://www.ebparks.org/parks/black\\_diamond/default.htm#history](https://www.ebparks.org/parks/black_diamond/default.htm#history).

<sup>12</sup> "Early Antioch," The Antioch Historical Museum, accessed July 15, 2021, <https://www.antiochhistoricalmuseum.org/early-antioch>.

<sup>13</sup> Sanborn Map Company, *Antioch*, 1884, Sheet 1.

<sup>14</sup> Adrian Praetzellis, "Black Diamond Mines," National Register of Historic Places Nomination Form, Antioch, California, Anthropological Studies Center, Sonoma State University, May 2, 1991, sect. 8, pg. 11.

<sup>15</sup> "Knightson," East Contra Costa County Historical Society, accessed July 15, 2021, <https://eastcontracostahistory.org/our-communities/knightson/>.

<sup>16</sup> Praetzellis, sect. 8, pg. 1.

<sup>17</sup> "Knightson," East Contra Costa County Historical Society.

<sup>18</sup> "Naval Day Celebration," *Mill Valley Record*, October 17, 1925.

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### 5.2 HISTORY OF PROJECT SITE

The date of construction for the buildings on the Project site is noted by the Contra Costa County Assessor's Office as 1926. The earliest available aerial photograph for the Project site is from 1939. It shows the residence and two barns in their current locations on the property and what appears to be the tankhouse, although it is not clearly depicted in the photograph (see **Photograph 4**). The area to the south of the Project site between present-day Hillcrest Avenue and Heidorn Ranch Road were under cultivation by that date. Across Lone Tree Way, there are what appear to be a residence and two barns that are no longer extant. It is not known whether these buildings on the north side of Lone Tree Way were historically associated with the Project site. The surrounding area on the north side of Lone Tree Way between present-day Hillcrest Avenue and Heidorn Ranch Road was also under cultivation by that date.



**Photograph 4:** 1939 aerial photograph with Project site circled in red (UCSB)

Building permits and ownership information from the date of construction are no longer on file with either the City of Antioch or Contra Costa County; however, research indicates that the existing buildings on the Project site were likely constructed for owner Frederick H. Heidorn. Heidorn was the father of Frederick H. Heidorn, Jr., who is documented in building permit records as owning the property in the 1990s. Census data dating from the late 1920s through the 1950s, newspaper articles, and other publicly available records such as draft cards indicate that the family resided on a farm located on Lone Tree Way. The current address of 5200 Lone Tree Way is not listed on any of these documents, which is likely because the property was not historically assigned a number address. Heidorn, Jr.'s obituary notes that he grew up on his father's farm on Lone Tree Way and later inherited it from his father when he retired.<sup>19</sup>

<sup>19</sup> "Frederick Henry Heidorn, Jr.," *Contra Costa Times*, February 28, 2007.

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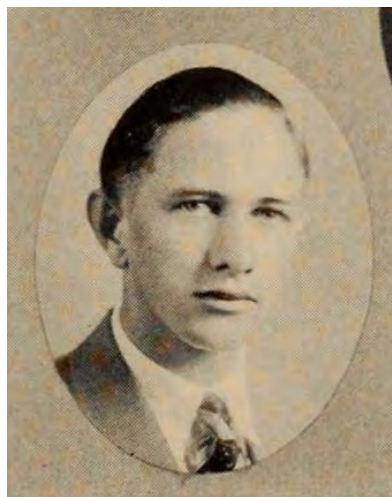
Frederick Heidorn, Sr. was born in east Contra Costa County in 1872 (see **Photograph 5**). He married Mary Metten Heidorn (1882–1970) and had three children Frederick, Marie, and Ralph.<sup>20</sup> He is listed in census and voter registration records as a farmer and is noted in several newspaper articles from the 1920s for growing barley.<sup>21</sup> He is also noted as a trustee of the Lone Tree School District. Frederick Heidorn, Sr. passed away in 1954.<sup>22</sup>

Frederick Heidorn, Sr.'s father, Henry Heidorn, Sr., was an immigrant from Hanover, Germany who arrived in the United States in 1868, and later received a land patent in 1874 for land in east Contra Costa County located at the present-day interchange of State Route (SR) 160 and SR 4.<sup>23</sup> He was married to Charlotte Heidorn and had four children, Fred, Louisa, Kattie, and Minnie.<sup>24</sup> Henry Heidorn, Sr. was likely related to Christian Heidorn, who was another immigrant from Hanover, Germany who settled in east Contra Costa County around the same time. According to the 1880 census, Henry Heidorn, Sr. was a farmer who owned a 200-acre farm with 100 acres of wheat under cultivation as well as 3 dairy cows, 10 horses, and 100 chickens.<sup>25</sup>

Frederick Heidorn, Sr.'s son, Frederick Heidorn, Jr., was born in 1910 on the family farm (see **Photograph 6**). He attended Lone Tree School and Liberty High School, graduating in 1928. Upon graduation, he joined his father working their family farm and grew apricots, grapes, grain, walnuts, and almonds among other crops. He later married Doris Pfeiffer (1912–1990) in 1934 and had three children, Jayne, Susan, and Carol.<sup>26</sup> Frederick Heidorn, Jr. was a member of 4-H, Contra Costa Farm Bureau, Delta Dance, Antioch Senior Citizens, Antioch Historical Society and East Contra Costa Historical Society. Like his father, he was also a trustee of the Lone Tree School District. Frederick Heidorn, Jr. passed away in 2007.



**Photograph 5:** Frederick Heidorn, Sr., undated  
(Ancestry.com)



**Photograph 6:** Frederick Heidorn, Jr., 1928  
(Ancestry.com)

<sup>20</sup> "Diablo Valley Boy Dies after Operation," *Oakland Tribune*, January 5, 1926.

<sup>21</sup> "Mrs. Laugenour to Be Bridge Club Hostess," *Woodland Daily Democrat*, January 18, 1929.

<sup>22</sup> "Fred H. Heidorn, Sr." *Oakland Tribune*, March 27, 1954.

<sup>23</sup> Bureau of Land Management, "Land Patent Search," *General Land Office Record* entry for Henry Heidorn, Sr., Contra Costa County, CA, no. 818.

<sup>24</sup> United States Census Bureau, 1880, Township Five, Contra Costa County, California, 23.

<sup>25</sup> U.S. Census, 1880.

<sup>26</sup> "Frederick Henry Heidorn, Jr."

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It is not known how long the Heidorn family owned the property prior to the construction of the existing buildings in 1926. As noted above, Henry Heidorn, Sr. received a land patent in 1874 for a property located farther north near the present-day SR 160 and SR 4 interchange. Daniel A. Lewis appears to have received a land patent that included the Project site in 1871. Because primary source documents do not use number addresses and the City nor County have any deed information related to the property on record, it is difficult to determine when the Heidorn family purchased the property on Lone Tree Way. The 1920 census notes that the Heidorn family lived at a farm on Bretwood Road, which appears to have been a former name for present-day Lone Tree Way.<sup>27</sup> Therefore, it is possible that the family's association with the property pre-dates 1926.

Aerial photographs show that the property changed little between 1939 and 1982 (see **Photograph 7** and **Photograph 8**). Visible alterations to the property primarily included changes to the vegetation, such as the addition of an orchard to the east of the residence along Lone Tree Way and the removal and replacement of trees. An aerial from 1993 shows that the orchard had been removed as well as many of the mature trees throughout the property. By 2002, Lone Tree Way had been widened and the surrounding subdivision, Meadow Springs Village, had been constructed.

It is likely that the Heidorn family may have owned all or the majority of the land that today comprises the Meadow Springs Village subdivision. This subdivision extends south from Lone Tree Way to Prewett Ranch Drive between Hillcrest Avenue and Heidorn Ranch Road. Heidorn Ranch Road and Heidorn Park were probably named after the family when Meadow Springs was subdivided sometime in the late 1990s and early 2000s. Because the subdivision immediately surrounds the Project site to the west and south, the family likely sold this land, while retaining ownership of the part of the property where their residence was located.



**Photograph 7:** 1958 aerial photograph with Project site circled in red (UCSB)



**Photograph 8:** 1965 aerial photograph with Project site circled in red (UCSB)

### 5.3 PREVIOUSLY IDENTIFIED CULTURAL RESOURCES IN THE STUDY AREA

A records search was conducted by NWIC at Sonoma State University on July 29, 2021 (NWIC file no. 20-2690). The purpose of this search was to determine the proximity of previously documented cultural resources to the Project site and to help establish a context for the potential significance of historic properties. The records search included a

<sup>27</sup> United States Census Bureau, 1920, Township Eight, Contra Costa County, California, 6B.

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review of all recorded historic and prehistoric cultural resources situated within a 0.25-mile radius of the Project site, as well as a review of known cultural resource surveys and excavation reports. The following sources of information were consulted as part of the records search:

- National Register of Historic Places (NRHP)
- California Register of Historical Resources (CRHR)
- Built Environment Resource Directory (BERD)
- California Inventory of Historic Resources (CHRI)
- California Historical Landmarks (CHL) list
- California Points of Historical Interest (CPHI) list
- California Office of Historic Preservation (OHP) records
- Historic topographic maps
- Bureau of Land Management General Land Office plat maps, and aerial photographs

The records search identified 18 studies within 0.25 miles of the Project site. One of the previous studies were within or immediately adjacent to the Project site, and an additional 17 studies were identified within a 0.25-mile radius (see **Table 1**). A copy of the existing resource documentation is included in Appendix B.

**Table 1. Previous Studies within .25-mile of Project site**

Study Number	Author	Year	Title	Location
S-11826	Theodoratus Cultural Research	1980	Montezuma I & II Cultural Resources: Pacific Gas & Electric Company	Project site
S-000595	King, R. F.	1974	A Report on the Status of Generally Available Data Regarding Archaeological, Ethnographic, and Historical Resources Within a Five Mile Wide Corridor Through Portions of Colusa, Yolo, Solano, and Contra Costa Counties, California	0.25 Mile Research Buffer
S-000848	Fredrickson, David A.	1976	A Summary of Knowledge of the Central and Northern California Coastal Zone and Offshore Areas, Vol. III, Socioeconomic Conditions, Chapter 7: Historical & Archaeological Resources	0.25 Mile Research Buffer
S-001978	Aiello, Anthony V.	1960	The Islands of Contra Costa	0.25 Mile Research Buffer
S-002458	Ramiller, Neil, et al.	1981	Overview of Prehistoric Archaeology for the Northwest Region, California Archaeological Sites Survey: Del Norte, Humboldt, Mendocino, Lake, Sonoma, Napa, Marin, Contra Costa, Alameda	0.25 Mile Research Buffer

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Study Number	Author	Year	Title	Location
S-005208	Greenway, Gregory and William E. Soule	1977	Sacramento-San Joaquin Delta Investigations: Cultural Resources Reconnaissance	0.25 Mile Research Buffer
S-009462	Miller, Teresa A.	1977	Identification and Recording of Prehistoric Petroglyphs in Marin and Related Bay Area Counties	0.25 Mile Research Buffer
S-009583	Mayfield, David W.	1978	Ecology of the Pre-Spanish San Francisco Bay Area	0.25 Mile Research Buffer
S-009795	Jackson, Thomas L.	1986	Late Prehistoric Obsidian Exchange in Central California	0.25 Mile Research Buffer
S-016660	Fentress, Jeffrey B.	1992	Prehistoric Rock Art of Alameda and Contra Costa Counties, California	0.25 Mile Research Buffer
S-017773	Banet, Angela M.	1992	Contract 04E634-EP, Task Order #9, Historic Map Review for CALTRANS Maintenance Facilities (letter report)	0.25 Mile Research Buffer
S-017835	Suchey, Judy M.	1975	Biological Distance of Prehistoric Central California Populations Derived from Non-Metric Traits of the Cranium	0.25 Mile Research Buffer
S-018217	Gmoser, Glenn	1996	Cultural Resource Evaluations for the Caltrans District 04 Phase 2 Seismic Retrofit Program, Status Report	0.25 Mile Research Buffer
S-020395	Gillette, Donna L.	1998	PCNs of the Coast Ranges of California: Religious Expression or the Result of Quarrying?	0.25 Mile Research Buffer
S-030204	Gillette, Donna L.	2003	The Distribution and Antiquity of the California Pecked Curvilinear Nucleated (PCN) Rock Art Tradition.	0.25 Mile Research Buffer
S-032596	Milliken, Randall, Jerome King, and Patricia Mikkelsen	2006	The Central California Ethnographic Community Distribution Model, Version 2.0, with Special Attention to the San Francisco Bay Area, Cultural Resources Inventory of Caltrans District 4 Rural Conventional Highways	0.25 Mile Research Buffer
S-033600	Meyer, Jack and Jeff Rosenthal	2007	Geoarchaeological Overview of the Nine Bay Area Counties in Caltrans District 4	0.25 Mile Research Buffer
S-049780	Byrd, Brian F., et al.	2017	San Francisco Bay-Delta Regional Context and Research Design for Native American Archaeological Resources, Caltrans District 4	0.25 Mile Research Buffer

No previously recorded cultural resources were identified within the Project site or Study Area; however, two resources were identified within 0.25 mile. **Table 2** identifies the previously recorded resources within 0.25 mile of the Project site (see the complete results in Appendix B).

**Table 2. Previously Recorded Resources within 0.25 mile of the Project site**

Primary Number	Trinomial	Age	Description	NRHP Eligibility
P-07-000015	CA-CCO-692H	Historic	Concrete foundations of F-12 / Lone Tree School and associated outbuildings located	7 - Unevaluated



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Primary Number	Trinomial	Age	Description	NRHP Eligibility
			approximately 0.24 mile east of the Project	
P-07-000303	CA-CCO-532/H	Historic	Williamson/Shannon Homestead farm complex located approximately 0.23 mile west of the Project.	1S – Individual property listed in the National Register (NR). Listed in the California Register (CR).

## 6.0 EVALUATION OF IDENTIFIED RESOURCES

The records search and desktop archaeological review did not identify any prehistoric or historical archaeological resources. The Project site generally exhibits a low sensitivity for the presence of surface or subsurface cultural resources.

The intensive archaeological pedestrian survey found a possible footing/foundation, approximately 50-feet south of the barn, however, no diagnostic artifacts were identified. The footing is likely related to the historical structures at 5200 Lone Tree Way. No prehistoric resources were identified within the Project site. No previously recorded built resources were identified within the Project site or Study Area.

The six buildings on the Project site located at 5200 Lone Tree Way are not currently listed under national, state, or local landmark or historic district programs and are not included as significant in any historic resource surveys of the area. Because they are all over 50 years of age, Stantec evaluated their eligibility for listing in the NRHP and CRHR to determine if they qualify as historical resources as defined by CEQA.

### 6.1 5200 LONE TREE WAY

5200 Lone Tree Way is a former agricultural property located in southeast Antioch. It was evaluated for the NRHP and CRHR under Criteria A/1, B/2, C/3, and D/4 as well as under federal and state integrity requirements. Because the six buildings lack individual distinction and are united by their history and physical development, Stantec evaluated them as part of a potential historic district per the guidance outlined in “National Register Bulletin: Guidelines for Evaluating and Documenting Rural Historic Landscapes,” which notes that properties “containing a number of buildings, sites, and structures—such as a ranch or farming community—are classified as historic districts.”<sup>28</sup> The following is a summary of the property’s evaluation. Please see Appendix B for the full evaluation.

The property was evaluated under Criteria A/1 within the context of the Early History of East Contra Costa County. The Heidorn family were early farmers who settled in east Contra Costa County in the 1870s; however, it could not be confirmed that the property is directly associated with Henry Heidorn Sr. nor could it be confirmed that the property is associated with Frederick H. Heidorn, Sr. prior to the 1920s. The earliest known record of the family occupying a property on Lone Tree Way is the 1920 census, which notes the family farm was located on Brentwood Road, likely the former name for Lone Tree Way. “National Register Bulletin: How to Apply the National Register Criteria for

<sup>28</sup> McClelland et. al, “National Register Bulletin: Guidelines for Evaluation and Documenting Rural Historic Landscapes,” U.S. Department of the Interior, National Park Service, Cultural Resources, 1989, revised 1999, 2.

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Evaluation” notes that “a property is not eligible if its associations are speculative.”<sup>29</sup> Because it could not be determined that the property had a direct involvement in the early agricultural development of the area, the property does not appear to be significant under Criteria A/1.

Even if the property’s association with early agricultural development is later confirmed upon further research, it still does not appear to be eligible for listing under Criteria A/1 because the property no longer reflects the period of time in which these important events took place. According to the Contra Costa County Assessor, the construction dates for the three buildings and structure on the property is 1926, which is after the end of the early period of agricultural development in east Contra Costa County between 1850 and 1920. Additionally, the property has substantially changed since 1926 and no longer retains integrity of design, materials, workmanship, feeling, or setting. Most notably, the land surrounding 5200 Lone Tree Way was previously redeveloped into a residential subdivision and no longer retains its agricultural character. As “Guidelines for Evaluating and Documenting Rural Historic Landscapes” notes, “new construction and incompatible land uses covering extensive acreage such as residential subdivisions....cause the greatest damage” to historic integrity.<sup>30</sup> Additionally, individual buildings, such as the residence and north barn, have been substantially altered through the removal and/or replacement of original features and materials.

The property does not appear to be significant under Criteria B/2. While the Heidorn family may have been prosperous early famers, no primary or secondary sources were found that detail their specific activities, accomplishments, or influence that distinguishes them from other early farmers in east Contra Costa County. The individual contributions or roles of Henry Heidorn Sr., Frederick H. Heidorn, Sr., and Frederick Heidorn, Jr. cannot be identified and documented as significant within the history of east Contra Costa County.

The property also does not appear to be significant under Criteria C/3. 5200 Lone Tree Way may have originally exhibited the landscape characteristics of an agricultural property from the 1920s; however, few landscape characteristics dating from this period remain extant. The property’s original land uses, division of property, overall pattern of circulation, and any natural features were mostly demolished when the surrounding residential subdivision was constructed. Other features such as the original fields for cropping, orchards, treelines, and boundary demarcations were also removed. The only features that appear to remain are the six buildings and structures.

The north barn, south barn, tankhouse, and two sheds are all vernacular in their design and construction. Like other agricultural buildings constructed at this time, they feature metal or composite shingle roofing, no foundation or concrete on grade, and wood channel or clapboard siding. The design and construction of these buildings are typical for early-to-mid-20<sup>th</sup> century agricultural properties and commonly found throughout California and the western United States.

The residence does not embody the distinctive characteristics that would make it significant as an example of any one particular style. The only notable original design feature it possesses is its roof shape; otherwise, all original decorative features or ornament appear to have been previously removed. The residence is thus lacking in qualities associated with finer examples of popular architectural styles for single-family residences during this period, such as Craftsman, Period Revival, Spanish Colonial Revival, and American Colonial Revival. It does not exhibit quality craftsmanship, nor does it demonstrate any innovative, important, or outstanding design features.

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<sup>29</sup> “National Register Bulletin 15,” 12.

<sup>30</sup> McClelland et. all, 24.

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Criteria D/4 generally applies to archaeological resources but may apply to a built resource in instances where a resource may contain important information about such topics as construction techniques or human activity. In any case, the resource must be the principal source of information. This is unlikely to be true for an agricultural property from the 1920s. Therefore, 5200 Lone Tree Way does not appear to be significant under NRHP Criteria D.

For these reasons, this evaluation finds that 5200 Lone Tree Way does not meet the criteria for listing in the NRHP or CRHR as a historic district nor do the individual buildings and structures appear eligible for listing. The property therefore does not appear to be a historical resource for the purposes of the California Environmental Quality Act (CEQA) pursuant to Title 14 California Code of Regulations (CCR) §15064.5.

## 7.0 REFERENCES

### PRIMARY RESOURCES

Bureau of Land Management. "Land Patent Search." *General Land Office Record*. Accessed July 15, 2021, <https://gloreports.blm.gov/default.aspx>.

Bureau of Land Management, "Land Patent Search," *General Land Office Record* entry for Henry Heidorn, Sr., Contra Costa County, CA, no. 818.

"Diablo Valley Boy Dies after Operation." *Oakland Tribune*. January 5, 1926.

"Fred H. Heidorn, Sr." *Oakland Tribune*. March 27, 1954.

"Frederick Henry Heidorn, Jr." *Contra Costa Times*. February 28, 2007.

"Mrs. Laugenour to Be Bridge Club Hostess." *Woodland Daily Democrat*. January 18, 1929.

"Naval Day Celebration." *Mill Valley Record*. October 17, 1925.

Sanborn Map Company. *Antioch, California*, 1880.

United States Census Bureau, 1880. Township Five, Contra Costa County, California.

United States Census Bureau, 1920. Township Eight, Contra Costa County, California.

### SECONDARY RESOURCES

"Black Diamond Mines Regional Preserve," East Bay Regional Park District, accessed July 15, 2021, [https://www.ebparks.org/parks/black\\_diamond/default.htm#history](https://www.ebparks.org/parks/black_diamond/default.htm#history).

"California Gold Rush." Britannica. Accessed July 15, 2021, <https://www.britannica.com/topic/California-Gold-Rush>.

"California Office of Historic Preservation Technical Assistance Series #7: How to Nominate a Resource to the California Register of Historical Resources." California Office of Historic Preservation. Accessed June 7, 2021, [https://ohp.parks.ca.gov/pages/1056/files/07\\_TAB%20%20How%20To%20Nominate%20A%20Property%20to%20California%20Register.pdf](https://ohp.parks.ca.gov/pages/1056/files/07_TAB%20%20How%20To%20Nominate%20A%20Property%20to%20California%20Register.pdf).

"Knightson." East Contra Costa County Historical Society. Accessed July 15, 2021, <https://eastcontracostahistory.org/our-communities/knightson/>.

LSA Associates Inc. *City of Antioch General Plan*. Antioch, CA: City of Antioch, November 24, 2003.

## CULTURAL RESOURCES TECHNICAL REPORT FOR 5200 LONE TREE WAY

### References

August 27, 2021

McClelland, Linda Flint, J. Timothy Keller, Genevieve P. Keller, and Robert Z. Melnick, "Guidelines for Evaluation and Documenting Rural Historic Landscapes." U.S. Department of the Interior, National Park Service, Cultural Resources, 1989, revised 1999.

"National Register Bulletin 15: How to Apply the National Register Criteria for Evaluation." U.S. Department of the Interior, National Park Service, Cultural Resources, eds. Patrick Andrus and Rebecca Shrimpton. Accessed June 7, 2021, [https://www.nps.gov/subjects/nationalregister/upload/NRB-15\\_web508.pdf](https://www.nps.gov/subjects/nationalregister/upload/NRB-15_web508.pdf).

Pape, Janet L. "Shannon Ranch/Williamson Ranch." National Register of Historic Places Nomination Form. Antioch, California. January 29, 1987.

Praetzellis, Adrian. "Black Diamond Mines." National Register of Historic Places Nomination Form. Antioch, California. Anthropological Studies Center, Sonoma State University. May 2, 1991.

Appendix A Project Maps  
August 27, 2021

## Appendix A ARCHAEOLOGICAL SURVEY FORM

Project Name: 5200 Lone Tree Way Antioch  
 Project Number: 185705497  
 Generic Survey Form

Surveyor Name/s: Rudy A. Dinarte	Date: 7/12/2021
Additional Survey Names:	
Weather: ~66° clear skies (projected high of 95°)	
Survey Location: 5200 Lone Tree Way, Antioch, CA 94531 Contra Costa County, Antioch South 7.5-Minute, CA. T1N, R2E, Section 4 Lat/Long: 37.961112, -121.755406	
Time start: 7:00 am	Time stop: 1:30 pm
<p>Environmental Setting (% visibility, vegetation, % slope/grade):          The project is located on a corner lot within a suburban area of Antioch, CA at the intersection of Lone Tree Way and Vista Grande Drive. Paved asphalt roads Lone Tree Way and Vista Grande Drive borders the northern and eastern boundary of the project area; additionally, suburban housing developments are located on the southern and western boundary of the project area.</p> <p>The lot has been utilized for mixed uses including housing, barns, and construction yard. As a result, only approximately 37 percent of native soils were surveyed.</p> <p>In the areas where the ground was not covered by gravel, structures, or asphalt, visibility was good, with approximately 70-80% visibility. Visibility was obscured by minimal grasses and weeds, and 6-8 trees.</p> <p>Native soils consisted of 10YR 7/2 light-gray-brown silty sand with ~20% subangular gravels throughout.</p>	
Survey type (Reconnaissance, Intensive): Intensive pedestrian survey with 10-20 meter transects. Due to poor visibility, boot scrapes were attempted within the imported gravel yard, but I was not able to reach native soils (at least 4 inches below surface). Additionally, when present, rodent burrows and vegetation bald patches were intensively inspected for cultural resources.	
Survey size (Linear/acreage, miles, feet, meters): approximately 2 acres	
Percentage of Survey Coverage: approximately 77% of the area was accessible, however only 37% of native soils were visible.	
<p>Survey Methods (include existing conditions, extent and agents of disturbance):  <b>Condition:</b> It appears different sections of the lot have been utilized for different uses, including a house, storage/construction yard, and a barn. Due to the mixed use, visibility was limited for various reasons, including imported gravels pad, asphalt paving, four structures, and one house, in addition to various parked vehicles and modern-refuse throughout the lot. Only approximately 0.74 (~37%) acres of native soils were visible. In addition to the lot's uses, the southwest quarter, approximately 0.46 acres, was inaccessible due to fencing and mesh material blocking any visibility. A vast majority of the southern section of the lot consist of what appears to be light gray imported gravels that are at least 4 inches in depth; boot scrapes were stopped at ~4 inches.</p>	

**Disturbance:** In addition to the various structures, building, asphalt road, and imported gravels, it appears multiple irrigation systems have been installed in the lot, including an irrigation system for an apparent yard immediately north of the house. The entire lot has likely been subject to multiple grading activities, and it appears multiple dirt access roads have been created in an as-needed bases by tenants. Additional disturbances include a utility vault, storm drain, telecommunications-service box, and the apparent use of sections of the lot as a modern refuse dump location.

**Methods:** Intensive pedestrian survey (10-20 meter transects), utilizing boot scrapes to determine approximate gravel depth due to 0% visibility. Transects were walked in a generally east to west trajectory.

Survey results: (If sites/resources observed, note access roads, staging areas, include photos, continue on separate sheet as needed)

It appears that historically the property was used as an orchard, and a working farm. The built environment has been assessed by Stantec Architectural Historian Rebecca Riggs; please see their notes for assessment.

A possible footing/foundation was observed approximately 50 feet south of barn, however no diagnostic artifacts were found.

No other cultural resources were observed.

**Recommendations:** Due to the historic component of the property, the minimal surface soils observed, monitoring would be recommended during ground disturbing activities to provide an opportunity to see what is below the asphalt and imported gravel.

Alternatively, a tailboard for an Archaeological Resources Awareness training, in addition to the inadvertent discovery protocol.

Communications (if with Land Owners or others):

I met with Stantec Architectural Historian Rebecca Riggs, and I was provided with a general background of the property history and built environment.

Notes:

Possible footings/foundations were found approximately 50 feet south of barn; no diagnostic artifacts were observed within or near the foundation, so just a photo and general location were recorded.

Approximately 600 feet of sidewalk northwest of property were surveyed for a possible turn lane associated with the project. Sidewalk was paved with landscaped green zones that included an irrigation system.

Photos Taken:      Y X      /      N

GIS Data Taken:    Y      /      N X

Photos/ GIS Descriptions:

Overview of survey location, disturbances, and overviews of the built environment for reference (see Rebecca Riggs's report for detailed notes and photographs of the built environment).

Attachments:

Attachment A: Survey Coverage Map

Attachment B: Photographs



## Attachment A: Survey Coverage Map



**Map 1:** Survey Coverage for 5200 Lone Tree Way Antioch, completed 7/12/2021

## Attachment B: Photographs



**Photo 1:** Overview of survey area, facing east/southeast



**Photo 2:** Overview of survey area, facing south



**Photo 3:** Overview of survey area, facing northwest



**Photo 4:** Overview of fenced off area, facing northwest



**Photo 5:** Overview of locked gate blocking access to southwest portion of survey area



**Photo 6:** Overview of utilities vault (disturbance), facing east



**Photo 7:** Overview of telecommunications boxes (disturbance), facing north



**Photo 8:** Overview of lot use for vehicle storage, facing northeast



**Photo 9:** Overview of modern refuse dump location (disturbance), facing northwest



**Photo 10:** Overview of house on property and storm drain, facing south



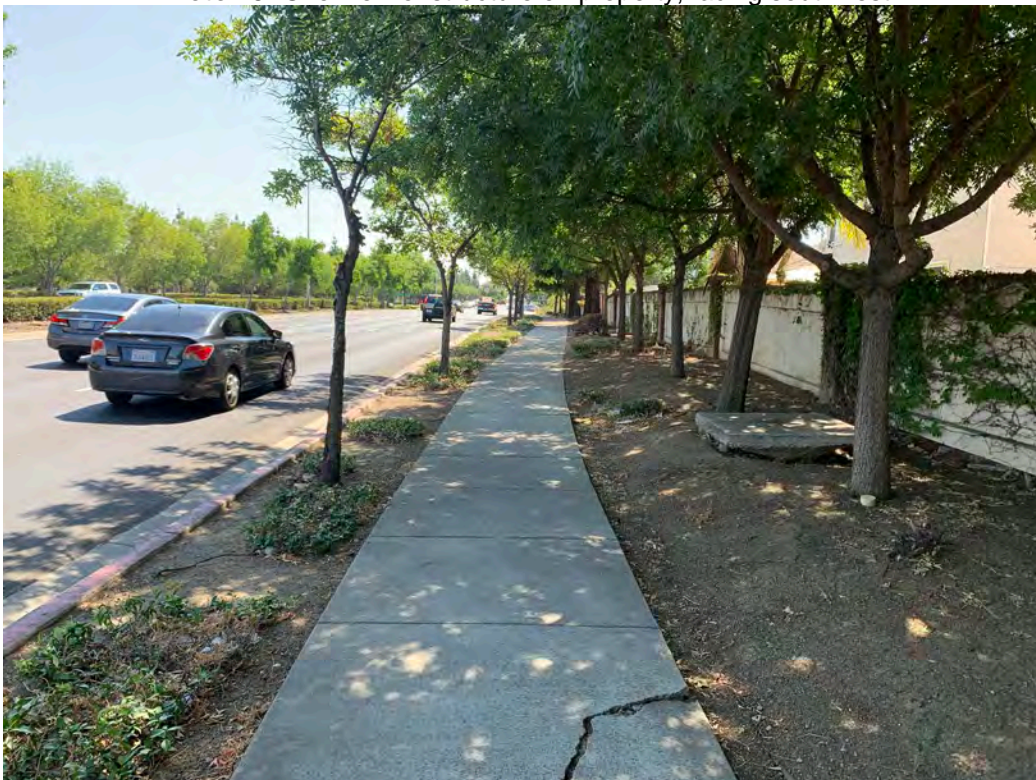
**Photo 11:** Overview of structure on property, facing southwest



**Photo 12:** Overview of structure on property, facing northeast



**Photo 13:** Overview of structure on property, facing southwest



**Photo 14:** Overview of possible turnout lane (estimate), facing east





**Photo 15:** Possible structure footing/foundation remnants, facing west/southwest

**CULTURAL RESOURCES TECHNICAL REPORT FOR 5200 LONE TREE WAY**

Appendix B Records Search Results  
August 27, 2021

**Appendix B RECORDS SEARCH RESULTS**

CALIFORNIA  
HISTORICAL  
RESOURCES  
INFORMATION  
SYSTEM



ALAMEDA  
COLUSA  
CONTRA COSTA  
DEL NORTE

HUMBOLDT  
LAKE  
MAREN  
MENDOCINO  
MONTEREY  
NAPA  
SAN BENITO

SAN FRANCISCO  
SAN MATEO  
SANTA CLATA  
SANTA CRUZ  
SOLANO  
SONOMA  
YOLO

**Northwest Information Center**  
Sonoma State University  
150 Professional Center Drive, Suite E  
Rohnert Park, California 94928-3609  
Tel: 707.588.8455  
nwic@sonoma.edu  
<http://www.sonoma.edu/nwic>

7/29/2021

NWIC File No.: 20-2690

Leven Kraushaar  
Stantec Consulting Services Inc.  
1383 North McDowell Boulevard, Suite 250  
Petaluma, CA 94954

Re: Antioch Gas Station CEQA Initial Study - 185705497 200.0002c

The Northwest Information Center received your record search request for the project area referenced above, located on the Antioch South USGS 7.5' quad(s). The following reflects the results of the records search for the project area and a 0.25 mi. radius:

Resources within project area:	None listed
Resources within 0.25 mi. radius:	P-07-000015, P-07-000303
Reports within project area:	S-11826
'Other' Reports within project area:	[17] Please see attached list, page 3
Reports within 0.25 mi. radius:	S-10413, 10509, 16917, 18187, 18557, 20218, 23674, 24466, 36622, 43437, 43476, 49353

- Resource Database Printout (list):**                     enclosed     not requested     nothing listed
- Resource Database Printout (details):**                     enclosed     not requested     nothing listed
- Report Database Printout (list):**                     enclosed     not requested     nothing listed
- Report Database Printout (details):** [Other reports only]  enclosed     not requested     nothing listed
- Resource Record Copies:**                     enclosed     not requested     nothing listed
- Report Copies:**                    [within only]     enclosed     not requested     nothing listed
- OHP Built Environment Resources Directory:**                     enclosed     not requested     nothing listed
- Archaeological Determinations of Eligibility:**                     enclosed     not requested     nothing listed
- CA Inventory of Historic Resources (1976):**                     enclosed     not requested     nothing listed
- Historical Maps:**                     enclosed     not requested     nothing listed
- Local Inventories:**                     enclosed     not requested     nothing listed
- GLO and/or Rancho Plat Maps:**                     enclosed     not requested     nothing listed

Please forward a copy of any resulting reports from this project to the office as soon as possible. Due to the sensitive nature of archaeological site location data, we ask that you do not include resource location maps and resource location descriptions in your report if the report is for public distribution. If you have any questions regarding the results presented herein, please contact the office at the phone number listed above.

The provision of CHRIS Data via this records search response does not in any way constitute public disclosure of records otherwise exempt from disclosure under the California Public Records Act or any other law, including, but not limited to, records related to archeological site information maintained by or on behalf of, or in the possession of, the State of California, Department of Parks and Recreation, State Historic Preservation Officer, Office of Historic Preservation, or the State Historical Resources Commission.

Due to processing delays and other factors, not all of the historical resource reports and resource records that have been submitted to the Office of Historic Preservation are available via this records search. Additional information may be available through the federal, state, and local agencies that produced or paid for historical resource management work in the search area. Additionally, Native American tribes have historical resource information not in the CHRIS Inventory, and you should contact the California Native American Heritage Commission for information on local/regional tribal contacts.

Should you require any additional information for the above referenced project, reference the record search number listed above when making inquiries. Requests made after initial invoicing will result in the preparation of a separate invoice.

Thank you for using the California Historical Resources Information System (CHRIS).

Sincerely,

*Annette Neal*

Researcher

## 'Other' Report selections-in

DocCo	DocNo
S-	000595
S-	000848
S-	001978
S-	002458
S-	005208
S-	009462
S-	009583
S-	009795
S-	016660
S-	017773
S-	017835
S-	018217
S-	020395
S-	030204
S-	032596
S-	033600
S-	049780

Page 1 of 3

\*Resource Name or # Lone Tree School

\*Recorded by: C. Wills

\*Date: 12/29/1993 (Updated: S. Pappas 8/23/2013 )

Continuation

Update

1. Impacts observed since site formation/use:

- Constructed trail  Wildlife path  Grading  Recreational use by humans (campfire ring, etc.)  Fire  
 Erosion  Vandalism/pothunting/artifact collection  New vegetation growth  Modern trash deposits  
 Fire break  Construction  Vegetation removal  None  Other (explain):

2. Is the site location narrative accurate?

- Yes  No (explain):

3. Is the site description narrative accurate?

- Yes  No (explain): Site has been severely impacted since previous recording.

4. Were new photos taken? Attach photograph record and paste representative photo below.

- Yes  No (explain):

5. Date of site revisit: 8/23/2013

6. Revisited by: S. Pappas; ECORP Consulting, Inc., 2525 Warren Drive, Rocklin, CA 55677

7. Reason for revisit (check all that apply):

- USACE 2-year requirement  Collect GPS data/Impact Mapping  Evaluation of Eligibility  
 Change in project area conditions (fire, flood, etc.)  Other (explain):

8. Report citation: 2013. Westwood, Lisa and Stephen Pappas. *Cultural Resources Inventory Report, Antioch Autozone, Contra Costa County, California*. Report on file at ECORP Consulting, Inc. Rocklin, California.

9. Were survey grade UTM coordinates gathered?

- Yes  No (explain):

10. Remarks:

The Lone Tree School was originally recorded as seven features: an area of raised concrete platforms, foundation walls, and two sets of stairs (all identified as Feature 1); a U-shaped concrete slab; a concrete slab with sectioned-off partition and plumbing pipes (possible restroom); three raised concrete platform/ramps located west of the main foundation areas; and a former sandbox in the northeast corner of the site. Also noted were piles of broken concrete, scattered surface refuse, and a broken up asphalt driveway in the southern end of the site.

During ECORP's revisit, the site appeared to have been severely altered due to construction activities after the initial recording in 1993. The only remaining features were the U-shaped concrete slab and the possible restroom foundation. None of the raised platforms, walls or steps from Feature 1 could be found. The walls and steps may have been removed or graded, as well as the ramps in the western portion of the site. No indications of a sandbox were observed as the majority of the surface had base rock and granitic rocks imported and graded. Additionally, after review of the site sketch map, it appeared that the eastern end of the site may have been demolished from construction of apartment complexes directly east of the Project Area.

A few mounds of broken concrete were found piled on top of the bathroom foundation, but it was not clear if the piles were from recent nearby construction or from the school house. No historic artifacts were observed within the site boundaries. Overall, the site appeared to be in poor condition with further destruction caused by disturbance from surrounding construction.

S-43476

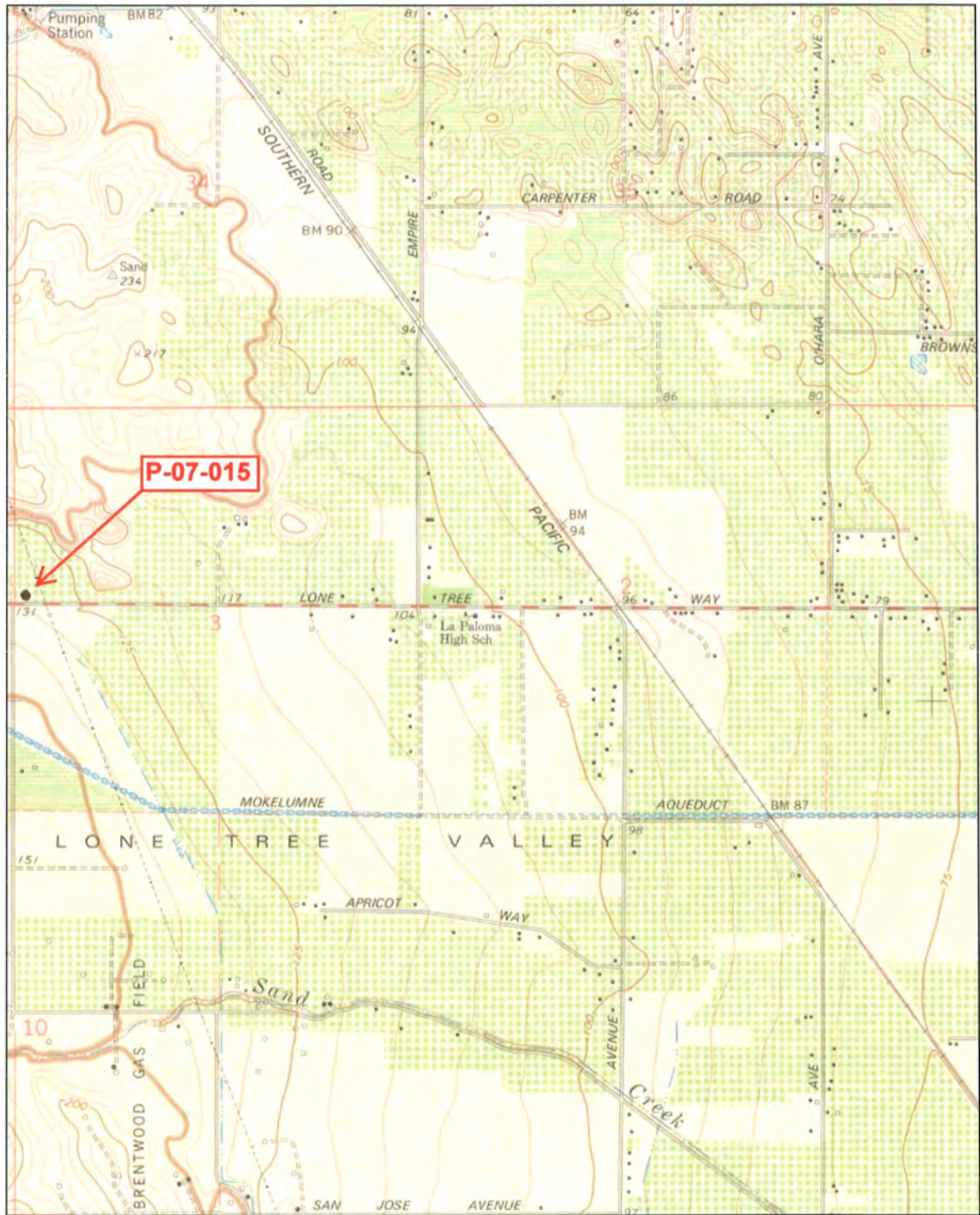
b.



Possible bathroom foundation with raised concrete pad in background, view south, 8/23/2013, Photo #006



Raised concrete pad overview, view west, 8/23/2013, Photo #011





# ARCHEOLOGICAL SITE RECORD

**Primary No.:** P-07-000015  
**Permanent Trinomial:** CA-CCo-692H  
**Supplement?** No  
**Other Designations:** F-12

**Page 1 of 5**

1. **County:** Contra Costa County
2. **USGS Quad:** Brentwood, Calif. 7.5'. ( #4632; 1978)
3. **UTM Coordinates:** Zone 10, N4202145mN/E609925mE. (609880 mE)
4. **Township 1N Range 2E;** NW 1/4 of SW 1/4 of SW 1/4 of NW 1/4 of Section 3, MDBM
5. **Map Coordinates:** 174mmS/45mmE.
6. **Elevation:** 130 feet above sea level.
7. **Location:** Exiting the City of Antioch to the south, travel on Lone Tree Way south about 5 miles to Sand Creek Road and park by the roadside. Site is located on the northeast corner of the intersection of Lone Tree Way and Sand Creek Road.
8. **Prehistoric**      **Historic** XX      **Protohistoric**
9. **Site Description:** The site consists of the foundation of the Lone Tree School, which appears on the 1911 USGS topographic quadrangle map of the area and was still identified on the 1954 USGS topographic map (photorevised 1968). Since it is not found on the 1873 State Geological Survey of California map, it can be concluded that it was constructed sometime between 1873 and 1911.

The site currently consists of concrete foundation walls, concrete and asphalt walkways, a former sandbox, and piles of both modern and old debris. The wooden sandbox (still containing sand) is located to the north of the schoolhouse foundation and measures 20' 6" by 8' 6".

10. **Area:** Elliptical; 27 meters NS by 37 meters EW; 785 square meters (pacing).
11. **Depth:** N/A      **Method of Determination:** N/A
12. **Features:** The site consists of the foundation of the former Lone Tree School (Feature 1).

Feature 1 comprises a series of raised concrete platforms and concrete foundation walls. A square, "U"-shaped, concrete slab measuring 37' 7" by 14' 4" by 13" in height, with a

## ARCHAEOLOGICAL SITE RECORD

Primary No.: P-07-000015  
Permanent Trinomial: CA-CCo-692H  
Supplement? No  
Other Designations: F-12

### Page 2 of 5

6' deep indentation into the "U" on the northwestern side, is located adjacent to Lone Tree Way. Northwest of this concrete slab lies a rectangular foundation still outlined in concrete walls. This begins next to the raised, square, concrete "U", and extends for a length of 32 feet straight back away from the "U." This rectangular foundation was 39' across the northwestern end, with a height of 13 to 15" and a width of approximately 8". Two small sets of concrete stairs lead up to the foundation wall, on the northeastern and southwestern sides, and a third set of concrete stairs were constructed between the rectangular foundation and the raised platform/foundation to its northwest.

Northwest of the rectangular foundation and the third set of stairs is another well-defined area divided into three sections. Overall this area measured 11' 6" northeast-southwest by 39' northwest-southeast. Two 6'-wide sections on the northwestern side of this area are of raised (~28.5") concrete, and are divided in two by a 7.5" wide wall. These appear to have been the restrooms, since there are large plumbing pipes still present. The southeastern portion of this section is another area defined simply by a wall 8" in width and ~13" in height. To the west of this feature were three concrete ramps, perpendicular to the school house foundation. The larger of these measured 52' 6" long, was 62" wide and varied in height from 2 to 11" tall. This ramp had 2" diameter round holes along the southwestern side every 6 to 6.5'. Twelve feet south of this ramp were two additional ramps, approximately 14' long. These were abutted end to end.

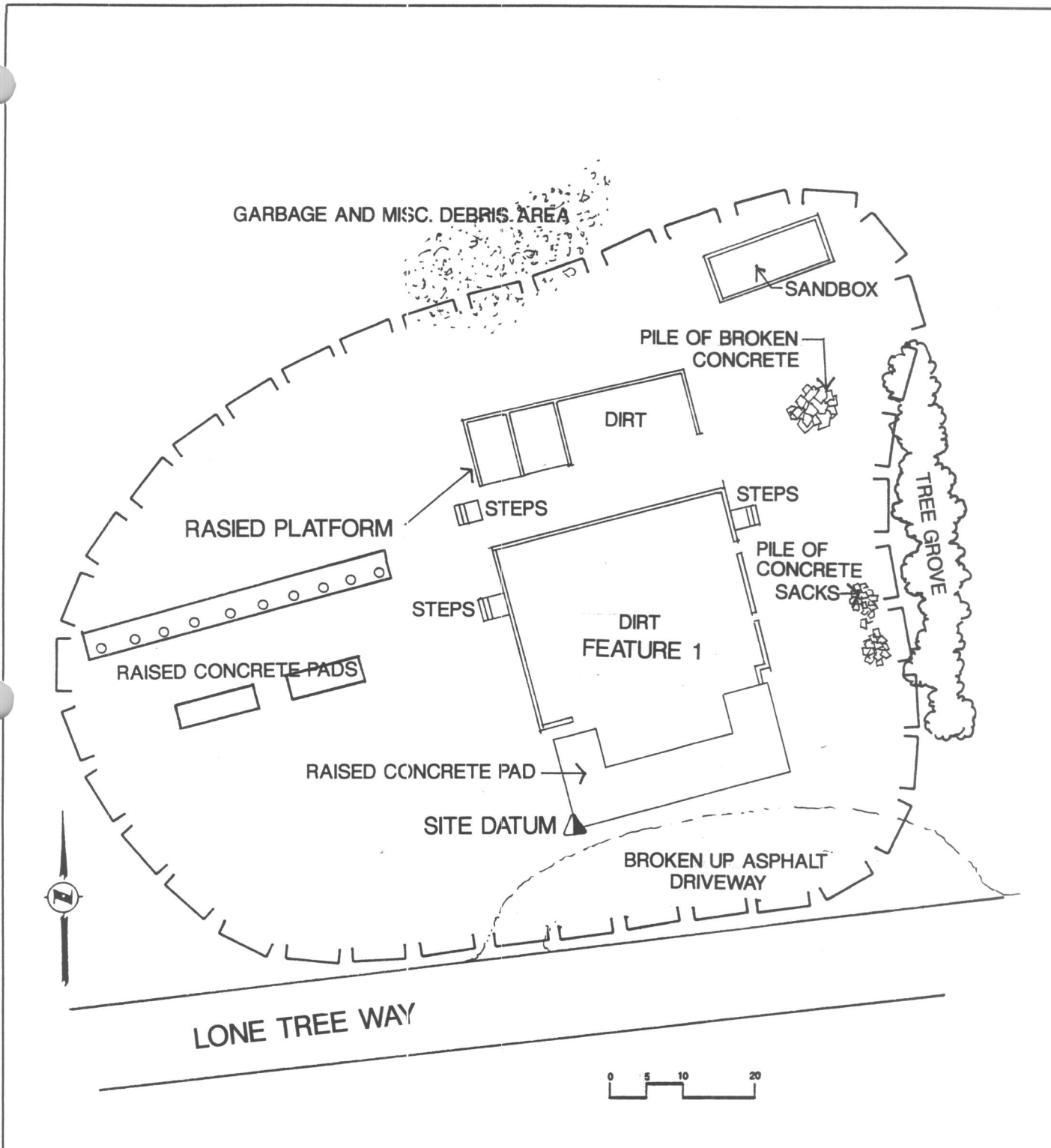
13. **Artifacts:** Although there are numerous artifacts present, due to the extensive dumping in this area, it is impossible to distinguish artifacts recently dumped and ones possibly associated with the school.
14. **Non-Artifactual Constituents and Faunal Remains:** None observed.
15. **Date Recorded:** 29 December 1993.
16. **Recorded By:** Carrie D. Wills.
17. **Affiliation and Address:** William Self Associates, PO Box 2192, Orinda, CA 94563. (510) 631-0342; FAX (510) 254-3353.
18. **Human Remains:** None observed.
19. **Site Disturbance:** Almost 100% due to extensive dumping and mechanical grading; subject to future development.

## ARCHEOLOGICAL SITE RECORD

Primary No.: P-07-000015  
Permanent Trinomial: CA-CCo-692H  
Supplement? No  
Other Designations: F-12

Page 3 of 5

20. **Nearest Water:** Sand Creek flows approximately 1 1/2 miles south of the site.
21. **Vegetation Community (vicinity):** Valley Oak (Quercus lobata) and Live Oak (Quercus agrifolia), Star Thistle (Centaurea solstitialis), Wild Oats (Avena fatua), Turkey Mullein (Eremocarpus setigerus), Morning Glories (Convolvulus), Lupine (Lupinus), Wild Artichokes (Cynara scolymus), and various other native and imported vegetation.
22. **Vegetation (on-site):** Largely barren of vegetation; one almond tree.
23. **Site Soil:** Medium-brown clay.
24. **Surrounding Soil:** Same as Item 23 above.
25. **Geology:** No visible bedrock.
26. **Landform:** Flat, alluvial plain.
27. **Slope:** 0%.
28. **Exposure:** Almost 100% to both sun and wind.
29. **Landowner:** Unknown.
30. **Remarks:** Large piles of dumped debris limited both the observation of the site's surface and artifact determination.
31. **References:** *Archeological Survey Report, Future Urban Area 2, Antioch, Contra Costa County, California* (in preparation). William Self Associates, Orinda.
32. **Name of Project:** Antioch Future Urban Area 2.
33. **Type of Investigation:** Surface reconnaissance.
34. **Site Accession No.:** None.
35. **Curated At:** N/A.
36. **Photos:** FUA 2, Roll 1, #17-25.



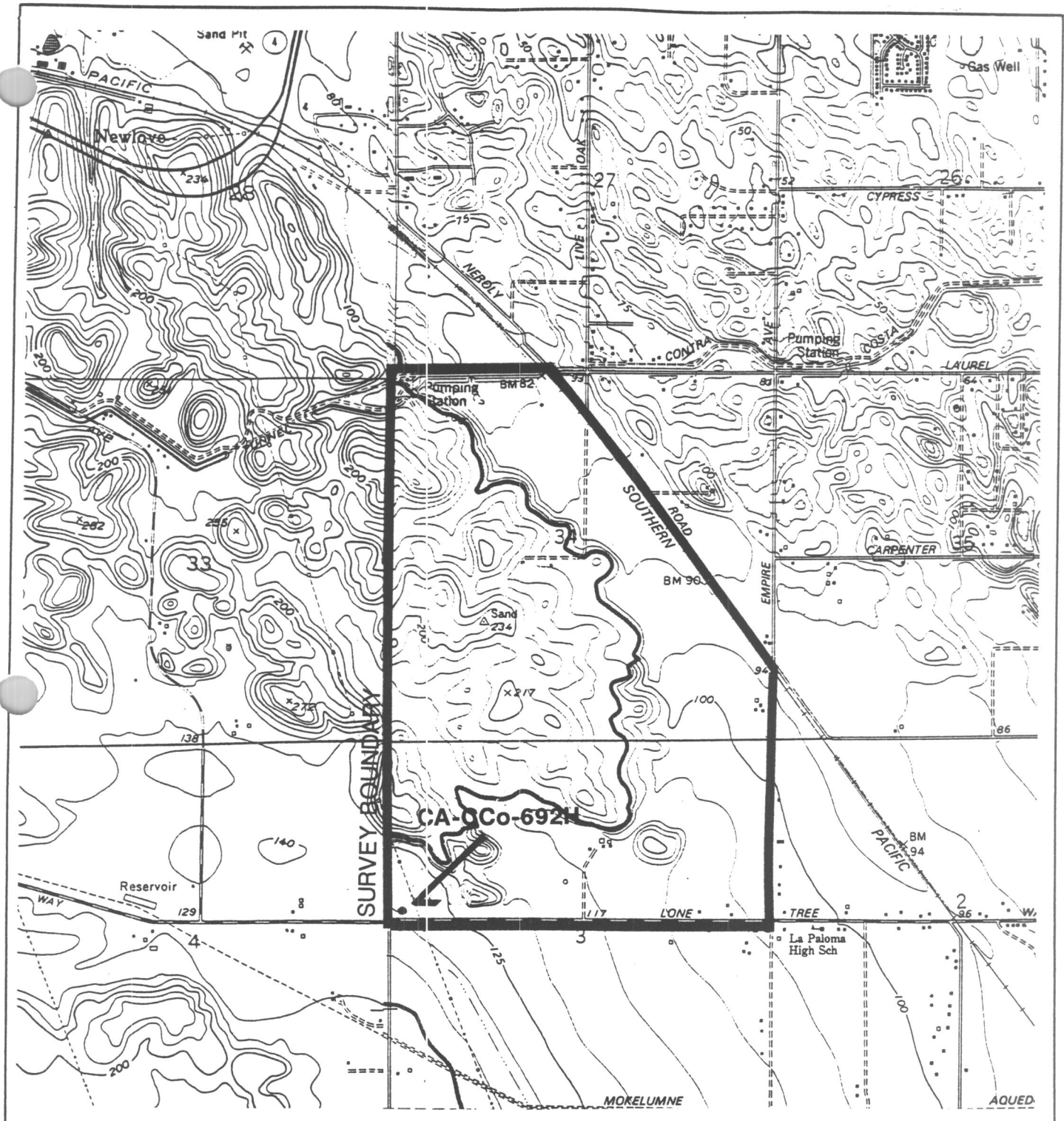
**FEATURE**

- 1. Concrete platforms and foundation walls

ARCHEOLOGICAL SITE  
MAP

**FUTURE URBAN  
AREA 2**

**CA-CCo-692H**



	<p>ANTIOCH SOUTH, CALIF. N3752.5 - W1214577.5 1953 PHOTOREVISED 1980 DMA 1659 IV NE-SERIES V895</p>	<p>BRENTWOOD, CALIF. N:752.5 - W12137.57.5 1978 AMS 1659 I NW-SERIES V895</p>	<p>QUADRANGLE LOCATION</p>
<p>CONTOUR INTERVAL. 20 AND 5 FEET NATIONAL GEODETIC VERTICAL DATUM OF 1929</p>			

**ARCHEOLOGICAL SITE  
LOCATION MAP**  
  
**FUTURE URBAN  
AREA 2**  
  
**CA-CCo-692H**

CONFIDENTIAL INFORMATION NOT FOR PUBLIC DISTRIBUTION - PREPARED BY WILLIAM SELF ASSOCIATES

## METADATA SHEET

OHP HPD PROGRAM REFERENCE: NPS-87000003-0000

This resource is listed in the Office of Historic Preservation/Historic Properties Directory. This resource has also been assigned a Primary Number. Therefore, a copy of the National Register records has been added to the Primary File.

P-07-000303  
NPS-87000003-0000

Date: May 25, 2016

NWIC Staff: *Annette Neal*

## METADATA SHEET

**P-07-000902**

The Primary/Trinomial Number has been voided because this resource was inadvertently assigned two Primary/Trinomial Numbers. Please see the following Primary Number:

**P-07-000303**

Date: May 25, 2016

NWIC Staff: *Annette Neal*

FINAL

P-07-000303

OMB No. 1024-0018  
Exp. 10-31-84

CA-CCO-532/H

United States Department of the Interior  
National Park Service

National Register of Historic Places  
Inventory—Nomination Form

See instructions in *How to Complete National Register Forms*  
Type all entries—complete applicable sections

For NPS use only  
NPS-87000003-0000  
received

date entered

St. HS. LNDMK 8700003

1. Name

historic Shannon Ranch/Williamson Ranch

and/or common Williamson Ranch

2. Location

street & number R.R. 1, Lone Tree Way N/A not for publication

city, town Antioch N/A vicinity of congressional district 7

state California code 06 county Contra Costa County code 013

3. Classification

Category	Ownership	Status	Present Use
<input type="checkbox"/> district	<input type="checkbox"/> public	<input checked="" type="checkbox"/> occupied	<input checked="" type="checkbox"/> agriculture
<input checked="" type="checkbox"/> building(s)	<input checked="" type="checkbox"/> private	<input type="checkbox"/> unoccupied	<input type="checkbox"/> commercial
<input type="checkbox"/> structure	<input type="checkbox"/> both	<input type="checkbox"/> work in progress	<input type="checkbox"/> educational
<input type="checkbox"/> site	<b>Public Acquisition</b>	<b>Accessible</b>	<input type="checkbox"/> entertainment
<input type="checkbox"/> object	<input type="checkbox"/> in process	<input checked="" type="checkbox"/> yes: restricted	<input type="checkbox"/> government
	<input type="checkbox"/> being considered	<input type="checkbox"/> yes: unrestricted	<input type="checkbox"/> industrial
	<input checked="" type="checkbox"/> n/a	<input type="checkbox"/> no	<input type="checkbox"/> military
			<input type="checkbox"/> museum
			<input type="checkbox"/> park
			<input checked="" type="checkbox"/> private residence
			<input type="checkbox"/> religious
			<input type="checkbox"/> scientific
			<input type="checkbox"/> transportation
			<input type="checkbox"/> other:

4. Owner of Property

name Donald Williamson, Naomi Williamson, Shirley Williamson Perry

street & number R.R. 1, Box 1115

city, town Antioch N/A vicinity of state California

5. Location of Legal Description

courthouse, registry of deeds, etc. Contra Costa County Recorder's Office

street & number 822 Main Street

city, town Martinez state California

6. Representation in Existing Surveys

1. Historic Archaeological Site, CA-CCO-532H  
title 2. Preliminary Survey of Historic Properties has this property been determined eligible?  yes  no

date 1. April 1986  
2. July 1986  federal  state  county  local

1. California Archaeological Inventory-Northwest Information Center  
depository for survey records 2. Antioch Historical Society/City of Antioch

1. Sonoma State Univ., 1801 Cotati Avenue, Rohnert Park California  
city, town 2. City Antioch, City Hall, Antioch state California



United States Department of the Interior  
National Park Service

**National Register of Historic Places  
Inventory—Nomination Form**

For NPS use only

received

date entered

Continuation sheet

Item number 4

Page 2

Two utility right-of-way easements cross the property. Although not owners in fee simple, the two easement holders are noted below for the record:

Pacific Gas and Electric Company  
77 Beale Street  
San Francisco, CA 94105

East Bay Municipal Utility District  
2130 Adeline Street  
Oakland, CA 94607

## 7. Description

### Condition

excellent  
 good  
 fair

deteriorated  
 ruins  
 unexposed

### Check one

unaltered  
 altered

### Check one

original site  
 moved date N/A

### Describe the present and original (if known) physical appearance

The Williamson/Shannon ranch, a 398.01-acre parcel, evolved from the original 160 acres homesteaded in the late 1860s by Thomas Shannon, who planted wheat, barley, and hay. The present building complex, which contains several of the original buildings, owes much of its appearance to subsequent development by William Williamson from 1895 to 1929. The original log cabin burned c. 1894, and the present house was built in its place and completed c. 1896. Williamson added several additional buildings. The structures are essentially unaltered from their historic appearances. Integrity for the complex as a whole, including the surrounding farmland, remains high from the period of association with Williamson.

The property terrain consists of gently rolling hills surrounded by open space, bounded on the north by Lone Tree Way and by fencing on the remaining three sides. The farm land is presently in pasture with volunteer hay. An almond orchard planted in the 1860s is situated between Lone Tree Way and the tank house and granary and on the east and south sides of the house. An array of various trees, such as eucalyptus, pepper, olive, cedar, and palm trees, are located within the 6-acre complex. The house is surrounded by decorative shrubbery and enclosed with wire and wood-frame fencing.

The approximate 3,200-square-foot house is a two-story central block with a one-story wing extending to the south and sits on a masonry pier foundation. The house and roof are constructed of wood frame, with wood shiplap horizontal siding and composition roof (originally wood shingles). A 6'-7'9" wide porch with canopy wraps around the north, west, and south sides of the central block and the west side of the wing. A 30' enclosed, screened porch is located on the east side of the house. The porch is 7' wide at the wing and 5' wide along the central block. (The house is Feature A on the sketch map.)

The roof of the wing is side-gabled, and the roof of the central block is hipped with a widow's walk at its peak. A triangular dormer with a finial on top is on the north side of the hipped roof. The dormer contains a half-circle, quarter-paned window and has a patterned shingle-front side. The house has two chimneys, one on both sections, with the chimney on the wing containing a chimney pot.

Entranceways are located on the north, west, and east sides of the central block and the east and west sides of the wing, the wing containing two entrances on the west side. An entrance to the concrete wall cellar under the kitchen is located on the west porch of the wing.

The first story of the north facade contains an octagonal bay extension at the northeast corner where the side windows are double hung with two panes vertically splitting each sash. The larger center window is a single hung with window pane pattern stained glass bordering the pane of the upper sash. Single-paned, paired windows are on the north facade, west of the main entrance. The second story of the north facade has three double-hung windows, each sash with two vertically split panes. The first and second stories of the three remaining facades of the central block have two each of the same type windows. The wing has one each of the identical window on the west, south, and east facades.

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Curved brackets are located at the corners at the roof line and along the frieze of the covered porches above the columns. Simplified spindles trim the covered porch and railing. A triangular pediment with decorative wood carving is over the front entry on the north side. Farm utensils are hung on the first floor exterior west side as decorative pieces.

The porches and interior floors are 1"x4" tongue and groove pine. The central block has 10' high ceilings and the wing has 9' ceilings. The doors are paneled solid redwood with doorknobs of clear glass on the interior and white porcelain on the exterior. Decorative redwood molding frames each door in the central block. The doors and molding in the central block are painted to give the appearance of wood grain. The parlor contains a coal burning fireplace with cast iron coal bin, framed in raised deco celedon-colored tile and oak. A beveled mirror framed in oak is above the oak mantel. The fireplace is in excellent condition and looks new. The kitchen walls in the wing have vertical tongue and groove 3/4"x4" wood paneling, painted white.

A cistern is located adjacent to the east side of the wing at the southeast corner. A 2' octagonal wood wall surrounds the 8'2"x8'4" cistern and a 10' high roof resting on 8 posts shelters the cistern. (Feature K on map)

The tank house is wood frame with 9" tongue and groove horizontal wood siding and situated on a concrete sill. The roof is pyramidal with the original wood shingles. The tank house is 16'6"x16'6" at the base tapering to approximately 16'x16' at an 8' high level. A 6'2"x31" entrance way is located on the south side. A fixed window is located on each of the west, north and east sides. The original water tank is situated in the upper level supported by trussed rafters. Below the roof eaves on all sides is an approximate 2' high wood criss-cross decorative facade. The windmill, which was removed in the early 1950s, was located on the west side of the tank house. (Feature C)

The grainery is a 32'8"x24'2" simple side gabled wood frame structure with a lean-to. The structure is 12' high from ground to roof peak and rests on a mud sill. The structure has one principal room and a rearward extension, each with a separate entry. The principal room rests on a dry laid stone foundation. The east, west and south sides have random-rough redwood vertical siding. The north side has horizontal planks with exterior exposed studs on center resting on the floor joists. The extended roof on the north side is supported by four posts. The structure has no windows. An entranceway is centered on the north side of the principal room at a 3' high elevation. The height of the floor made it easier to load grain onto the wagons. The floor is wood 3/4"x6" tongue and groove. The rearward extension has a dirt floor and a 5'8"x9'9" sliding door hung on an iron round track with rollers on the east side. The south side of the structure has a corrugated tin roof and the north side has the original wood shingles. (Feature B)

The bunk house is a 12'4"x12' wood frame structure with board & batten exterior siding. It has a front-gabled roof, the original wood shingles having been replaced several years ago with corrugated tin. The structure sits on a wood sill. The wood floor of 3/4"x6" tongue and groove is 2' high from the ground. A rectangular boulder is used as a step into the 5'11"x29-3/4" entranceway on the west side. One fixed, four-pane window is centered on the east side. The structure is in poor condition with a board missing near the southeast corner and some internal fire damage to some of the rafters. (Feature D)

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The "old shop", cow/buggy barn and horse barn are all wood frame structures with redwood 1x10 random rough siding. All three structures sit on redwood piers, however the "old shop" originally had mud sills. Each barn has dirt floors, except for the cow/buggy barn which originally had a partial wood floor now replaced by concrete on 1/4 of the floor area. The horse barn and "old shop" have front-gabled roofs and the cow barn has a salt box roof. The original wood shingle roofs on each structure have been replaced with corrugated tin. The horse barn has two 20" square green plastic skylights on the north side.

The "old shop" is a 20'5"x22' structure, 13' to the peak. It has a sliding 8'x7'3" sliding door hung on a rectangular iron track with rollers on the east side. (Feature F)

The cow/buggy barn is 35'x40' and 20' high at the peak. It has an 11'6"x14'7" sliding door on the west side and a 7'6"x8' sliding door on the east side, both doors hung on iron tracks with rollers. A 6'2"x4'6" entranceway is also located on the west side near the southwest corner. A hay door is located on the west side near the roof peak. A small 28'x26" opening with a wood door is located on the south side near the southwest corner. (Feature E)

The horse barn is a 56'x70'7" structure, 25' high at the peak. A 10'x16' sliding door is located on both the west and east sides near the south facade. Also, a 7'6"x6'6" sliding door is located on both the east and west sides near the north facade. The sliding doors are all hung on rectangular iron tracks with rollers. One 2' square sliding wood hatch is located on the south wall and eight 1'6" square sliding wood hatches are located on the north wall. The horse barn has the original Jackson fork for loading hay into the barn through the hay door on the west side near the roof peak. (Feature J)

The hay barn, a 31'8"x45'5" wood frame and open horizontal wood slat structure, was moved onto the property by William Williamson in the early 1920s from property he purchased north of Lone Tree Way. It is front gabled with a corrugated tin roof which is rusting. (Feature G)

A wood frame chicken house with rough wood vertical siding is located north of the "old shop". It is an approximate 6'x8' structure, front-gabled, with a corrugated tin roof. (Feature L)

A garage, 20'5"x14'5" wood frame structure with board & batten siding is located west and south of the house. It is front-gabled with a wood shingle roof. It has an approximate 18'x8' sliding door on the north side with track and post 16' to the east. (Feature H)

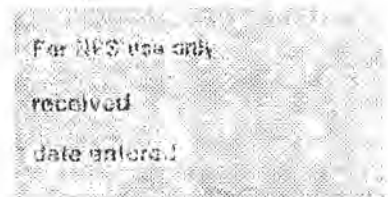
The grainery, "old shop", cow/buggy barn and the chicken house are the earliest built structures on the property, constructed around 1868. The bunk house was built in the 1880s and the horse barn was built in the early 1890s. The family lived in the grainery when the original cabin burned in 1894. A now-patched hole on the east wall of the grainery was cut for the stove pipe. The cow/buggy barn, originally a wagon shed in 1868, was expanded in 1894 to its present state.

Located a short distance east of the 1895 house is the site of the original privy for the homestead. This privy feature dates from c. 1868. Only a depression remains in the ground; the structure was torn down in the 1940s. Although this site has not been subject to any detailed investigation, its early association with the property suggests the possibility of historical archeological values. (Feature I)

A modern house trailer was moved onto the property within the last 20 years. Located southwest of the house, it is occupied by the caretaker. (Feature M)

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The barns are all weathered and in fair condition. The house, tank house and garage are all in excellent condition and freshly painted. Nineteenth century farm utensils, machinery and house fixtures and furniture are stored in the barns and bunk house. Plows, tillers and other machinery from the late 19th and early 20th century are lying about on the south side of the hay barn and "old shop". Some of the original fence posts are still located on the property. Several corrals are located south and west of the horse barn. The only major alterations to any of the structures on the property were the replacement of some roofing materials in 1982.

List of Features

<u>Map letter</u>	<u>Feature</u>	<u>Construction date</u>	<u>Contributing/non-contrib.</u>
A	House	c. 1895-96	Contributing
B	Grainery	c. 1868	Contributing
C	Tank house	c. 1895-96	Contributing
D	Bunk House	1880s	Contributing
E	Cow/buggy barn	c. 1868/enlarged c. 1894	Contributing
F	"Old shop"	c. 1868	Contributing
G	Hay barn	unknown/moved early 1920s	Contributing
H	Garage	early 1920s	Contributing
I	Privy feature (site)	c. 1868	Contributing
J	Horse barn	1895	Contributing
K	Cistern	c. 1895-96	Contributing
L	Hen house	c. 1868	Contributing
M	House trailer	modern	Non-contributing

Resource Count: Nine contributing buildings  
Two contributing structures (tank house & cistern)  
One contributing site (privy feature)  
One non-contributing object (house trailer)

## 8. Significance

Period	Areas of Significance—Check and justify below			
<input type="checkbox"/> prehistoric	<input type="checkbox"/> archeology-prehistoric	<input type="checkbox"/> community planning	<input type="checkbox"/> landscape architecture	<input type="checkbox"/> religion
<input type="checkbox"/> 1400–1499	<input type="checkbox"/> archeology-historic	<input type="checkbox"/> conservation	<input type="checkbox"/> law	<input type="checkbox"/> science
<input type="checkbox"/> 1500–1599	<input checked="" type="checkbox"/> agriculture	<input type="checkbox"/> economics	<input type="checkbox"/> literature	<input type="checkbox"/> sculpture
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<input type="checkbox"/> 1700–1799	<input type="checkbox"/> art	<input type="checkbox"/> engineering	<input type="checkbox"/> music	<input type="checkbox"/> theater
<input checked="" type="checkbox"/> 1800–1899	<input type="checkbox"/> commerce	<input checked="" type="checkbox"/> exploration/settlement	<input type="checkbox"/> philosophy	<input type="checkbox"/> transportation
<input type="checkbox"/> 1900–	<input type="checkbox"/> communications	<input type="checkbox"/> industry	<input type="checkbox"/> politics/government	<input type="checkbox"/> other (specify)
		<input type="checkbox"/> invention		

**Specific dates** c. 1895–1929 **Builder/Architect** Unknown

### Statement of Significance (in one paragraph)

The Williamson/Shannon ranch is the only 19th century farm complex in eastern Contra Costa County which has survived intact to the present. It is significant for its association with the early agricultural industry in Contra Costa County, namely wheat and barley, and their importance to the county and state. Wheat was the dominant field crop in Contra Costa County for nearly half a century until the 1890s. Contra Costa County was also a leading producer of barley in the state and in the nation. The farm has been owned and operated by descendants of Thomas Shannon for four generations through the present, a span of 117 years. The Williamson/Shannon ranch is also significant because it is one of a few working 19th century farms in Contra Costa County which evoke a feeling and association with the agriculture industry of this time period, not only by each of its separate components but as a complete complex. The buildings have retained their historical integrity, original fabric, and character of the late 1800s. The house, completed in c. 1896, is an eclectic Italianate style with free classic adaptation and spindlework representative of rural housing built between 1880–1900. While the appearance of the complex is late 19th century, the period of significance extends through the life of William Williamson who continued to develop the property until his death in 1929.

Thomas and Mary Ann Shannon, Irish immigrants, homesteaded in Lone Tree Valley near Antioch, California in 1867 and were deeded 160 acres through the Homestead Act of 1862(1). The Shannons planted wheat, barley, and hay on their land, wheat being their primary crop. Lone Tree Valley was on its way to becoming known as a wheat-growing area. Thomas Shannon applied for citizenship in 1873 and at that time he was attested to owning a house, barn, corral, orchard, well, granary, chicken house, wagon shed, and one-half mile of fencing. He also owned 2 wagons, 4 horses, 4 mules, 2 cows, 1 hog, and poultry.(2) In October 1876, the Shannons acquired an additional 240 acres bordering their parcel to the south.(3) An 1877 assessment record depicts the Shannons as owning 146 a. in wheat, 60 a. in barley, and 110 a. in hay.

Contra Costa County was a leader in the state's barley production, producing 12% of the state's barley in 1879. For over 20 years, since 1859, California produced 30% of the nation's barley. Barley was used primarily as feed to domestic animals but at times brought higher prices than wheat in markets because of its demand for use in making lager beer and ale.(4)

Wheat was the dominant field crop in Contra Costa County from the 1850s to the 1890s, and it was famed throughout foreign markets for its whiteness and strength.(5) Wheat was hauled by wagons pulled by four and eight-horse teams to ports from Antioch to Crockett and stored in warehouses until ocean-going vessels arrived to transport the wheat to markets in northwestern Europe.(6) California was a leading producer of wheat during the last half of the 19th century, and five times between 1872 and 1884 was the nation's leading producer.(7) An 1882 history of Contra Costa County claimed that "a gentleman purchased a quarter section of land for \$15 per acre and seeded it in wheat....His first crop paid for the land and left him a surplus of six hundred dollars."(8)

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In the midst of the peak years for wheat production in Contra Costa County, Thomas Shannon died and Mary Ann continued to operate the farm. In 1888, she sold the original 160 a. to William Williamson, her new son-in-law. During the same time, Mary Ann purchased a home in Antioch, keeping 240 a. of the farm for income. After her death in 1893, her only daughter, Elizabeth, and William Williamson inherited the 240 a.(9)

William owned and operated the farm until his death in 1929. A 1917 biographical sketch of William states that he "has been identified with agricultural pursuits of this county for many years." He is also described as "prominent among the more active, enterprising, and influential citizens of eastern Contra Costa County." William was a director of the First National Bank of Antioch from its beginnings in 1911 and a member of the Antioch school board for 26 years.(10)

The farm prospered and additional livestock was purchased in 1892 and 1893.(11) A new horse barn and a new cow/buggy barn was built by 1895 as evidenced by an insurance certificate dated August 5, 1895 by the Scottish Union National Insurance Company. It insures two barns, one for \$400 and one for \$100, the horse and cow barn respectively. It also insures "wagons, buggies, carriages and harness" for \$100; \$50 on farming implements, "not including combined harvester, steam engine, separators or appurtenances"; and \$150 on his header, "all while contained in last above described barn."

William and Elizabeth built the present house after the cabin burned in c1894. (Ashes are visible beneath the house today.) The family lived in the grainery structure while the new house was being built. The new house was constructed in two phases, the wing completed first in c1895 and the central block in c1896.(12) Presumably the tank house was built during the same time period. The garage was built by William in the early 1920s.

The farm, its open space and building complex, continue to evoke the sense of an agricultural period in the history of Contra Costa County which has long since passed. Farm implements and machinery of the late 1800s are still present about the farm and stored in the barns. The Jackson hay forks used by William are still hanging from the ceiling of the horse barn and "old shop" where William hung them. The barns are weathered and only the roofs have been replaced, occurring four years ago. The house, tank house and garage are in excellent condition and have also retained their original fabric. A few minor alterations have been made in the interior house wing. The interior wood trim, doors, etc. are all original to the house.

The grain industry in Contra Costa County in the 1800s stimulated new business growth and employment in areas such as blacksmithing, farm implement factories, lumber industry, shipping and flour mills. The effects of the grain industry also resulted in the forming of communities, building of country roads, and cutting of canals. These same forces are now having a negative impact on the farms in Contra Costa County. The Williamson/Shannon Ranch is presently threatened with the push of development and road widening in the current surge of growth in Contra Costa County.

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The Williamson/Shannon ranch is the only 19th century ranch complex in eastern Contra Costa County preserved completely intact and the only operating farm which has retained its historic integrity. The house possesses a uniqueness of architectural type and period, design, setting, location, materials, feeling and association in this area. Each structure is also a "museum" in itself in that each houses farming implements, machinery, furniture and other 19th century items utilized during the operation of the farm since the late 1800s. The property is a cultural resource which represents a particular, yet rapidly diminishing way of life in America, especially in this rapidly suburbanizing California county, at the expense of rapid growth and development. It is imperative that this cultural resource not be compromised by road expansion or superfluous development.



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ENDNOTES:

1. CCC, RO, Book of Patents, 1875, V.2, p.256; Assessment Record, 1874, Book 1, pg. 302; Ibid. 1877, Book 10, pg. 92.
2. CCC, Clerk's Office, Decrees of Naturalization, April 22, 1874; U.S. Department of Commerce, Population Schedules, 1870, CCC, pg. 85; Ibid. 1880, CCC, pg. 41; Williamson family papers.
3. CCC, RO, Book of Deeds, Vol 35, pg. 194-195.
4. U.S. Department of Commerce, Bureau of the Census, 1883 Report on the Production of Agriculture, June 1, 1880, Vol. 3, pg. 497-498.
5. Mae Fisher Purcell, History of Contra Costa County (Berkeley: Gillick, 1940), pg. 403-404.
6. Margery S. Hellman, "Port Costa, California Wheat Center", in The California Geographer, Vol. 14, 1963, pg. 65-66; Goodan, Douglas and T. C. Shatto, "Changing Land Use in Ygnacio Valley, California", in Economic Geography, April 1948, Vol. 24, pg. 135-148.
7. Margery S. Hellman, "Port Costa, California Wheat Center", in The California Geographer, Vol. 14, 1963, pg. 65-66; U.S. Bureau of the Census, 10th Census, 1883, Report on the Production of Agriculture, June 1, 1880, Vol. 3; Ibid. 11th Census, 1895, Report on the Statistics of Agriculture in the U.S., 1890.
8. J.P. Munro-Fraser, History of Contra Costa County, California (San Francisco: W.A. Sloum, 1882), pg. 492.
9. CCC, RO, Decrees of Distribution, 1894, pg. 443.; Ibid 1907, #3053.
10. F. J. Hulaniski, The History of Contra Costa County, California (Berkeley: Elms, 1917), pg. 539-540; Antioch Ledger, January 17, 1929.
11. Assessment Record, CCC, 1892, Book 10, pg. 679; Ibid, 1893, Book 10, pg. 749.
12. Donald Williamson interviews, March 23 & 29, 1986. Family records, Leslie Williamson.

## 9. Major Bibliographical References

Contra Costa County Recorder's Office, Deeds, Mortgages, & Official Records: Assessment Records, Contra Costa County Historical Society; U.S. Bureau of the Census, Report on the Production of Agriculture, 1883 & 1895; Donald Williamson, Interviews, March 23 & 29, 1986, Family records and letters of Leslie Williamson, April 4, 1986; Janet Pape, "An Archaeological Survey of Williamson/Shannon Homestead, Antioch, CCC, CA" April 14, 1986.

## 10. Geographical Data

Acreeage of nominated property 398.01

Quadrangle name Antioch South

Quadrangle scale 1:24000

### UTM References

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9	0
2	0

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B 

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9	0
5	0

4	2	0	0	0	6	0
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C 

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8	2
5	0

4	2	0	0	0	6	0
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D 

1	0
6	0
8	2
3	0

4	2	0	2	0	6	0
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E 


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F 


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G 


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H 


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**Verbal boundary description and justification** AP#s 054-050-010, 054-050-002, 054-060-01, 054-070-01

The southwest quarter of Section 4 and northwest quarter and the north half of the southwest quarter of Section 9, Township 1 North, Range 2 East of Mount Diablo base and Meridian, CCC Deeds, 1875, Vol. 2, pg. 256; Ibid, 1878, vol. 35, pg. 194-195. Boundaries are

**List all states and counties for properties overlapping state or county boundaries**

state	n/a	code	county	n/a	code
-------	-----	------	--------	-----	------

state	code	county	code
-------	------	--------	------

## 11. Form Prepared By

name/title Janet L. Pape, Cultural Resource Consultant

organization n/a date August 1, 1986

street & number 1672 Oxford Street, #14 telephone (415) 849-4521

city or town Berkeley state California 94709

## 12. State Historic Preservation Officer Certification

The evaluated significance of this property within the state is:

national  state  local

As the designated State Historic Preservation Officer for the National Historic Preservation Act of 1966 (Public Law 89-665), I hereby nominate this property for inclusion in the National Register and certify that it has been evaluated according to the criteria and procedures set forth by the National Park Service.

State Historic Preservation Officer signature *Kathryn Mullen*

title State Historic Preservation Officer date 11/26/86

For NPS use only

I hereby certify that this property is included in the National Register

date

Keeper of the National Register

Attest:

date

Chief of Registration

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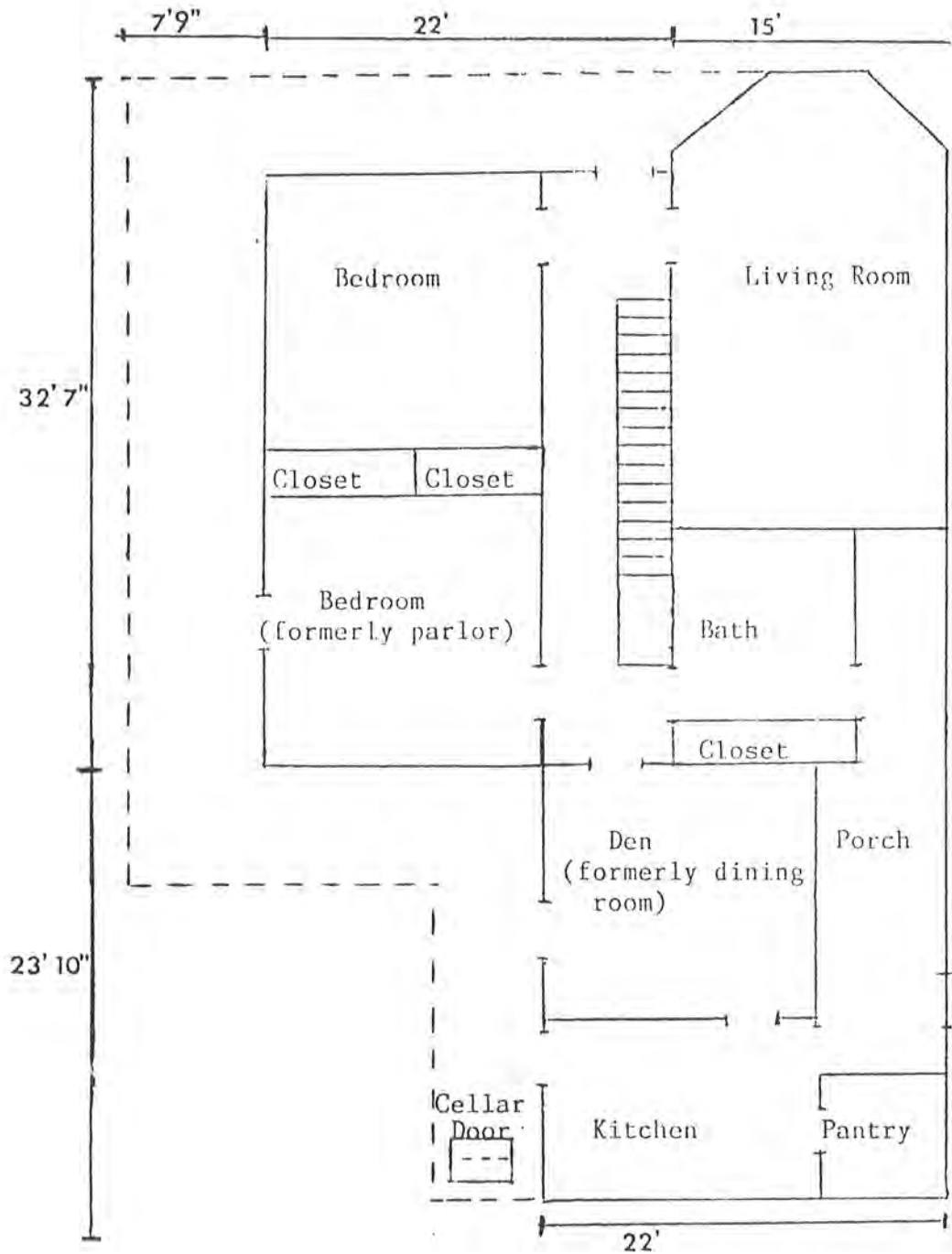
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drawn upon the historic (and current) property lines as they had evolved by 1893; boundaries are shown on attached maps.

WILLIAMSON/SHANNON HOUSE

First Floor



Scale: 1 cm = 1 ft.

SHANNON RANCH/WILLIAMSON RANCH  
R.R. 1, Lone Tree Way  
Antioch, Contra Costa County, CA  
House floorplan

**LEGEND**

- A = House
- B = "Grainery"
- C = Tank House
- D = Bunk House
- F = "Old Shop"
- G = Hay Barn
- H = Garage
- I = Privy Feature
- J = Horse Barn
- K = Cistern
- L = Hen House
- M = House Trailer
- [Symbol] = Farm Machinery
- [Symbol] = historic fence/ fence posts
- [Symbol] = footed bathtub
- [Symbol] = coiled wire
- [Symbol] = lumber
- [Symbol] = fencing
- [Symbol] = almond orchard
- [Symbol] = olive tree
- [Symbol] = cedar tree
- [Symbol] = pepper tree
- [Symbol] = palm tree
- [Symbol] = eucalyptus tree
- [Symbol] = wood slat fence
- [Symbol] = windmill site
- [Symbol] = datum
- g = clear glass frag.
- i = ironstone frag.
- bg = brown glass frag.
- [Symbol] = gravel road
- [Symbol] = square nail
- [Symbol] = metal harness frag.
- [Symbol] = barbed wire
- \* F=Cow/buggy barn

**DISTANCES**

- ▲ Datum (telephone pole) to:
- Southern boundary 1,050 ft.
- Western boundary 30 ft.
- Eastern boundary 240 ft.
- northern boundary of livestock area 310 ft.

SITE BOUNDARY LINE

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HOMESTEAD  
CA-CFO-532H

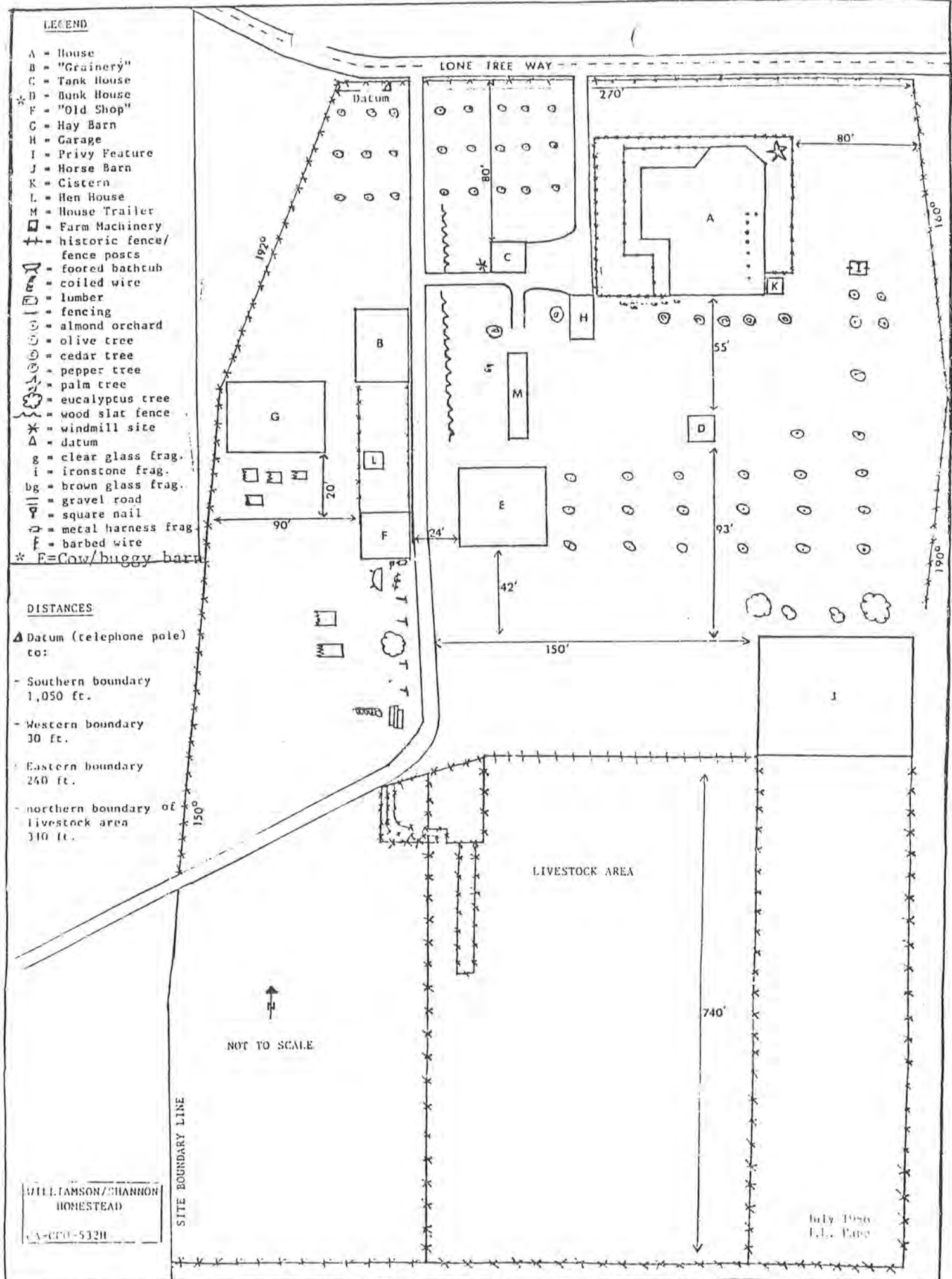
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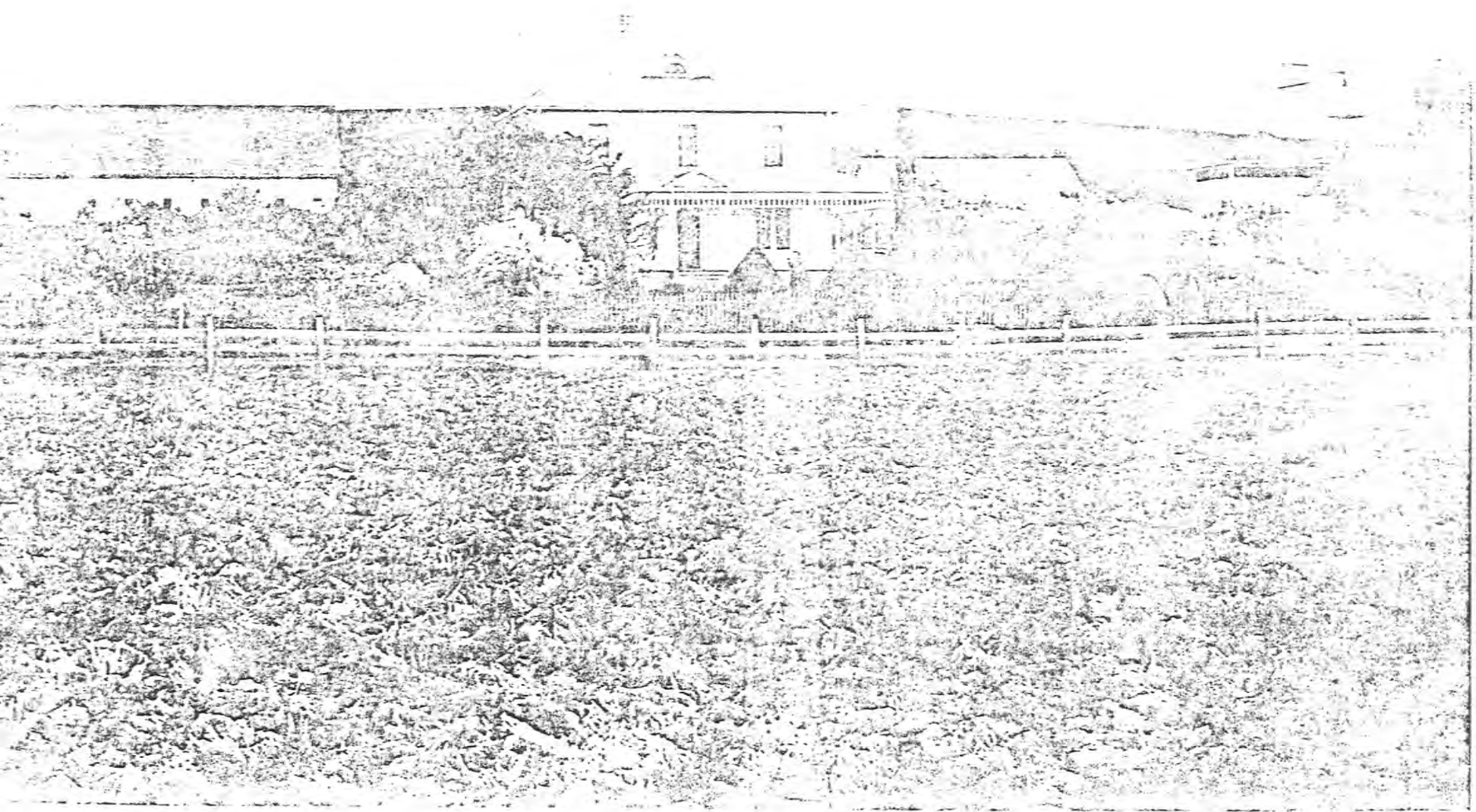
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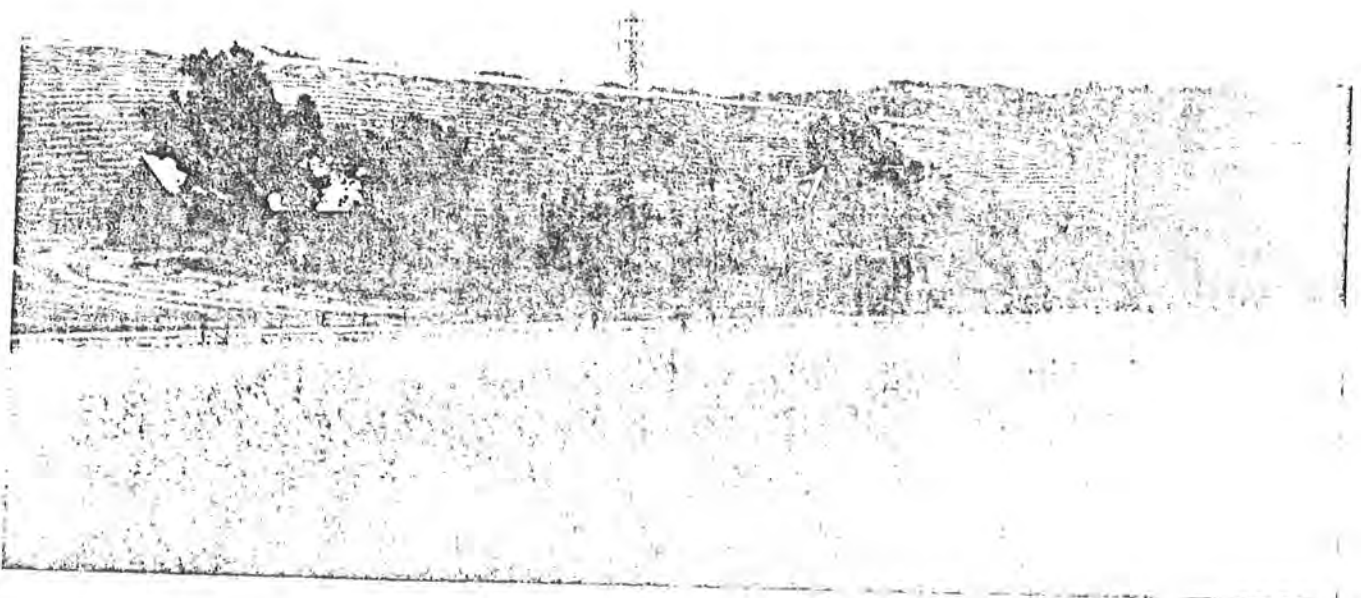
July 1956  
J.L. Carr

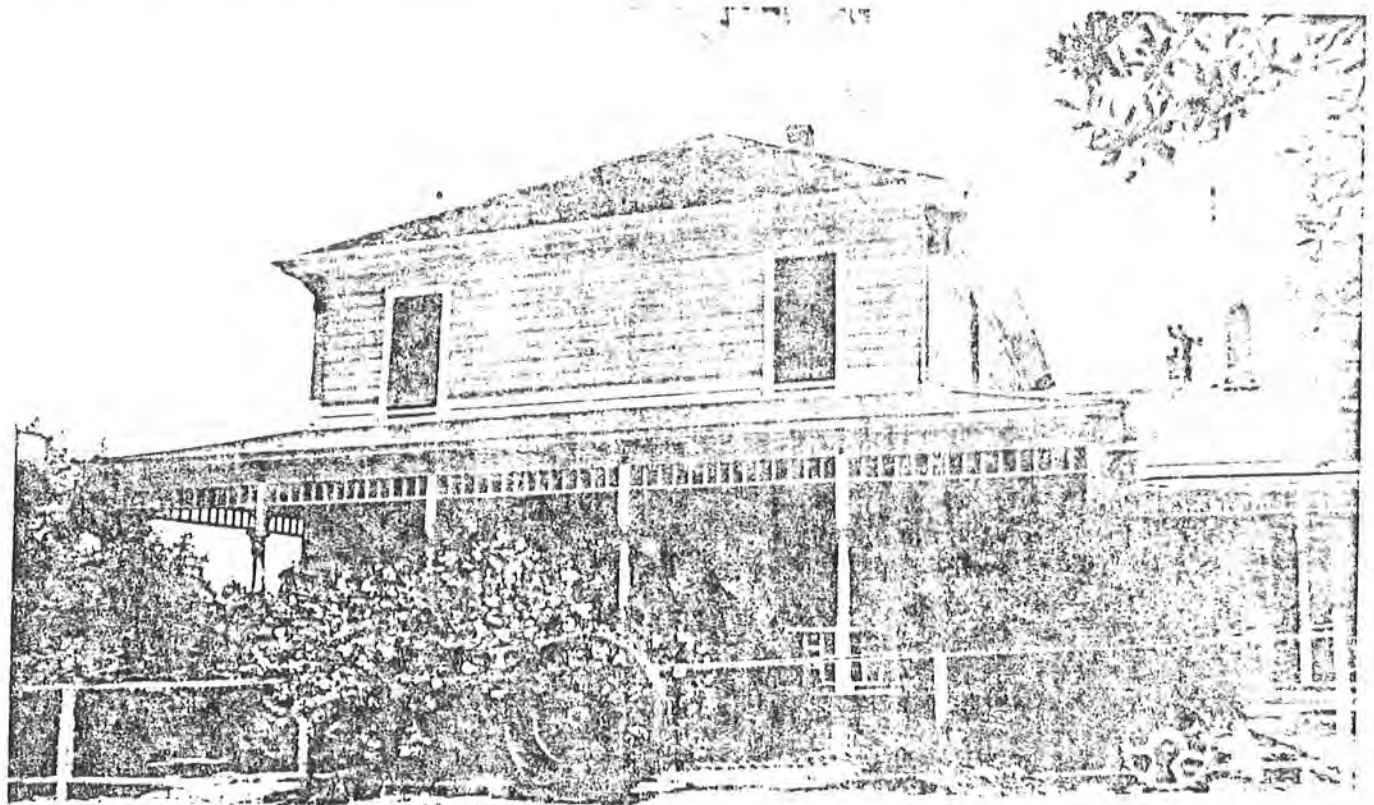
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Sketch map, not to scale

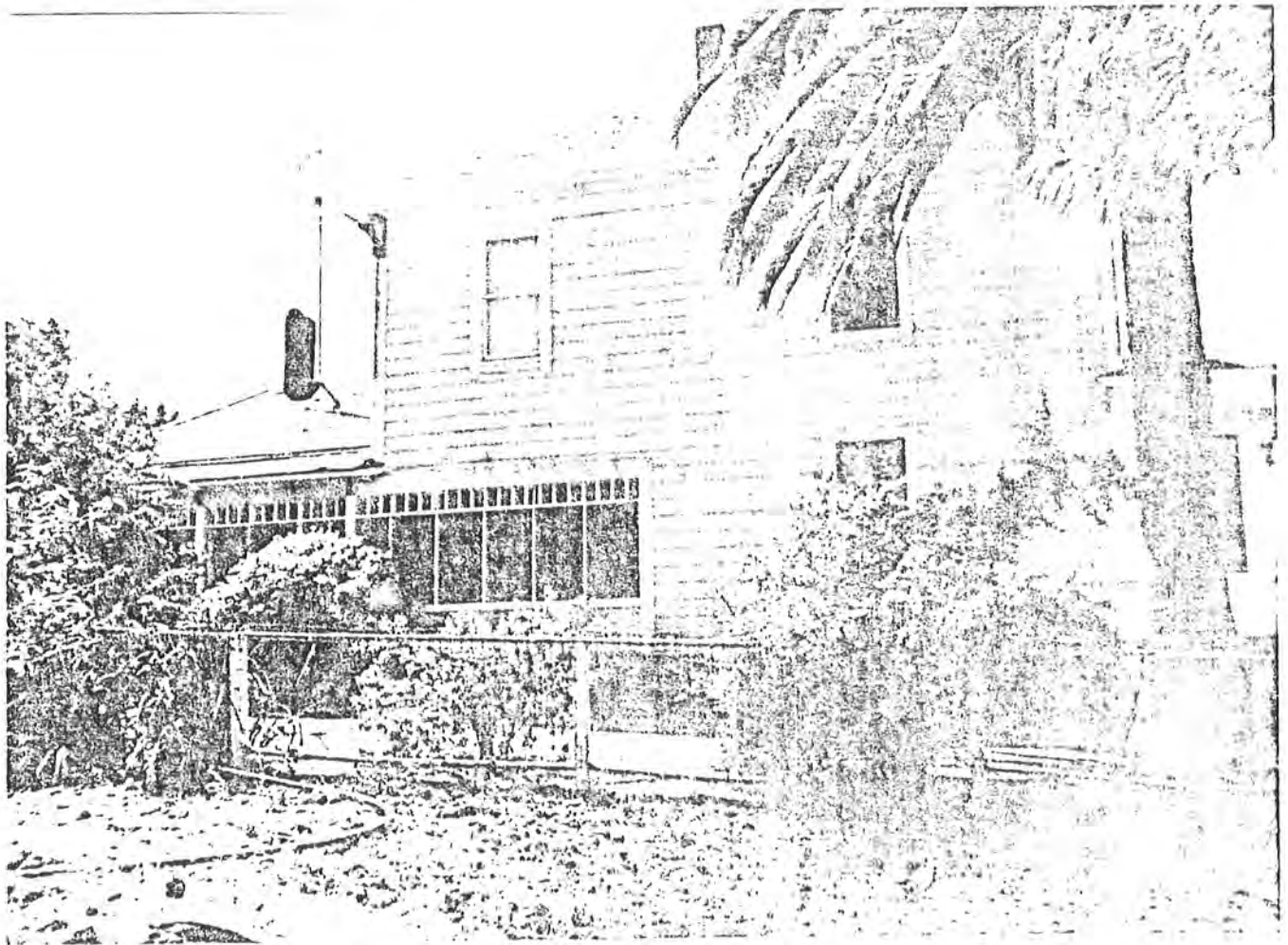
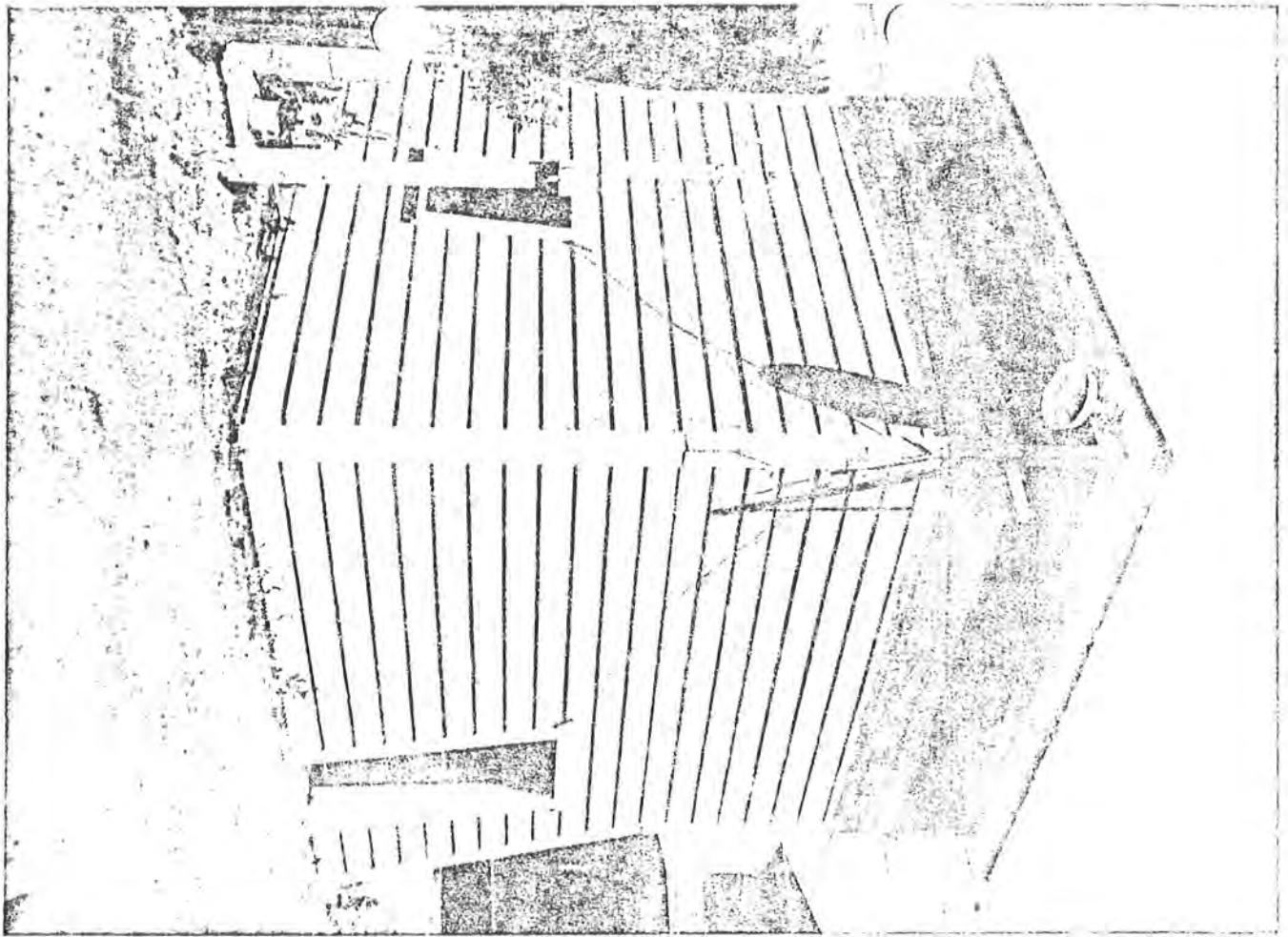


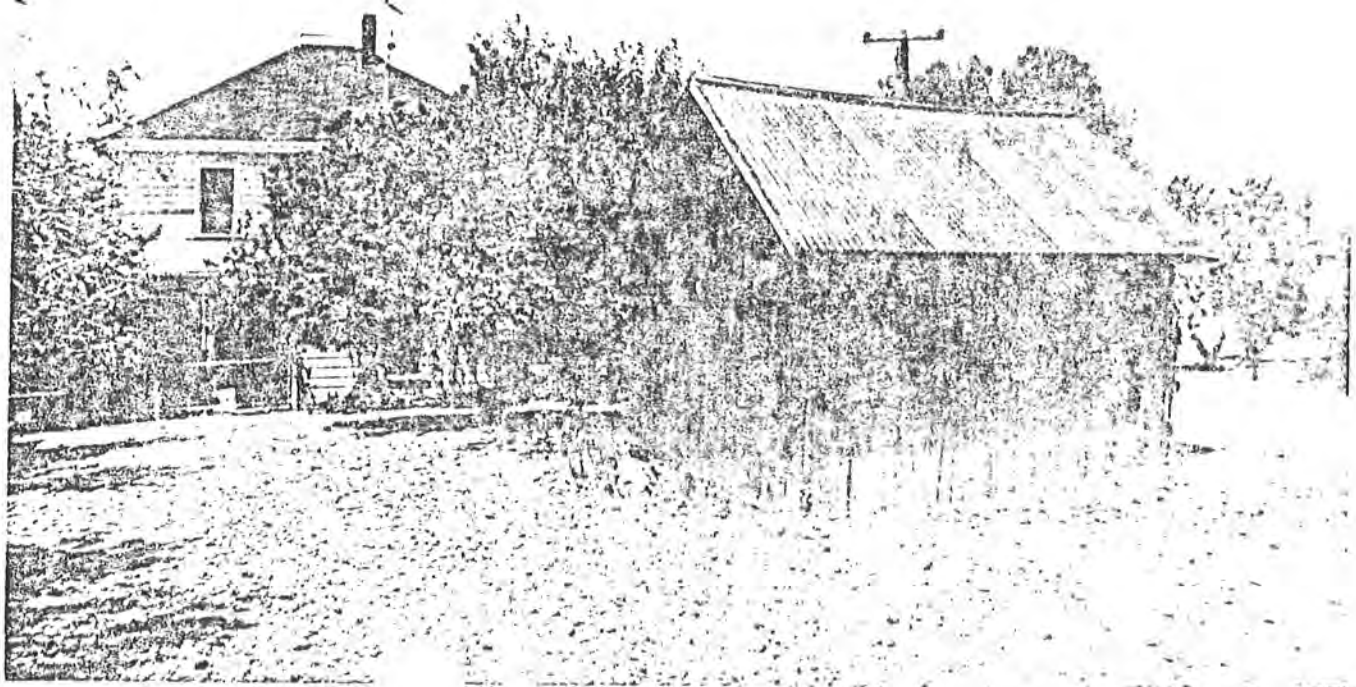
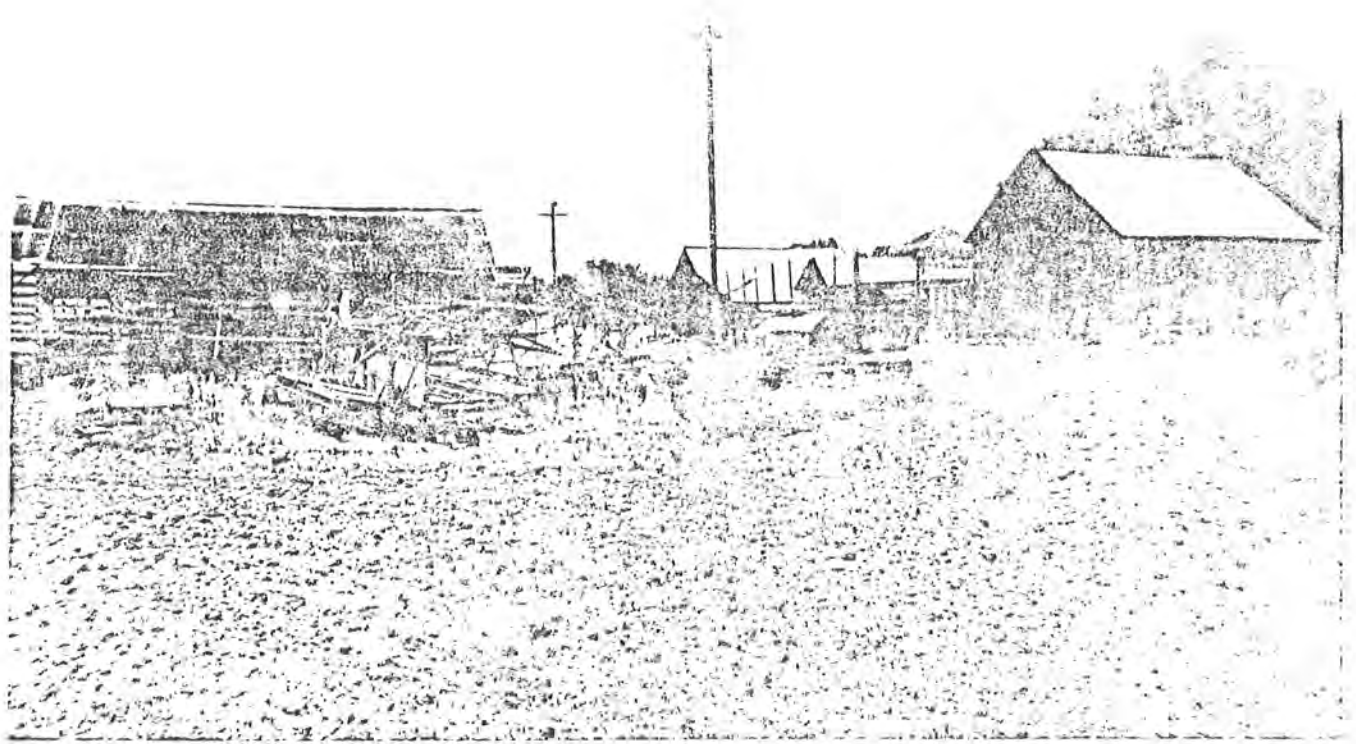


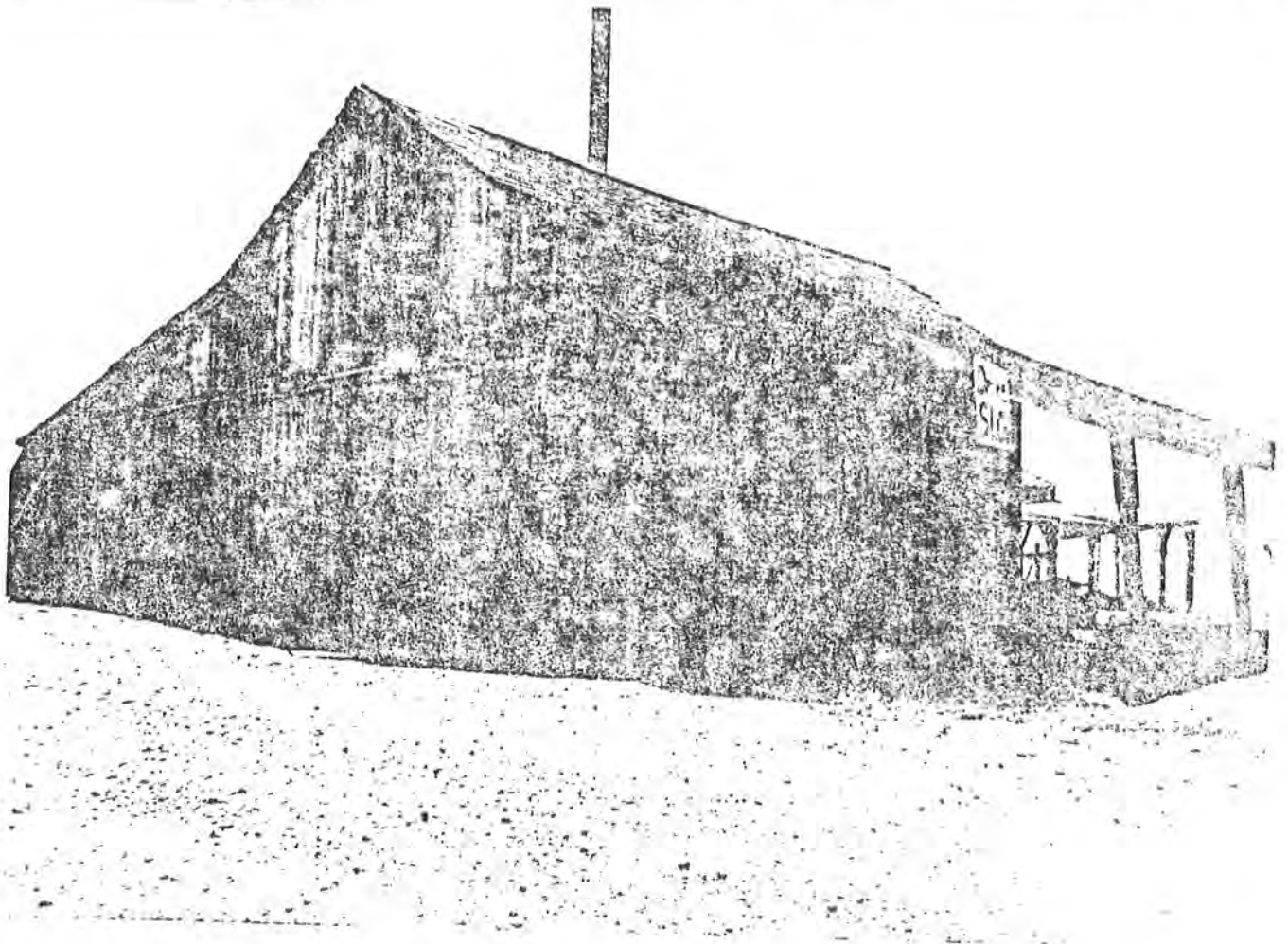
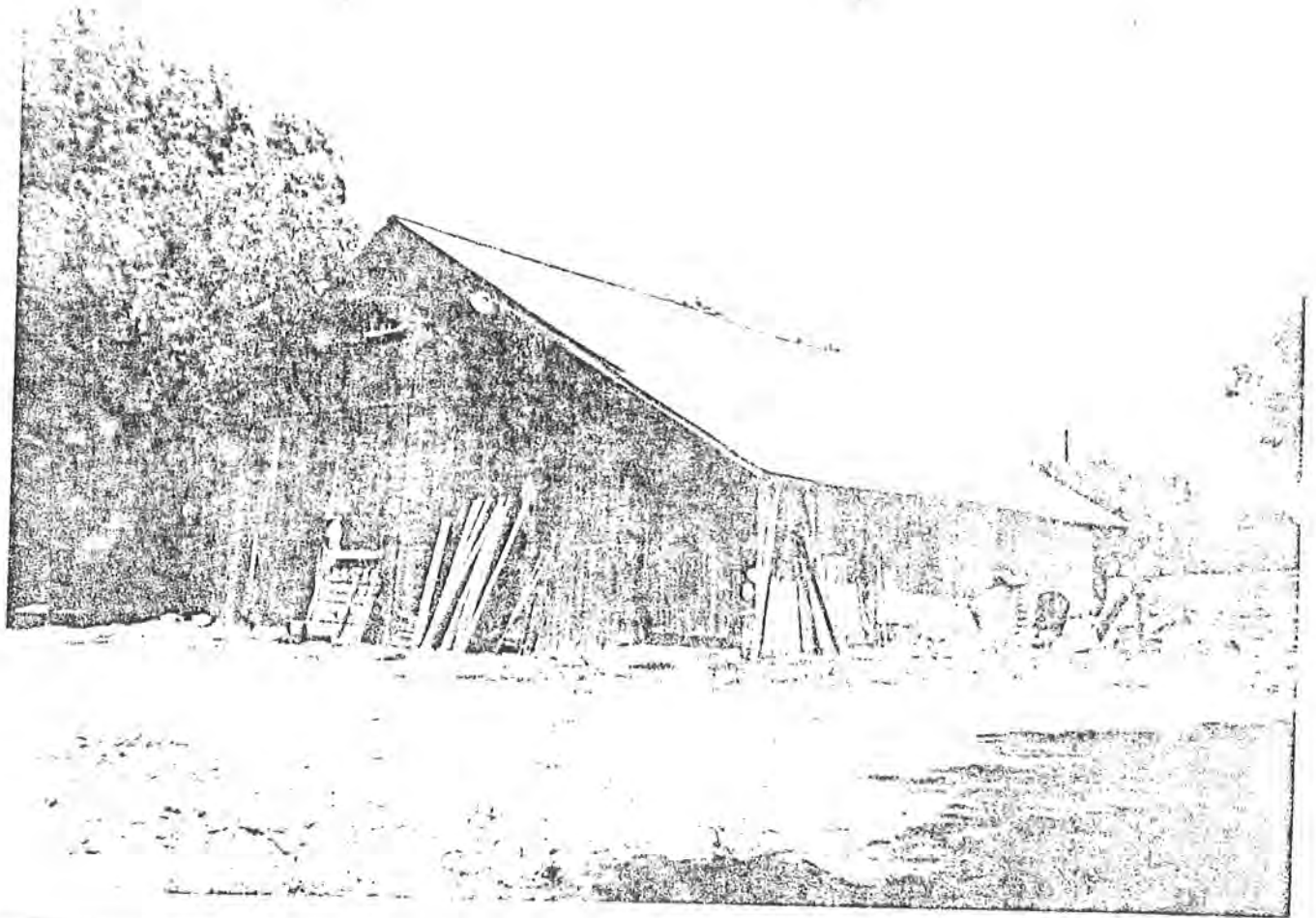


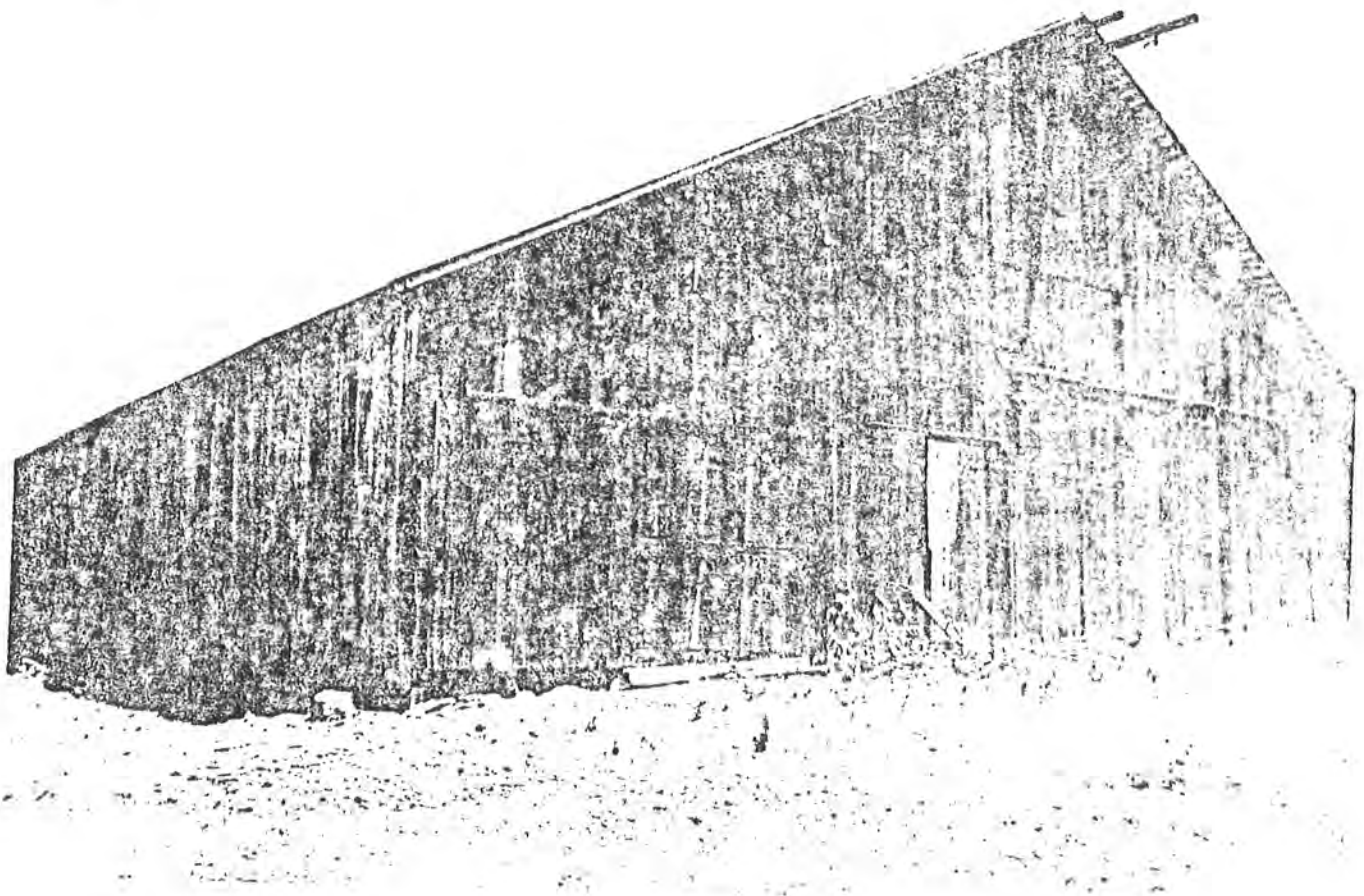
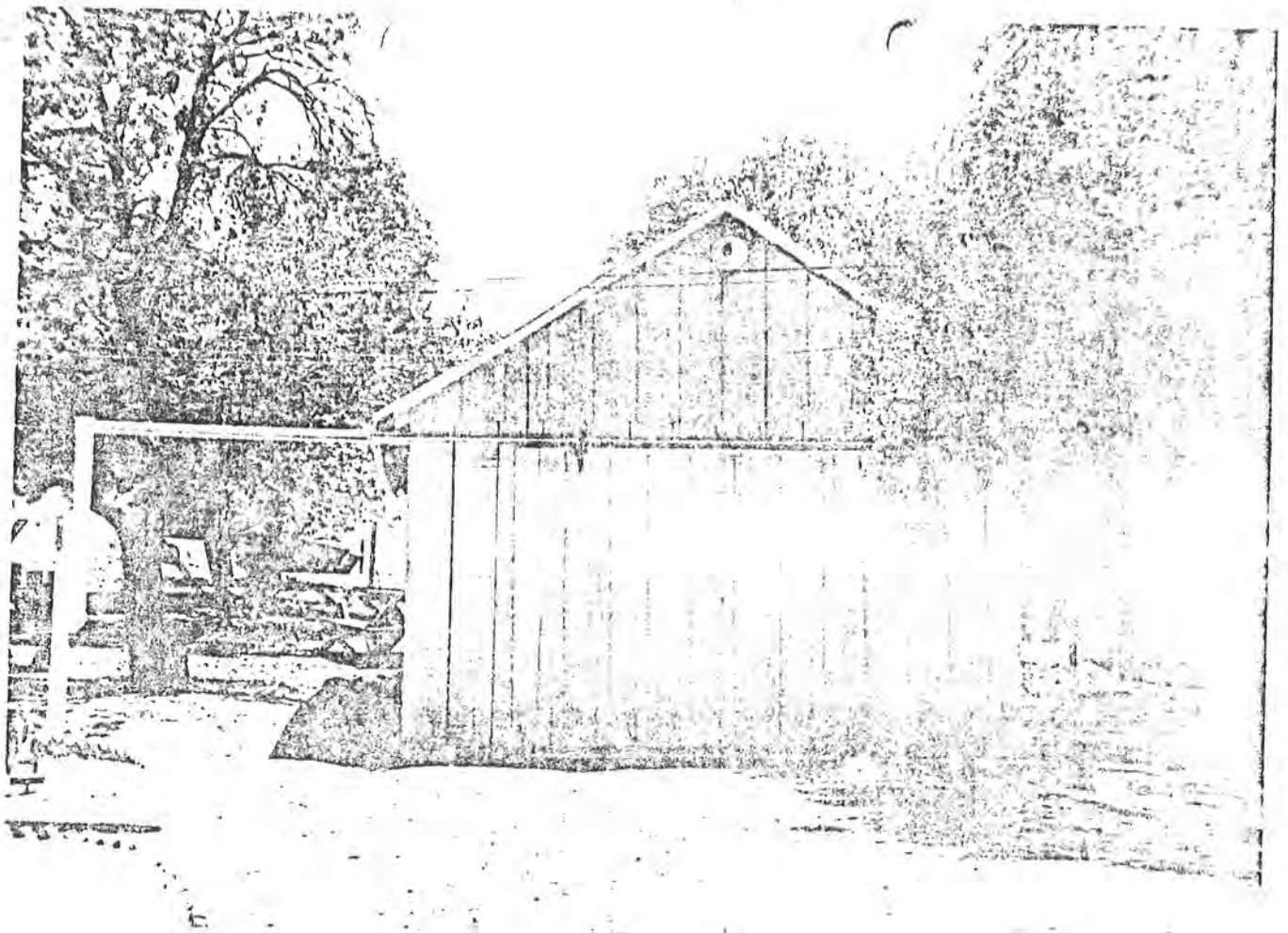


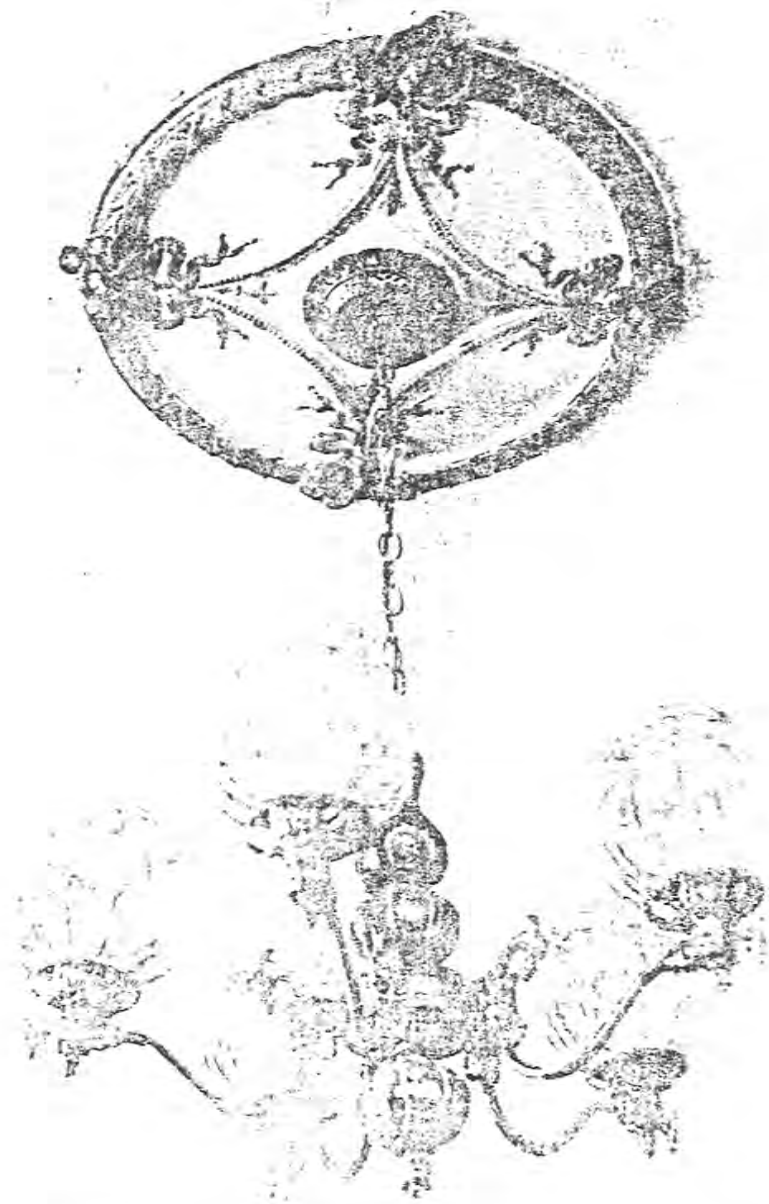
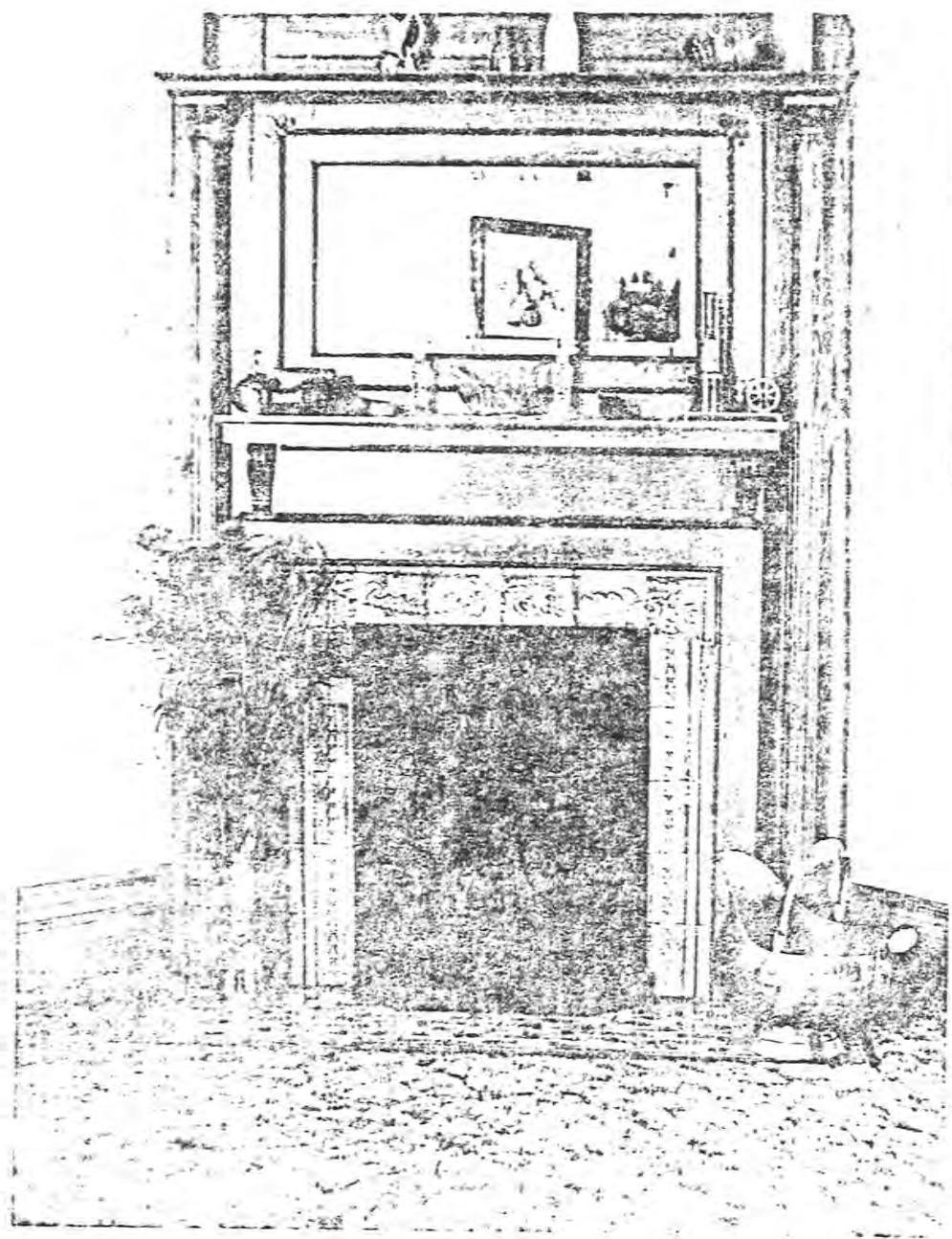


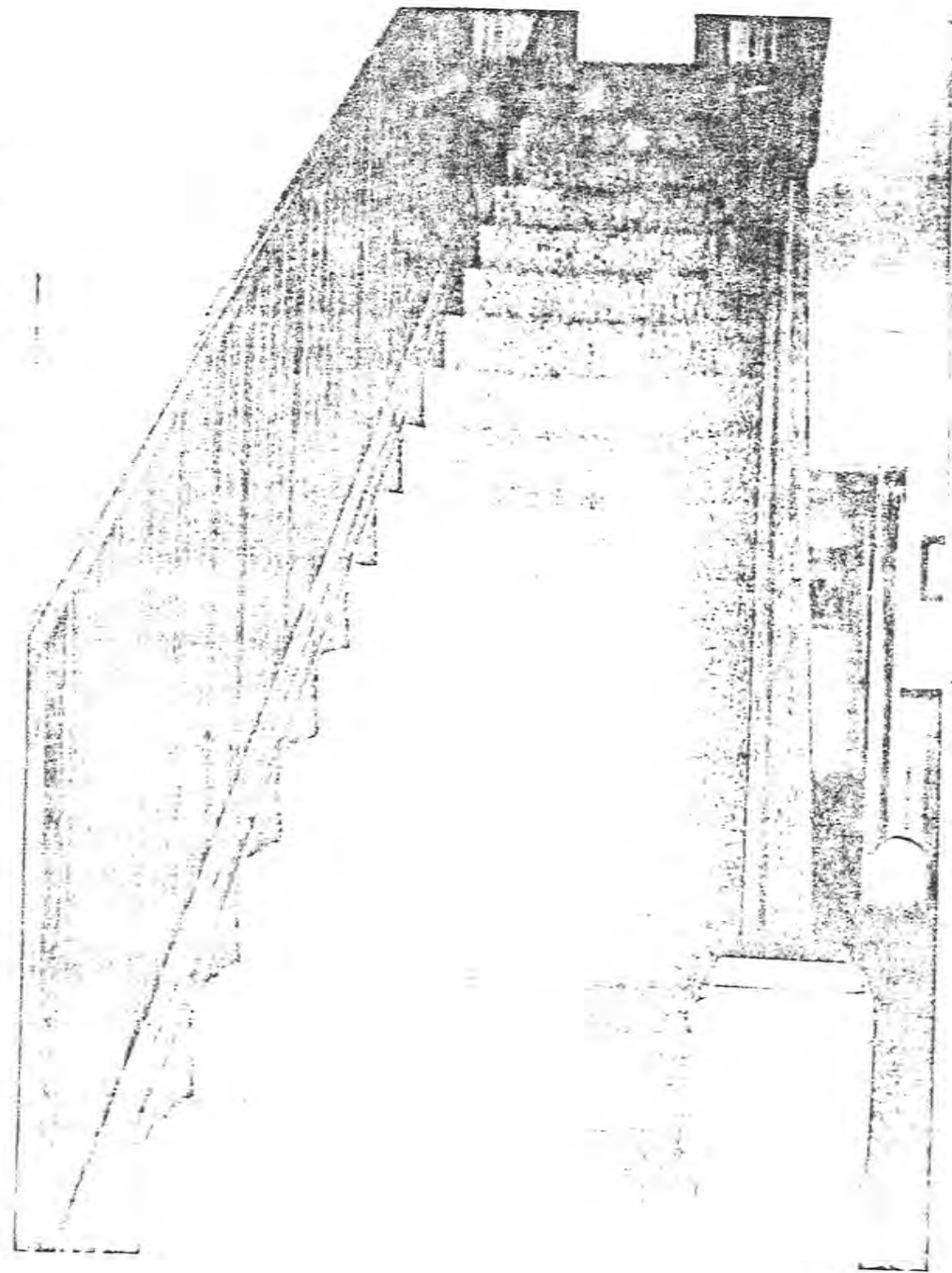
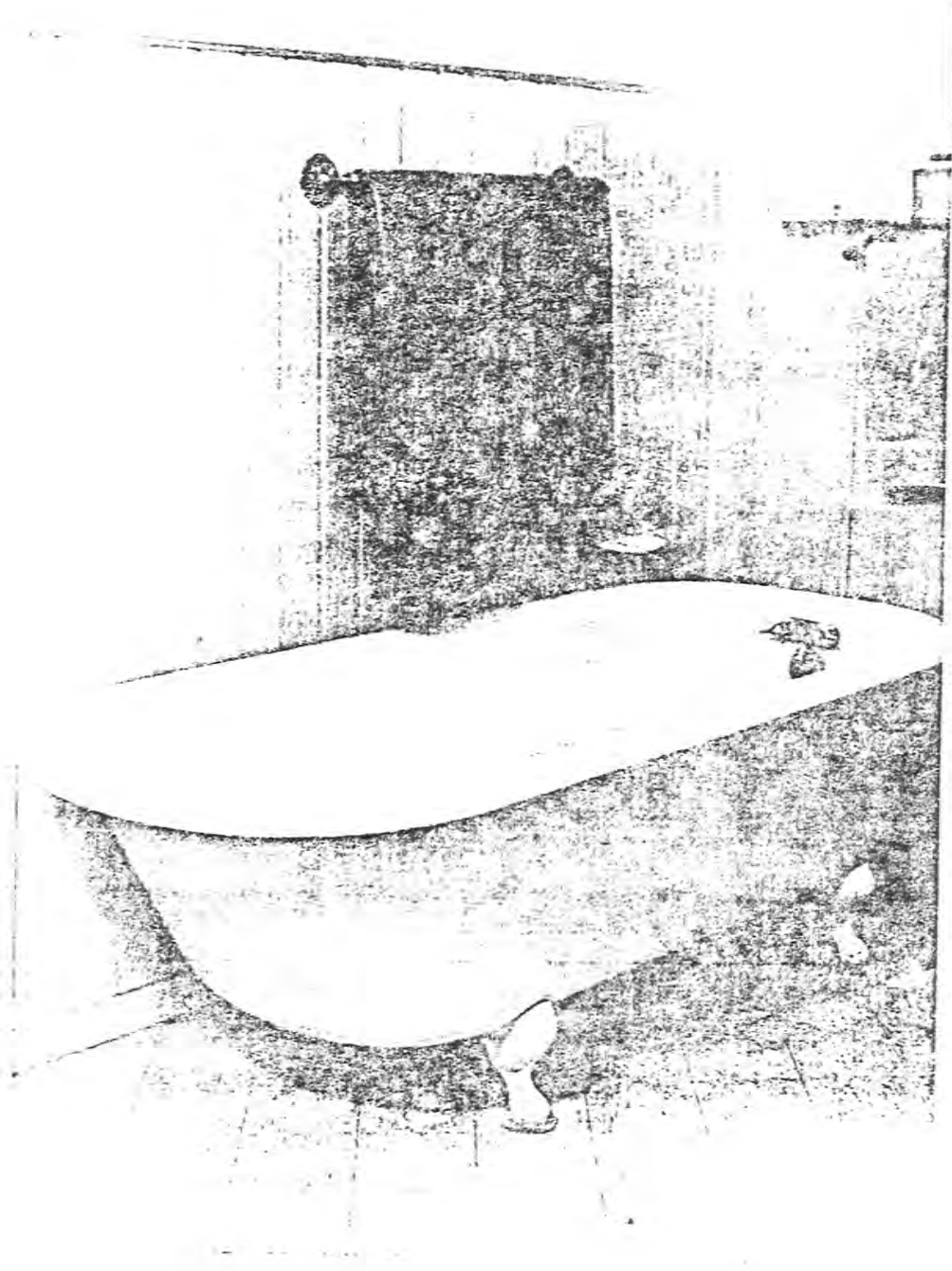






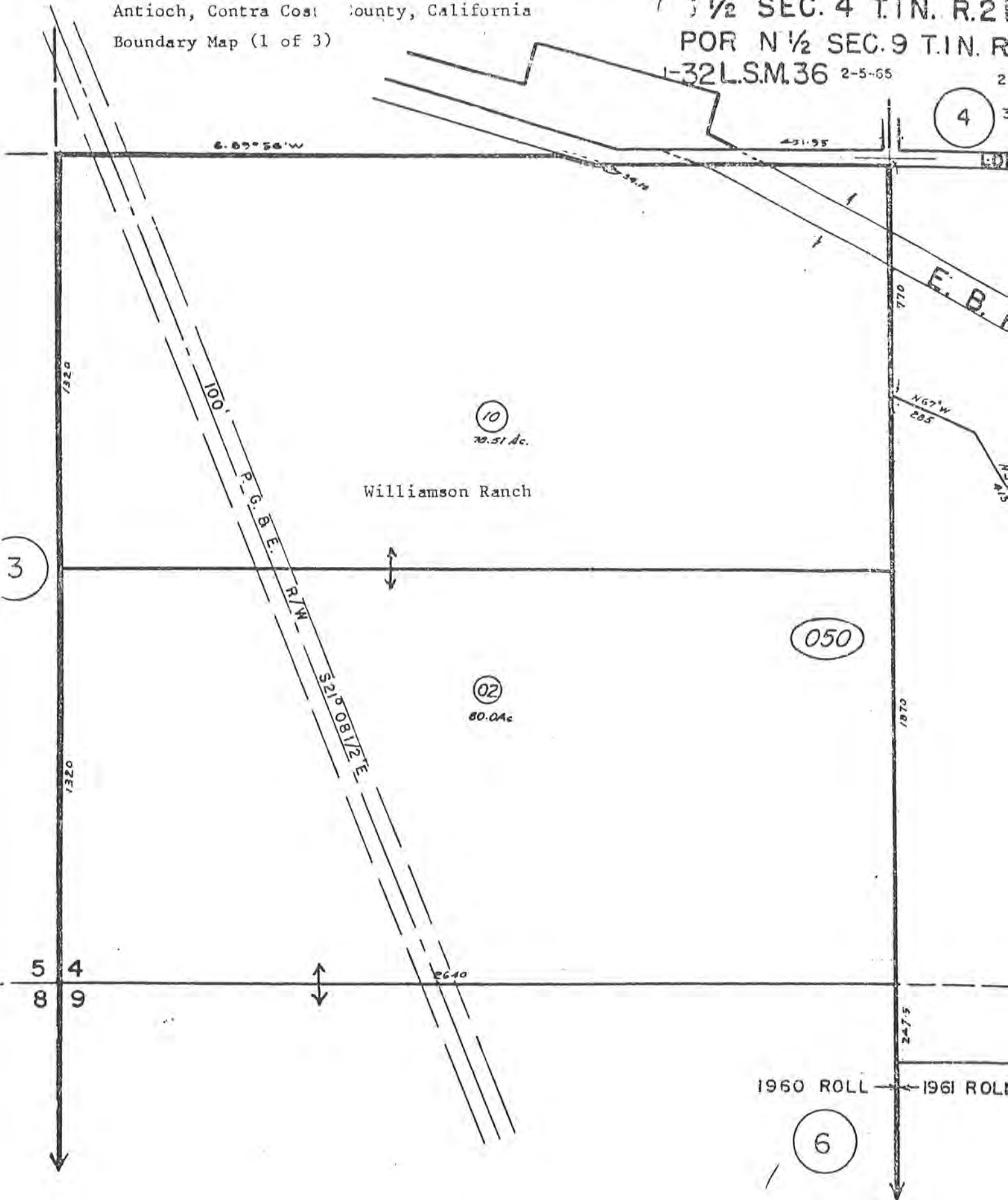




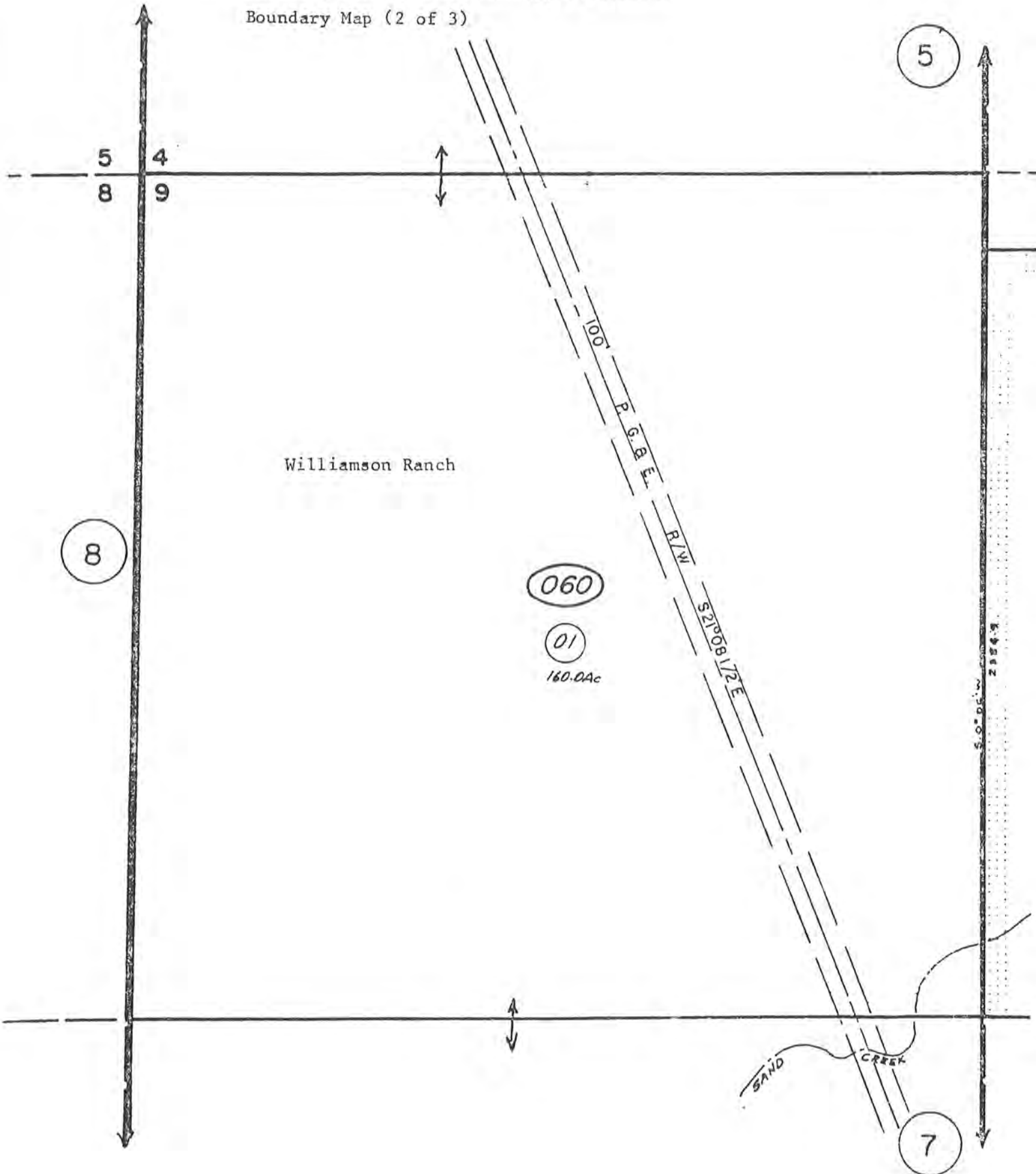


SHANNON RANCH/WILLIAMSON RANCH  
 R.R. 1, Lone Tree Way  
 Antioch, Contra Costa County, California  
 Boundary Map (1 of 3)

1/2 SEC. 4 T.1N. R.2E  
 POR N 1/2 SEC. 9 T.1N. R.2E  
 1-32 L.S.M. 36 2-5-65



SHANNON RANCH/WILLIAMSON RANCH  
R.R. 1, Lone Tree Way  
Antioch, Contra Costa County, California  
Boundary Map (2 of 3)







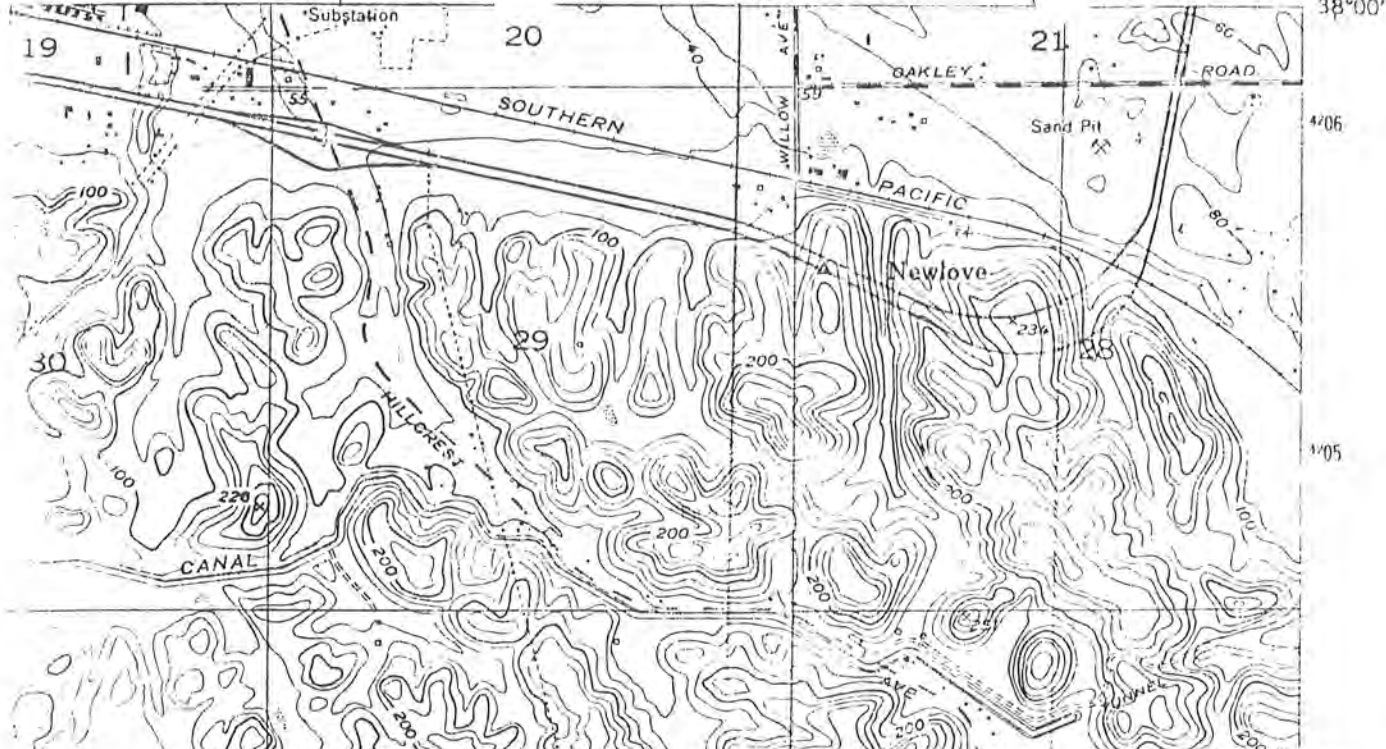
UTM: 58 MI.  
47'30" R. 2 E. 1 630 000 FEET

608

BRIDGE 2 MI

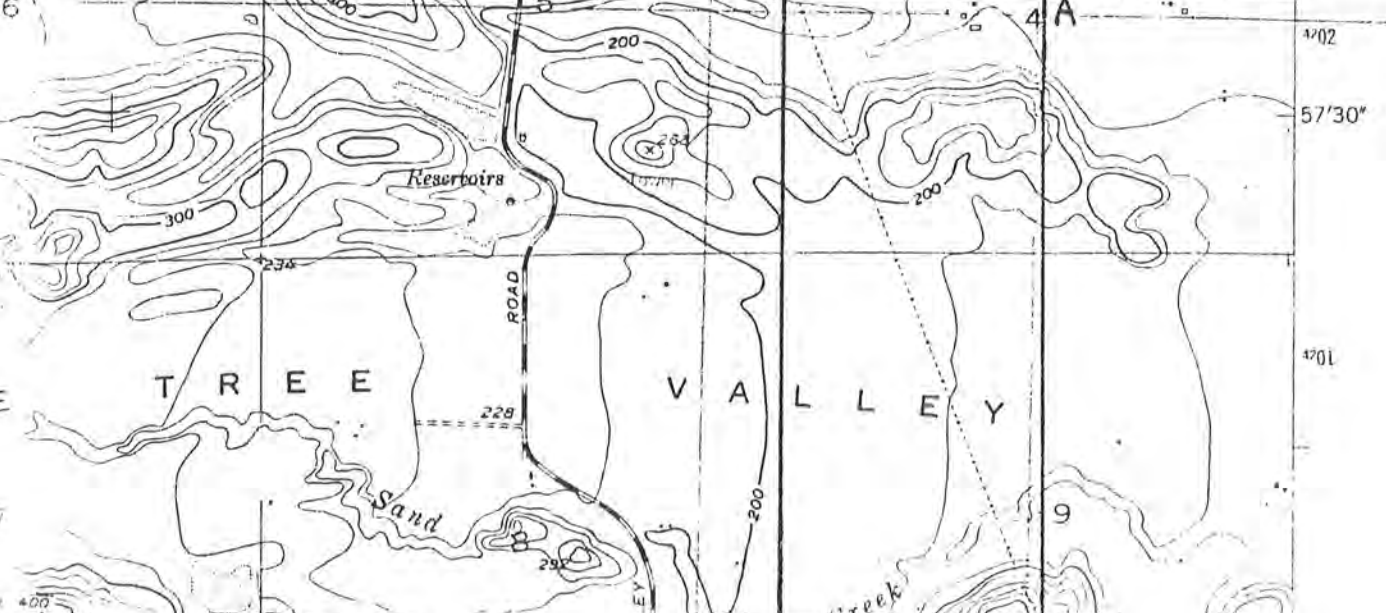
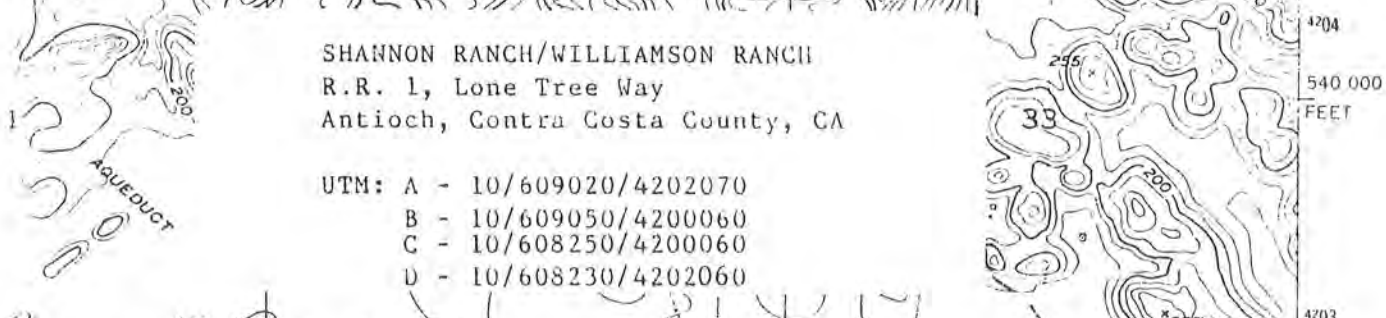
121°45'

38°00'



SHANNON RANCH/WILLIAMSON RANCH  
R.R. 1, Lone Tree Way  
Antioch, Contra Costa County, CA

UTM: A - 10/609020/4202070  
B - 10/609050/4200060  
C - 10/608250/4200060  
D - 10/608230/4202060





1. NAME: Williamson/Shannon Ranch
2. ADDRESS: R.R.1, Lone Tree Way  
Box 1115, Antioch, CA 94509  
Contra Costa County
3. PHOTOGRAPHER: Janet Pape
4. DATE: 11 May 1986
5. LOCATION OF NEGATIVE:  
Janet Pape, 1672 Oxford Street,  
Berkeley, CA 94709
6. DESCRIPTION OF VIEW: Facing south.  
North facade of house showing dormer,  
widow's walk, pediment over front entry,  
octagonal bay and spindlework; palm tree.
7. NUMBER: ~~01/10~~ 3 of 17

RECEIVED 28 APR 1986

HISTORIC ARCHAEOLOGICAL SITE RECORD

D-07-000303

SITE NAME: Williamson/Shannon Homestead

SITE NO: CA-CCO-532H

1. USGS Antioch South, CA (464A) YR: 1953 Photorevised: 1980

2. Landgrant: No

3. TWP IN RANGE 2E NW 1/4 of NE 1/4 of SW 1/4 of -- 1/4 Section 4

4. UTM Coordinates (608760E, 4292999 N) 5. Contour: Hi 138' Low 129'

6. Address Rural Route 1 (On Lone Tree Way, between Deer Valley Rd. & Hillcrest Rd)

7. Site Location Antioch, CA, Contra Costa County. Hiway 4 to Hillcrest exit.

Turn left on to Hillcrest to Lone Tree Way. Turn right and go approx. 500 ft.

Site is south of Lone Tree Way, with fencing bordering on the three remaining sides.

8. Historic Name, if known: Shannon farm/ranch

9. Present Owner(s): Donald A. Williamson, Shirley Williamson (siblings)

Address: Rural Route 1, P.O. Box 1115

Ownership is: Public Private XX

9. Present Use Ranching Original Use Farming/Ranching

10. Site Description Approximate 6-acre 19th century farm complex containing a house, tank house, horse barn, cow barn, "old shop" barn, "grainery", chicken house, bunk house, and a 20th century garage. A cistern with a gabezo type shelter over it, is situated at the SE corner of the east side of the house. 19th & 20th century farm machinery and equipment lay about the complex and inside the barns. One feature, an approx. 4'sq. area where the privy was once situated, is located ap. 40' east of the east house entrance. Livestock pens are situated south and west of the horse barn. Original cabin burned down in 1893 where new house is now situated. Family lived in "grainery" structure during the house reconstruction. The area south of the barns and north of the livestock pens has lumber, coiled wire, tires and other farm appurtenances lying about.

11. Apparent Significance of Site The farm complex has been inhabited since 1869 by a single family. Structures have retained their historical integrity of workmanship design, location, and feeling of a 19th century homestead.

12. Theme: Architecture Arts & Leisure Economic/Industrial X  
Exploration/Settlement Government Military Religion  
Social/Education

S-10413 S-7983

13. Dominant Vegetation Miner's lettuce, wild oats, mustard, almond orchard,  
eucalyptus trees and a cedar, palm, olive & pepper tree. Decorative shrubs  
surround the house and tank house.
14. Nearest Water: Distance 1 mi. Direction due south  
Nature of Water Source Sand Creek which joins Marsh Creek approx. 3 mi. east  
Other sources Contra Loma and Antioch Reservoirs to the southeast
15. Exposure to Prevailing Wind Northwest
16. Erosion None visible
17. Disturbance and/or Modifications None visible
18. Dimensions of Entire Site 270' x 1050'  
Area of Entire Site 6+ acres. Method used to determine extent  
of site and individual features Pacing and tape measure
19. Features and/or Major Elements of Site (Keyed to Map)
- A. Description House: two story with cellar; Italinate design with hip  
roof and bracketts at corners. South one-story section built c1895. North  
section built c1898. Open porch on north and west sides, enclosed porch on  
east side. Brick column foundation. Dimensions 61' x 66'5"
- B. Description Grainery: Stone foundation, overhang on north side.  
Structure floor is elevated 3 ft'. Stove pipe hole in east wall.  
Dimensions 24'2" x 32'8"
- C. Description Tank house . Open wood criss-cross design near roof.  
A windmill was once situated on the west side of the tank house as evidenced  
by early photographs. Dimensions 16' 6" x 16' 6"

D. **Description** Bunk house: Wood structure with window on east side and door on west side. Floor is elevated approx. 2 ft. Used as storage area.

**Dimensions** 12'4" x 12'

**Additional Notes on Features** (See reverse side of sheet)

Fence posts south of "old shop" and running adjacent to the west side of the roadway are circa 1870. Fence c1870, runs E-W on west side of horse barn part of livestock pen. All structures are constructed of wood.

All the barns, chicken house and bunk house have tin roofs; house & tank house have shingle roof.

20. **Artifactual Remains: Ceramics** White ironstone, 5 fragments

**Glass** clear, curved bottle glass, 3 fragments

clear window glass, 2 fragments, brown bottle glass, neck frag.-modern

**Metal** Square nails, harness fragments, two-strand, galvanized plate barbed wire.

**Other** Nine mortars and pestles are located on the west side of the house.

**Bone and/or Shell** None

21. **Estimated Dates of Occupation Based on Artifacts** 1870-1986

22. **Occupation Dates Based on Published Sources, Oral Interviews, etc.**

Homestead deed dated 1869; 1870, 1880, 1900 census. Assessment lists 1874-1881 Book of Deeds 1881-1906. Family documents.

23. **Primary Building Material:** Adobe Wood XX/ Stone all structures Brick

Stucco Other

24. **Is Structure on Original Site:** Moved Unknown

All structures are on original site except for hay barn which was moved onto the property in early 1920's, and the garage which was moved from the north side of the tank house adjacent to the road to the west side of the house.

19. con't

- E. Cow/Buggy Barn: Wood with a ground level and hip line hay doors on west side. Structure used for storage of farm equipment.  
Dimensions: 40' x 35'3"
  
- F. "Old Shop" barn: Wood with door on east side. Used presently for storage; used historically as a machine repair shop.  
Dimensions: 22.5' x 20'5"
  
- G. Hay Barn: Open wood slat construction. Moved from the Fitzpatrick property north of site across Lone Tree Way in early 1920's as stated by Donald Williamson. Used presently to store combine and other farm machinery.  
Dimensions: 45'3" x 31'8"
  
- H. Garage: Built in early 1920's, wood, shingle roof. Dimensions: 14'.5" x 20'.5"
  
- I. Feature: Depressed area approximately 4'x 4' 40ft east of east house entrance.
  
- J. Horse Barn: Wood structure with a door at ground level and hip level on west side. Small window size openings which have been boarded up run the length of the north side of the barn.  
Dimensions: 70'7" x 56'
  
- K. Cistern: Four posted at corners, with gabezo type roof.  
Dimensions: 8'2" x 8'4"
  
- L. Hen house: Wood structure , approximately 4' x 6'

25. Elements or Features related to site but outside site as delimited:

The complex is surrounded by open space. Complex is a portion of a 440 acre farm, 40 acres to the north across Lone Tree Way and 400 acres south of Lone Tree W

26. Current Landmark Status: Existing: None

Recommended: National Register of Historic Places

27. Previous Survey, Excavation, or Reference: None

28. Photographs: Number 13 B/W      Color X Slides     

By Janet Pape & Donald Williamson

29.

Comments: The mortars and pestles located on the west side of the house were discovered throughout the years on the 440 acres, primarily while plowing, as related to me by Donald Williamson.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Recorded by: Janet L. Pape

Date March 29, 1986



**LEGEND**

- A = House
- B = "Grainery"
- C = Tank House
- D = Bunk House
- F = "Old Shop"
- G = Hay Barn
- H = Garage
- I = Privy Feature
- J = Horse Barn
- K = Cistern
- L = Hen House
- M = House Trailer
- [Square with X] = Farm Machinery
- [Cross] = historic fence/ fence posts
- [Circle with X] = footed bathtub
- [Coiled line] = coiled wire
- [Wavy line] = lumber
- [Dashed line] = fencing
- [Circle with dot] = almond orchard
- [Circle with dot] = olive tree
- [Circle with dot] = cedar tree
- [Circle with dot] = pepper tree
- [Circle with dot] = palm tree
- [Circle with dot] = eucalyptus tree
- [Circle with dot] = wood slat fence
- [Star] = windmill site
- [Triangle] = datum
- g = clear glass frag.
- i = ironstone frag.
- bg = brown glass frag.
- [Double line] = gravel road
- [Square with dot] = square nail
- [Circle with dot] = metal harness frag.
- [Line with X] = barbed wire

**DISTANCES**

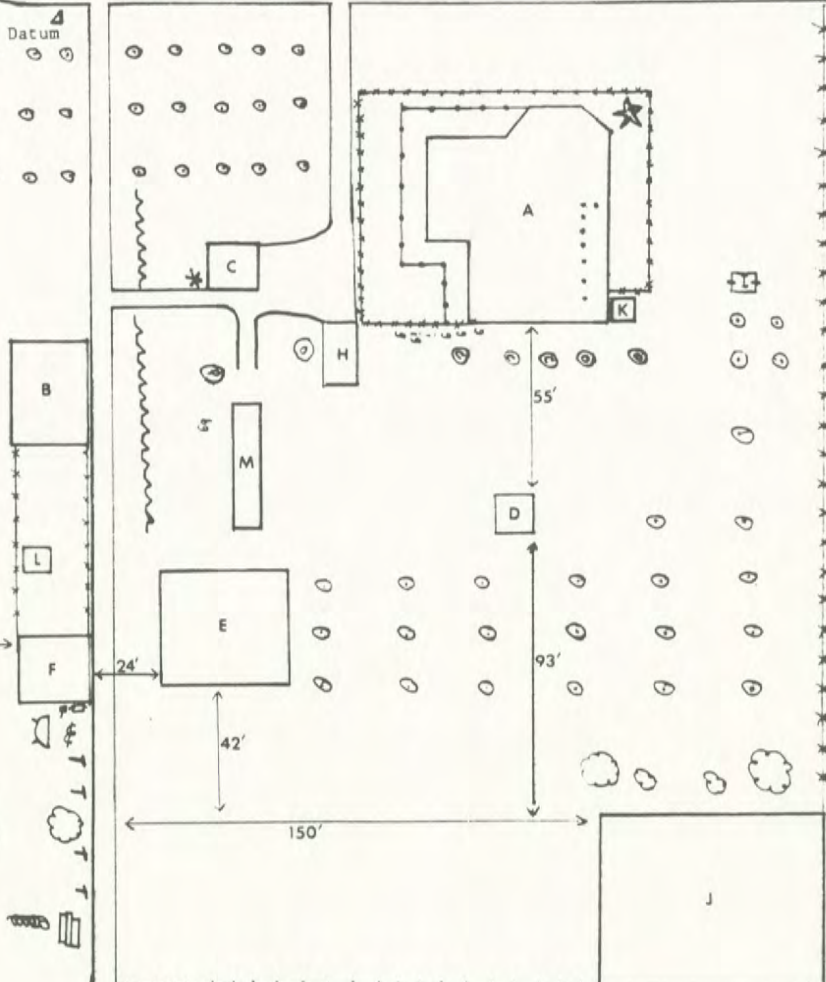
- ▲ Datum (telephone pole) to:
- Southern boundary 1,050 ft.
- Western boundary 30 ft.
- Eastern boundary 240 ft.
- northern boundary of livestock area 310 ft.
- tank house 80 ft.

SITE BOUNDARY LINE

WILLIAMSON/SHANNON  
HOMESTEAD  
CA-CCO-532H

NOT TO SCALE

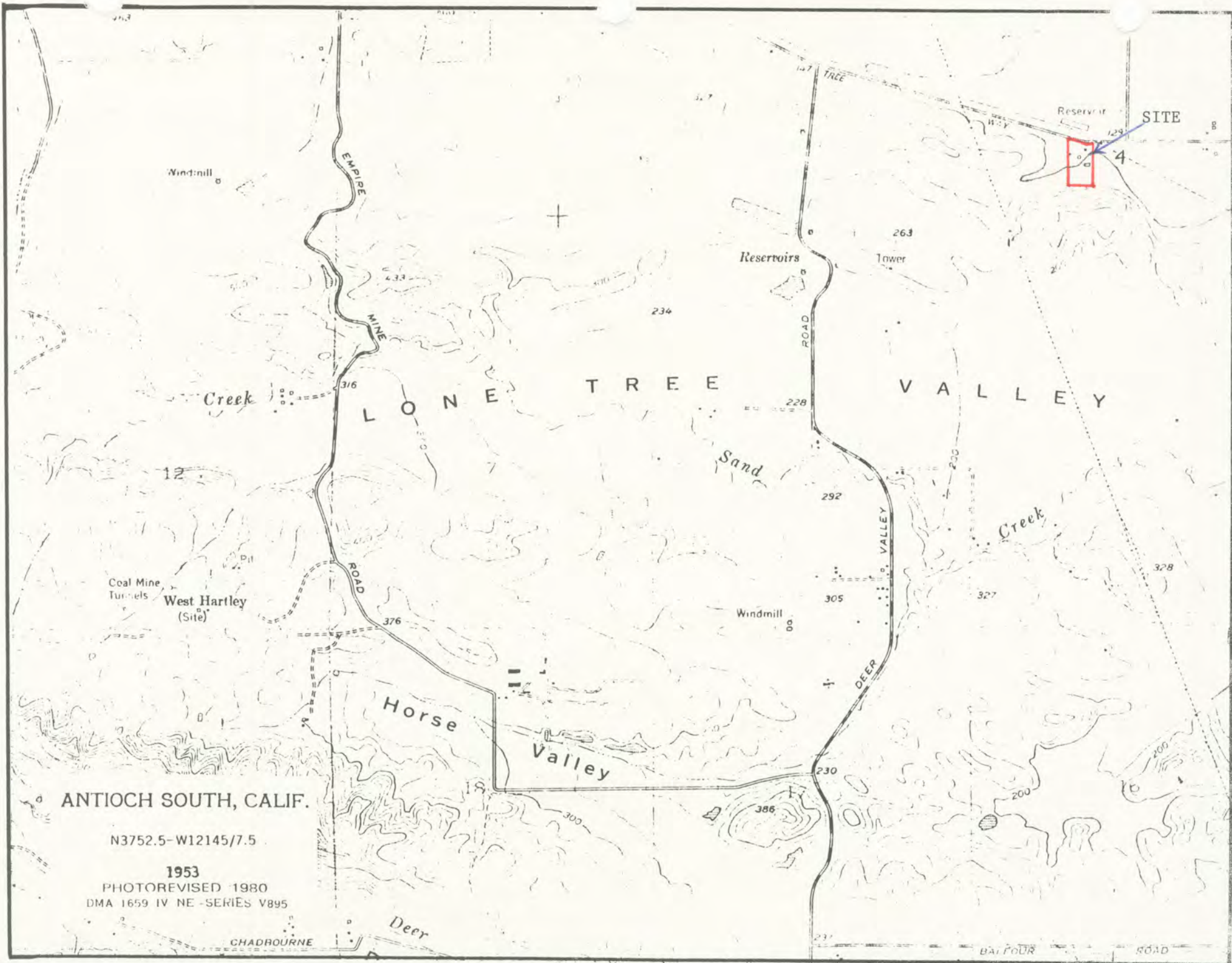
LONE TREE WAY



LIVESTOCK AREA

740'

March 1986  
J.L. Pape



Looking east

Barn & outbuildings on Don Williamson

3/23/86



P-07-000303 / CA-CCO-532/H  
PHOTOS BY JANET PAPE (MARCH 1986)

Looking north

Outbuildings on Don Williamson estate

3/23/86

CA-000-532H

FEB  
1986



Looking east

CA-CCO-532H

Home of Don Williamson  
Antioch, CA  
2/23/86

1986

FEB  
1986



P-07-000303 / CA-CCO-532/H  
PHOTOS BY JANET PAPE (MARCH 1986)

Looking NW

CA-CCO-532H

Outbuilding - "Grainery"  
Don Williamson estate

FEB  
1986



CA-000-532H

North side of house  
Don Williamson home  
Antioch, CA

FEB  
1986

2/23/86



P-07-000303 / CA-CCO-532/H  
PHOTOS BY JANET PAPE (MARCH 1986)

West side of house  
Don Williamson at his home, Antioch, CA  
2/23/86

CA-000-532H

FEB  
1986



P-07-000303



P-07-000303



**CULTURAL RESOURCES TECHNICAL REPORT FOR 5200 LONE TREE WAY**

Appendix C DPR 523 Series Forms  
August 27, 2021

**Appendix C DPR-523 SERIES FORMS**



PRIMARY RECORD

Primary #  
HRI #  
Trinomial  
NRHP Status Code 6Z

Other Listings  
Review Code

Reviewer

Date

Page 1 of 17 \*Resource Name or #: (Assigned by recorder) 5200 Lone Tree Way  
P1. Other Identifier: \_\_\_\_\_

- \*P2. Location:  Not for Publication  Unrestricted
  - \*a. County Contra Costa County and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
  - \*b. USGS 7.5' Quad Antioch South Date 2018 T 1N; R 2E; SE¼ of NW¼ of Sec 04; Mount Diablo B.M.
  - c. Address 5200 Lone Tree Way City Antioch Zip 93526
  - d. UTM: (Give more than one for large and/or linear resources) Zone   ,    mE/    mN
  - e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)  
Assessor Parcel Number (APN): 056-270-059

\*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

See District Record for detailed description.

\*P3b. Resource Attributes: (List attributes and codes) HP33. Farm/Ranch

\*P4. Resources Present:  Building  Structure  Object  Site  District  Element of District  Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects.)



P5b. Description of Photo: (view, date, accession #) View of 5200 Lone Tree Way looking SE, 7/19/2021

\*P6. Date Constructed/Age and Source:  Historic  Prehistoric  Both

1926: Contra County Assessor's Office

\*P7. Owner and Address: Jorge F. Vargas  
4300 Delta Fair Blvd  
Antioch, CA 94509

\*P8. Recorded by: (Name, affiliation, and address)  
Emily Rinaldi and Rebecca Riggs  
Stantec Consulting Services, Inc.  
801 S. Figueroa St, Suite 300  
Los Angeles, CA 90017

\*P9. Date Recorded: 7/14/2021

\*P10. Survey Type: (Describe)  
Intensive Survey

\*P11. Report Citation: (Cite survey report and other sources, or enter "none.")  
Emily Rinaldi, Stantec Consulting Services Inc., "Historic Resource Evaluation Report for the 5200 Lone Tree Way United Pacific Gas Station Project," August 2021

- \*Attachments:  NONE  Location Map  Continuation Sheet  Building, Structure, and Object Record
- Archaeological Record  District Record  Linear Feature Record  Milling Station Record  Rock Art Record
- Artifact Record  Photograph Record  Other (List): \_\_\_\_\_

**DISTRICT RECORD**

Page 2 of 17

\*NRHP Status Code 6Z

\*Resource Name or # (Assigned by recorder)

D1. Historic Name: Heidron Farm

D2. Common Name: None

\*D3. Detailed Description (Discuss overall coherence of the district, its setting, visual characteristics, and minor features. List all elements of district.):

5200 Lone Tree Way is a former agricultural property located in the City of Antioch. The district includes one legal parcel approximately two acres in size that is associated with the assessor parcel number (APN) 056-270-059. It is bordered by Lone Tree Way on the north, Vista Grande Drive to the east, two single-family residential properties located at 5002–5003 Hollowglen to the south, and three single-family residential properties located at 5115–5123 Plumwood Way to the west. Lone Tree Way is a major arterial street providing regional access throughout southeast Antioch. It is six lanes wide with a center median and traffic traveling in an east-west direction. Vista Grande Drive is two lanes wide with a center median and traffic traveling in a north-south direction. The topography of the Project site and immediate vicinity is relatively flat. Surrounding land uses include commercial development such as restaurants, retail shops, and offices as well as residential development such as single-family and multi-family residences. Adjacent buildings are generally low scale, ranging from one to two stories in height.

The property is accessed via a main driveway on Lone Tree Way. The driveway is paved with asphalt and extends south from the north property boundary to a gravel paved surface parking area at the south end of the parcel. A portion of the rear surface parking area at the southwest corner of the parcel is surrounded by a chain-link fence. A concrete block curb borders the north boundary to the east and west of the driveway. A second driveway paved with concrete is located near the south end of the parcel on Vista Grande Drive. A half-height chain link fence with a sliding gate at the secondary driveway is located along the east property boundary. Landscaping primarily consists of mature trees, shrubs, and a grassy lawn.

There are six buildings located on the parcel, a single-family residence, two barns, two sheds, and a tank house. The residence is setback from the north property boundary to the west of the driveway, while the tank house is slightly setback from the north boundary to the east of the driveway. One barn, referred to for the purposes of this evaluation as the north barn, is located immediately to the southeast of the tank house. It has been previously converted into a garage. The second barn, referred to here as the south barn, is located further to the southwest near the east property boundary. Two sheds are also located on the property to the south of the north barn. For additional descriptive information regarding these buildings, please see the attached DPR 523 A (Primary Record) forms. Primary Record forms were prepared for the six buildings within the district boundary.

Based upon a review of aerial photographs, the property appears to have changed little between 1939 and 1982. Visible alterations to the property primarily included changes to the vegetation between the 1939, 1958, and 1965 aerials, such as the addition of an orchard to the east of the residence along Lone Tree Way and the removal and replacement of trees. The exact date of construction of the sheds is unknown, although they appear on the 1965 aerial. An aerial from 1993 shows that the orchard was been removed as well as many of the mature trees throughout the property. By 2002, Lone Tree Way was widened and the surrounding subdivision, Meadow Springs Village, was constructed.

There are only four building permits on file with the City of Antioch. One permit was for erecting a chain link fence in 2000. The remainder were for connecting the property to city utilities between 1996–1998. Numerous alterations to the individual buildings and structures on the property were noted in the field. The residence appears to be stripped entirely of any decorative features or ornament that may have been part of its original design. Its original cladding has been removed and replaced with stucco, the roofing material replaced, and all of its door and window sashes replaced. A former window opening at the center of the street-facing (north) elevation has been resized into a paired door opening. The entrance to the north barn has been reconfigured into three garage door openings. The original cladding and roofing materials also

appear to be replaced. The roof material at the south barn has been replaced. Finally, the tank house appears to be missing its windmill, which is typically used in the operation of tank houses.<sup>1</sup>

### **History of East Contra Costa County, 1850–1920**

The Gold Rush incited a mass migration of over 300,000 people to California between 1848 and 1854, quickly propelling the territory into statehood and transforming almost every aspect of its earlier character.<sup>2</sup> New immigrants soon settled throughout the state, including an influx European and European-Americans into present-day east Contra Costa County. Following California statehood, the U.S. Government began issuing federal land patents for the area. Records indicate that the U.S. Government issued over 40 patents for land surrounding the Project site between the late 1860s and 1870s.<sup>3</sup>

Many of the new settlers were farmers, and as a result, early growth in East Contra Costa County was in part fueled by agriculture dominated by crops such as wheat, barley, and hay. Contra Costa County and Lone Tree Valley, in particular, soon became a leading producer of barley, used primarily for animal feed as well as for making larger beer and ale.<sup>4</sup> By 1879, 12% of the state's barley was grown in the county. Beginning in 1859, the discovery of coal in the Black Diamond mine area south of present-day Pittsburg also fueled early growth.<sup>5</sup> Black Diamond soon become California's largest mining operation from which nearly four million tons of coal was removed.

Several small communities and towns were formed in East Contra Costa County during this period. One of the earliest was Antioch, founded in 1849 as Smith's Landing by twin brothers, Rev. William Wiggins Smith and Rev. Joseph Horton Smith.<sup>6</sup> The town was promptly renamed Antioch in 1851 after the biblical city of Antioch. The early townsite developed around a pier on the banks of the San Joaquin River near what was then known as Front Street and Main Street.<sup>7</sup> Besides Antioch, other towns in East Contra Costa County founded in the mid-19<sup>th</sup> century include those associated with the Black Diamond mines, such as Pittsburg, Nortonville, Somersville, Stewartville, West Hartley, and Judsonville.<sup>8</sup>

The completion of the San Pablo & Tulare line of the Central Pacific Railroad in 1878 and the Stockton line of the Santa Fe Railroad in 1898, brought further development to East Contra Costa County.<sup>9</sup> Communities, such as Brentwood, Byron, Knightsen, and Oakley, formed around stops along the railroads. Early businesses in these towns included mercantile shops, blacksmith shops, barber shops, saloons, and hotels. The arrival of the railroads also provided farmers with easier access to transportation and expanded the number of markets they could ship their crops to. This led to a diversification of the types of crops cultivated in the county to include fruit and nuts.

<sup>1</sup> Meg McConahey, "Rural Relics," *The Press Democrat*, November 3, 2011, accessed July 12, 2021, <https://www.pressdemocrat.com/article/news/rural-relics/>.

<sup>2</sup> "California Gold Rush," Britannica, accessed July 15, 2021, <https://www.britannica.com/topic/California-Gold-Rush>.

<sup>3</sup> Bureau of Land Management, "Land Patent Search," *General Land Office Record*, accessed July 15, 2021, <https://gloreCORDS.blm.gov/default.aspx>.

<sup>4</sup> Janet L. Pape, "Shannon Ranch/Williamson Ranch," National Register of Historic Places Nomination Form, Antioch, California, January 29, 1987, sect. 8, pg. 2.

<sup>5</sup> "Black Diamond Mines Regional Preserve," East Bay Regional Park District, accessed July 15, 2021, [https://www.ebparks.org/parks/black\\_diamond/default.htm#history](https://www.ebparks.org/parks/black_diamond/default.htm#history).

<sup>6</sup> "Early Antioch," The Antioch Historical Museum, accessed July 15, 2021, <https://www.antiochhistoricalmuseum.org/early-antioch>.

<sup>7</sup> Sanborn Map Company, *Antioch*, 1884, Sheet 1.

<sup>8</sup> Adrian Praetzellis, "Black Diamond Mines," National Register of Historic Places Nomination Form, Antioch, California, Anthropological Studies Center, Sonoma State University, May 2, 1991, sect. 8, pg. 11.

<sup>9</sup> "Knightsen," East Contra Costa County Historical Society, accessed July 15, 2021, <https://eastcontracostahistory.org/our-communities/knightsen/>.

\*Resource Name or # (Assigned by recorder)

D1. Historic Name: Heidron Farm

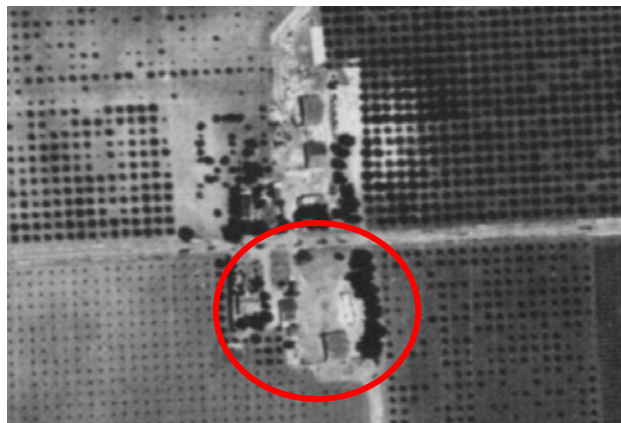
D2. Common Name: None

The last operating coal mines closed in East Contra Costa County in the 1900s; however, the local economy continued to diversify throughout the early 20<sup>th</sup> century.<sup>10</sup> Commercial sand mining soon replaced coal extraction beginning around 1910. Dairy grew to become a dominate industry in the area with Knightson becoming the largest depot for shipping milk by the 1920s.<sup>11</sup> Finally, agricultural practices in the area changes with the establishment of irrigation districts that allowed for the cultivation of more water intensive crops such as almonds and grapes.

The farmers in the Lone Tree Valley had established a formal farming community and irrigation district by 1925.<sup>12</sup> The earliest aerial photograph of the area from 1939 shows scattered farms surrounded by uncultivated land. The parcels appear to have been formed by the United States rectangular land survey. Residences and farm buildings are typically clustered together near roadways and feature an allée or curved entry drive bordered by trees or orchards. These clusters are then surrounded by cultivated fields. Historic aerials illustrate that more of the undeveloped land was under cultivation by the mid-20<sup>th</sup> century; however, by the 1980s, some of the agricultural properties had been redeveloped with new residential, commercial, or industrial buildings. By the 1990s and 2000s, most of the agricultural properties in the area had been redeveloped, the majority with new suburban subdivisions.

### History of Property

The date of construction for the buildings on the Project site is noted by the Contra Costa County Assessor's Office as 1926. The earliest available aerial photograph for the Project site is from 1939. It shows the residence and two barns in their current locations on the property and what appears to be the tankhouse, although it is not clearly depicted in the photograph (see **Photograph 1**). The area to the south of the Project site between present-day Hillcrest Avenue and Heidorn Ranch Road were under cultivation by that date. Across Lone Tree Way, there are what appear to be a residence and two barns that are no longer extant. It is not known whether these buildings on the north side of Lone Tree Way were historically associated with the Project site. The surrounding area on the north side of Lone Tree Way between present-day Hillcrest Avenue and Heidorn Ranch Road was also under cultivation by that date.



**Photograph 1:** 1939 aerial photograph with Project site circled in red (UCSB)

Building permits and ownership information from the date of construction are no longer on file with either the

<sup>10</sup> Praetzellis, sect. 8, pg. 1.

<sup>11</sup> "Knightson," East Contra Costa County Historical Society.

<sup>12</sup> "Naval Day Celebration," *Mill Valley Record*, October 17, 1925.

\*Resource Name or # (Assigned by recorder)

D1. Historic Name: Heidron Farm

D2. Common Name: None

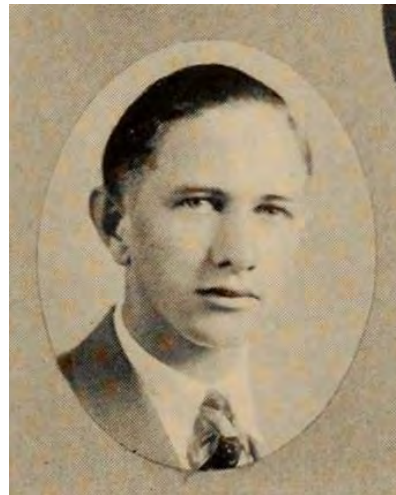
City of Antioch or Contra Costa County; however, research indicates that the existing buildings on the Project site were likely constructed for owner Frederick H. Heidorn. Heidorn was the father of Frederick H. Heidron, Jr., who is documented in building permit records as owning the property in the 1990s. Census data dating from the late 1920s through the 1950s, newspaper articles, and other publicly available records such as draft cards indicate that the family resided on a farm located on Lone Tree Way. The current address of 5200 Lone Tree Way is not listed on any of these documents, which is likely because the property was not historically assigned a number address. Heidorn, Jr.'s obituary notes that he grew up on his father's farm on Lone Tree Way and later inherited it from his father when he retired.<sup>13</sup>

Frederick Heidorn, Sr. was born in East Contra Costa County in 1872 (see **Photograph 2**). He married Mary Metten Heidorn (1882–1970) and had three children Frederick, Marie, and Ralph.<sup>14</sup> He is listed in census and voter registration records as a farmer and is noted in several newspaper articles from the 1920s for growing barley.<sup>15</sup> He is also noted as a trustee of the Lone Tree School District. Frederick Heidorn, Sr. passed away in 1954.<sup>16</sup>

Frederick Heidorn, Sr.'s father, Henry Heidorn, Sr., was an immigrant from Hanover, Germany who arrived in the United States in 1868, and later received a land patent in 1874 for land in East Contra Costa County located at the present-day interchange of State Route (SR) 160 and SR 4.<sup>17</sup> He was married to Charlotte Heidorn and had four children, Fred, Louisa, Kattie, and Minnie.<sup>18</sup> Henry Heidorn, Sr. was likely related to Christian Heidorn, who was another immigrant from Hanover, Germany who settled in East Contra Costa County around the same time. According to the 1880 census, Henry Heidorn, Sr. was a farmer who owned a 200-acre farm with 100 acres of wheat under cultivation as well as 3 dairy cows, 10 horses, and 100 chickens.<sup>19</sup>



**Photograph 2:** Frederick Heidorn, Sr., undated  
(Ancestry.com)



**Photograph 3:** Frederick Heidorn, Jr., 1928  
(Ancestry.com)

<sup>13</sup> "Frederick Henry Heidorn, Jr.," *Contra Costa Times*, February 28, 2007.

<sup>14</sup> "Diablo Valley Boy Dies after Operation," *Oakland Tribune*, January 5, 1926.

<sup>15</sup> "Mrs. Laugenour to Be Bridge Club Hostess," *Woodland Daily Democrat*, January 18, 1929.

<sup>16</sup> "Fred H. Heidorn, Sr." *Oakland Tribune*, March 27, 1954.

<sup>17</sup> Bureau of Land Management, "Land Patent Search," *General Land Office Record* entry for Henry Heidorn, Sr., Contra Costa County, CA, no. 818.

<sup>18</sup> United States Census Bureau, 1880, Township Five, Contra Costa County, California, 23.

<sup>19</sup> U.S. Census, 1880.

\*Resource Name or # (Assigned by recorder)

D1. Historic Name: Heidron Farm

D2. Common Name: None

Frederick Heidorn, Sr.'s son, Frederick Heidorn, Jr., was born in 1910 on the family farm (see **Photograph 3**). He attended Lone Tree School and Liberty High School, graduating in 1928. Upon graduation, he joined his father working their family farm and grew apricots, grapes, grain, walnuts, and almonds among other crops. He later married Doris Pfeiffer (1912–1990) in 1934 and had three children, Jayne, Susan, and Carol.<sup>20</sup> Frederick Heidorn, Jr. was a member of 4-H, Contra Costa Farm Bureau, Delta Dance, Antioch Senior Citizens, Antioch Historical Society and East Contra Costa Historical Society. Like his father, he was also a trustee of the Lone Tree School District. Frederick Heidorn, Jr. passed away in 2007.

It is not known how long the Heidorn family owned the property prior to the construction of the existing buildings in 1926. As noted above, Henry Heidorn, Sr. received a land patent in 1874 for a property located farther north near the present-day SR 160 and SR 4 interchange. Daniel A. Lewis appears to have received a land patent that included the Project site in 1871. Because primary source documents do not use number addresses and the City nor County have any deed information related to the property on record, it is difficult to determine when the Heidorn family purchased the property on Lone Tree Way. The 1920 census notes that the Heidorn family lived at a farm on Bretwood Road, which appears to have been a former name for present-day Lone Tree Way.<sup>21</sup> Therefore, it is possible that the family's association with the property predates 1926.

Aerial photographs show that the property changed little between 1939 and 1982 (see **Photograph 4** and **Photograph 5**). Visible alterations to the property primarily included changes to the vegetation, such as the addition of an orchard to the east of the residence along Lone Tree Way and the removal and replacement of trees. An aerial from 1993 shows that the orchard had been removed as well as many of the mature trees throughout the property. By 2002, Lone Tree Way had been widened and the surrounding subdivision, Meadow Springs Village, had been constructed.

It is likely that the Heidorn family may have owned all or the majority of the land that today comprises the Meadow Springs Village subdivision. This subdivision extends south from Lone Tree Way to Prewett Ranch Drive between Hillcrest Avenue and Heidorn Ranch Road. Heidorn Ranch Road and Heidorn Park were probably named after the family when Meadow Springs was subdivided sometime in the late 1990s and early 2000s. Because the subdivision immediately surrounds the Project site to the west and south, the family likely sold this land, while retaining ownership of the part of the property where their residence was located.

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<sup>20</sup> "Frederick Henry Heidorn, Jr."

<sup>21</sup> United States Census Bureau, 1920, Township Eight, Contra Costa County, California, 6B.

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\*NRHP Status Code 6Z

\*Resource Name or # (Assigned by recorder)

D1. Historic Name: Heidron Farm

D2. Common Name: None



**Photograph 4:** 1958 aerial photograph with Project site circled in red (UCSB)



**Photograph 5:** 1965 aerial photograph with Project site circled in red (UCSB)

\*D4. Boundary Description (Describe limits of district and attach map showing boundary and district elements.):

The boundary of the property is the full extent of the Contra Costa County Assessor Parcel No. 056-270-059.

\*D5. Boundary Justification:

The boundary is the parcel on which the buildings and features associated with the Heidorn family were constructed and have been historically associated.

D6. Significance: Theme Early History of East Contra Costa County Area Antioch Period of Significance N/A  
Applicable Criteria None (Discuss district's importance in terms of its historical context as defined by theme, period of significance, and geographic scope. Also address the integrity of the district as a whole.)

5200 Lone Tree Way was evaluated for National Register of Historic Places (NRHP) and California Register of Historical Resources (CRHR) under the established federal and state criteria. Because the six buildings lack individual distinction and are united by their history and physical development, they were evaluated as part of a potential historic district per the guidance outlined in "National Register Bulletin: Guidelines for Evaluating and Documenting Rural Historic Landscapes," which notes that properties "containing a number of buildings, sites, and structures—such as a ranch or farming community—are classified as historic districts."<sup>22</sup>

This evaluation finds that 5200 Lone Tree Way does not meet the criteria for listing in the NRHP or CRHR as a historic district nor do the individual buildings appear eligible for listing. The property therefore does not appear to be a historical resource for the purposes of the California Environmental Quality Act (CEQA) pursuant to Title 14 California Code of Regulations (CCR) §15064.5.

<sup>22</sup> McClelland et. all, "National Register Bulletin: Guidelines for Evaluation and Documenting Rural Historic Landscapes," U.S. Department of the Interior, National Park Service, Cultural Resources, 1989, revised 1999, 2.

### **National Register of Historic Places**

#### *Criterion A*

To be eligible under NRHP Criterion A, a property must have a direct association with events that have made a significant contribution to the broad patterns of our history. Within "Guidelines for Evaluating and Documenting Rural Historic Landscapes," the National Park Service (NPS) outlines additional guidance specific to applying Criterion A to rural properties. The bulletin states that a property "must have served or resulted from an important event, activity or theme in agricultural development as recognized by the historic contexts for the area."<sup>23</sup> The property "must have had a direct involvement in the significant events or activities by contributing to the area's economy, productivity, or identity as an agricultural community."<sup>24</sup> Finally, the property "must cogently reflect the period of time in which the important events took place" through its historic landscape characteristics.<sup>25</sup> The most applicable context for evaluating the property under NRHP Criterion A is the Early History of East Contra Costa County.

5200 Lone Tree Way was operated as a farm by the Heidorn family beginning in the early 20<sup>th</sup> century until 2002 when Frederick H. Heidorn, Jr. sold most of the property, retaining only the residence and ancillary farm buildings located on the parcel associated with APN No. 056-270-059. Frederick H. Heidorn, Jr.'s grandfather and father, Henry Heidorn, Sr. and Frederick H. Heidorn, Sr., were early farmers who settled in east Contra Costa County in the 1870s. They are noted in census records and newspaper articles as cultivating wheat and barley, both important crops that contributed to the area's early agricultural development in the late 19<sup>th</sup> and early 20<sup>th</sup> centuries. By the early 1920s, wheat and barley were no longer one of the primary drivers of economic expansion. The local economy had begun to diversify with the growth of the sand extraction and dairy industries as well as with the establishment of irrigation districts that allowed for the cultivation of more water intensive crops, such as fruits and nuts.

Research could not confirm that the property located at 5200 Lone Tree Way is directly associated with Henry Heidorn Sr., nor could it be confirmed that the property is associated with Frederick H. Heidorn, Sr. prior to the 1920s. The earliest known record of the family occupying a property on Lone Tree Way is the 1920 census, which notes the family farm was located on Brentwood Road, likely the former name for Lone Tree Way. "National Register Bulletin: How to Apply the National Register Criteria for Evaluation" notes that "a property is not eligible if its associations are speculative."<sup>26</sup> Because it could not be determined that the property had a direct involvement in the early agricultural development of the area, the property does not appear to be significant under NRHP Criterion A within the context of the Early History of East Contra Costa County.

Even if the property's association with early agricultural development is later confirmed upon further research, it still does not appear to be eligible for listing under NRHP Criterion A because the property no longer reflects the period of time in which these important events took place. According to the Contra Costa County Assessor, the construction dates for the buildings on the property is 1926, which is after the end of the early period of agricultural development in east Contra Costa County between the 1850s and early 1920s. Additionally, the property has substantially changed since 1926 and no longer retains integrity of design, materials, workmanship, feeling, or setting. Most notably, the land surrounding 5200 Lone Tree Way

<sup>23</sup> McClelland et. al, 13.

<sup>24</sup> McClelland et. al, 13.

<sup>25</sup> Ibid.

<sup>26</sup> "National Register Bulletin 15: How to Apply the National Register Criteria for Evaluation," U.S. Department of the Interior, National Park Service, Cultural Resources, eds. Patrick Andrus and Rebecca Shrimpton, 1990, revised 1997, 12.



\*Resource Name or # (Assigned by recorder)

D1. Historic Name: Heidron Farm

D2. Common Name: None

was previously redeveloped into a residential subdivision and no longer retains its agricultural character. As "Guidelines for Evaluating and Documenting Rural Historic Landscapes" notes, "new construction and incompatible land uses covering extensive acreage such as residential subdivisions.... cause the greatest damage" to historic integrity.<sup>27</sup> Additionally, individual buildings, such as the residence and north barn, have been substantially altered through the removal and/or replacement of original features and materials. Please see the integrity assessment below for more information.

As noted above, research could not confirm that 5200 Lone Tree Way served or resulted from an important event, activity, or theme in agricultural development for East Contra Costa County nor that it had a direct involvement in significant events or activities by contributing to the area's economy, productivity, or identity as an early agricultural community. Therefore, the property does not appear to be eligible for listing under NRHP Criterion A.

#### *Criterion B*

NRHP Criterion B states that to be eligible, a property must be associated with the lives of persons significant in our past. NPS guidance specific to applying Criterion B to rural properties notes that persons associated with a rural property "may have, by their success, talent, or ingenuity, contributed to the historic development or economic prosperity of their community."<sup>28</sup> The guidance further notes that in certain instances "significance under Criterion B is often unrelated to historic uses," such as when a rural property is associated with the life of a political leader, writer, poet, artist, or industrialist. Finally, a property owned by one family over a long period of time may be eligible under Criterion B "if the accomplishments of one or more family members stand out."<sup>29</sup>

From at least the 1920s through the 2000s, 5200 Lone Tree Way was owned by the Heidorn family, who were European and European-American settlers who contributed to the early agricultural development of east Contra Costa County. Henry Heidorn Sr. was an immigrant from Hanover, Germany who arrived in the United States in 1868, and later received a land patent in 1874 for land in east Contra Costa County located at the present-day interchange of State Route (SR) 160 and SR 4. He is noted in the 1880 census as a farmer who owned a 200-acre farm with 100 acres of wheat under cultivation. His son, Frederick H. Heidorn, Sr., was born in east Contra Costa County in 1872. He later joined his father working on the family farm and was noted in newspaper articles from the 1920s as growing barley.

While both Henry Heidorn Sr. and Frederick H. Heidorn, Sr. are associated with early agricultural development in the area, research did not reveal either be an individual proven to have made a significant contribution to the historic development or economic prosperity of the local community. While the Heidorn family may have been prosperous early farmers, no primary or secondary sources were found that detail their specific activities, accomplishments, or influence that distinguishes them from other early farmers in east Contra Costa County.

Frederick Heidorn, Jr., son of Frederick H. Heidorn, Sr., was born on the family farm in 1910, and later inherited the property at 5200 Lone Tree Way after his father passed away in 1954. Besides his work as a farmer, he is noted as having been a member of several local organizations, including 4-H, Contra Costa Farm Bureau, Delta Dance, Antioch Senior Citizens, Antioch Historical Society and East Contra Costa Historical Society. He was also a trustee of the Lone Tree School District. While Frederick Heidorn, Jr. may

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<sup>27</sup> McClelland et. al, 24.

<sup>28</sup> McClelland et. al, 14.

<sup>29</sup> McClelland et. al, 14.

\*Resource Name or # (Assigned by recorder)

D1. Historic Name: Heidron Farm

D2. Common Name: None

have risen to local prominence within these community organizations, research did not reveal him to be an individual proven to have made a significant contribution to the historic development or economic prosperity of east Contra Costa County.

The individual contributions or roles of Henry Heidorn Sr., Frederick H. Heidorn, Sr., and Frederick Heidorn, Jr. cannot be identified and documented as significant within the history of east Contra Costa County under NRHP Criterion B. Additionally, many individuals have likely worked at the property over the years; however, collaborative efforts like these are typically best evaluated under Criterion A. For these reasons, 5200 Lone Tree Way does not appear to be significant under NRHP Criterion B.

### *Criterion C*

A property is eligible under NRHP Criterion C if it embodies the distinctive characteristics of a type, period, or method of construction, represents the work of a master, possesses high artistic values, or lastly, represents a significant and distinguishable entity whose components may lack individual distinction. NPS guidance specific to applying Criterion C to rural properties states that properties eligible under this criterion may “illustrate a pattern of land use significant for its representation of traditional practices unique to a community.”<sup>30</sup> Alternatively, the property may possess “buildings and outbuildings, whether high-style or vernacular, [that are] distinctive in design, style, or method of construction, and be representative of historic local or regional trends.”<sup>31</sup>

5200 Lone Tree Way may have originally exhibited the landscape characteristics of an agricultural property from the 1920s; however, few landscape characteristics dating from this period remain extant. The properties original land uses, division of property, overall pattern of circulation, and natural features were mostly demolished when the surrounding residential subdivision was constructed. Other features such as the original fields for cropping, orchards, tree lines, and boundary demarcations were also removed. The only features that remain are the six buildings and the main driveway, which was originally unpaved but has since been paved with asphalt.

The north barn, south barn, tank house, and two sheds are all vernacular in their design and construction. Like other agricultural buildings constructed at this time, they feature metal or composite shingle roofing, no foundation or concrete on grade, and wood channel siding or vertical board. The design and construction of these buildings are typical for early-to-mid-20<sup>th</sup> century agricultural properties and commonly found throughout California and the western United States.

The residence does not embody the distinctive characteristics that would make it significant as an example of any one particular style. The only notable original design feature it possesses is its roof shape and decorative brackets; otherwise, all original decorative features or ornament appear to have been previously removed. The residence is thus lacking in qualities associated with finer examples of popular architectural styles for single-family residences during this period, such as Craftsman, Period Revival, Spanish Colonial Revival, and American Colonial Revival. It does not exhibit quality craftsmanship, nor does it demonstrate any innovative, important, or outstanding design features.

Overall, 5200 Lone Tree Way is not distinctive in its design, style, or method of construction. The property does not illustrate a pattern of land use significant for its representation of traditional practices unique to a community. It is also not representative of historic trends that were specific to this local area or region.

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<sup>30</sup> McClelland et. al, 14.

<sup>31</sup> Ibid.

\*Resource Name or # (Assigned by recorder)

D1. Historic Name: Heidron Farm

D2. Common Name: None

Therefore, the property does not appear to be significant under the first aspect of NRHP Criterion C.

The original architect and/or builder of the buildings on the property are unknown, but it is unlikely given their appearance that any are representative of the work of a master architect or builder. The possession of high artistic values refers to a building's articulation of a particular concept of design so fully that it expresses an aesthetic ideal. A building eligible under this aspect of NRHP Criterion C would need to possess ornamentation and detail to lend it high artistic value, which none of the buildings on the property possess. The last component of NRHP Criterion C, representing a significant and distinguishable entity whose components may lack individual distinction, is most applicable to districts. While the property may meet this aspect of Criterion C, a district must also derive significance from Criteria A, B, or the first half of Criterion C, which the property does not.

For these reasons, 5200 Lone Tree Way does not appear to be eligible under NRHP Criterion C.

#### *Criterion D*

To be eligible for listing under NRHP Criterion D, a property's physical material must have yielded, or may be likely to yield, information important to history or prehistory. This criterion generally applies to archaeological resources but may apply to a built resource in instances where a resource may contain important information about such topics as construction techniques or human activity. In any case, the resource must be the principal source of information. This is unlikely to be true for an agricultural property from the 1920s. Therefore, 5200 Lone Tree Way does not appear to be significant under NRHP Criterion D.

#### *Integrity*

5200 Lone Tree Way was analyzed against the seven aspects of integrity: location, design, materials, workmanship, feeling, setting, and association. The location of the buildings on the property has not changed; therefore, the property retains integrity of location. Most of the land that was likely originally part of the property has been redeveloped as a residential subdivision and the property no longer retains its original land uses, circulation, spatial organization, and boundary demarcations. Changes have also been made to the individual buildings, vegetation, and small-scale landscape features. As a result of these substantial alterations, the property does not retain integrity of design. The integrity of materials and workmanship have also been diminished by these alterations as well as by the poor condition of many of the buildings and structures. The wood features of the south barn and two sheds are severely deteriorated. Because of the loss of the crop fields and orchards as well as alterations made to individual buildings, the property no longer retains its feeling of a 1920s farm. The immediate setting has been altered by the loss of the crop fields, orchards, and removal of other landscape characteristics. The broader setting has been substantially changed by the construction of the surrounding residential and commercial development. Thus, the property no longer retains integrity of setting. Finally, the property was not found to be significant for its association with events or trends under NRHP Criterion A, an individual under NRHP Criterion B, or an architectural type or style under NRHP Criterion C, so there is no relevant integrity of association to evaluate.

#### *Conclusion*

5200 Lone Tree Way is not significant under the four NRHP Criteria A, B, C, or D. Its integrity of design, materials, workmanship, feeling, and setting have also been diminished by changes over time as well as by the poor condition of select building and structures. Therefore, the property does not appear to be eligible for the NRHP.

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\*NRHP Status Code 6Z

\*Resource Name or # (Assigned by recorder)

D1. Historic Name: Heidron Farm

D2. Common Name: None

### **California Register of Historical Resources**

The CRHR criteria for eligibility mirror those of the NRHP. Therefore, 5200 Lone Tree Way is ineligible for listing in the CRHR for the same reasons outlined above.

\*D7. References (Give full citations including the names and addresses of any informants, where possible.):

#### **Primary Resources**

Bureau of Land Management. "Land Patent Search." *General Land Office Record*. Accessed July 15, 2021, <https://gloreCORDS.blm.gov/default.aspx>.

Bureau of Land Management, "Land Patent Search," *General Land Office Record* entry for Henry Heidorn, Sr., Contra Costa County, CA, no. 818.

"Diablo Valley Boy Dies after Operation." *Oakland Tribune*. January 5, 1926.

"Fred H. Heidorn, Sr." *Oakland Tribune*. March 27, 1954.

"Frederick Henry Heidorn, Jr." *Contra Costa Times*. February 28, 2007.

"Mrs. Laugenour to Be Bridge Club Hostess." *Woodland Daily Democrat*. January 18, 1929.

"Naval Day Celebration." *Mill Valley Record*. October 17, 1925.

Sanborn Map Company. *Antioch, California*, 1880.

United States Census Bureau, 1880. Township Five, Contra Costa County, California.

United States Census Bureau, 1920. Township Eight, Contra Costa County, California.

#### **Secondary Resources**

"Black Diamond Mines Regional Preserve," East Bay Regional Park District, accessed July 15, 2021, [https://www.ebparks.org/parks/black\\_diamond/default.htm#history](https://www.ebparks.org/parks/black_diamond/default.htm#history).

"California Gold Rush." Britannica. Accessed July 15, 2021, <https://www.britannica.com/topic/California-Gold-Rush>.

"California Office of Historic Preservation Technical Assistance Series #7: How to Nominate a Resource to the California Register of Historical Resources." California Office of Historic Preservation. Accessed June 7, 2021, [https://ohp.parks.ca.gov/pages/1056/files/07\\_TAB%20%20How%20To%20Nominate%20A%20Property%20to%20California%20Register.pdf](https://ohp.parks.ca.gov/pages/1056/files/07_TAB%20%20How%20To%20Nominate%20A%20Property%20to%20California%20Register.pdf).

"Knightson." East Contra Costa County Historical Society. Accessed July 15, 2021, <https://eastcontracostahistory.org/our-communities/knightson/>.

LSA Associates Inc. *City of Antioch General Plan*. Antioch, CA: City of Antioch, November 24, 2003.

McClelland, Linda Flint, J. Timothy Keller, Genevieve P. Keller, and Robert Z. Melnick, "Guidelines for Evaluation and Documenting Rural Historic Landscapes." U.S. Department of the Interior, National Park Service, Cultural Resources, 1989, revised 1999.

Page 13 of 17

\*NRHP Status Code 6Z

\*Resource Name or # (Assigned by recorder)

D1. Historic Name: Heidron Farm

D2. Common Name: None

"National Register Bulletin 15: How to Apply the National Register Criteria for Evaluation." U.S. Department of the Interior, National Park Service, Cultural Resources, eds. Patrick Andrus and Rebecca Shrimpton. Accessed June 7, 2021, [https://www.nps.gov/subjects/nationalregister/upload/NRB-15\\_web508.pdf](https://www.nps.gov/subjects/nationalregister/upload/NRB-15_web508.pdf).

Pape, Janet L. "Shannon Ranch/Williamson Ranch." National Register of Historic Places Nomination Form. Antioch, California. January 29, 1987.

Praetzellis, Adrian. "Black Diamond Mines." National Register of Historic Places Nomination Form. Antioch, California. Anthropological Studies Center, Sonoma State University. May 2, 1991.

\*D8. Evaluator: Emily Rinaldi, Stantec Consulting Services, Inc. Date: 7/14/2021  
Affiliation and Address: 801 Figueroa Street, Suite 300, Los Angeles, CA 90017

### CONTINUATION SHEET

Property Name: 5200 Lone Tree Way  
Page 10 of 17



### 5200 Lone Tree Way

- |              |              |
|--------------|--------------|
| ① Residence  | ④ Tankhouse  |
| ② North Barn | ⑤ North Shed |
| ③ South Barn | ⑥ South Shed |

(Base image courtesy of Google Maps)

**5200 Lone Tree Way Map (property outlined in red)**

## CONTINUATION SHEET

Property Name: 5200 Lone Tree Way  
Page 11 of 17



**Photograph 1.** Front driveway, view looking south towards residence and north barn (Stantec 7/12/21)



**Photograph 2.** Front driveway, view looking north towards residence and north barn (Stantec 7/12/21)



**Photograph 3.** Side yard, view looking north towards tank house (Stantec 7/12/21)



**Photograph 4.** North and south barn, view looking south (Stantec 7/12/21)



**Photograph 5.** South barn, view looking north towards Lone Tree Way (Stantec 7/12/21)



**Photograph 6.** Rear yard, view looking west (Stantec 7/12/21)

PRIMARY RECORD

Primary #  
HRI #  
Trinomial  
NRHP Status Code 6Z

Other Listings  
Review Code

Reviewer

Date

Page 12 of 17 \*Resource Name or #: (Assigned by recorder) 5200 Lone Tree Way

P1. Other Identifier: Residence

\*P2. Location:  Not for Publication  Unrestricted

\*a. County Contra Costa County and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)

\*b. USGS 7.5' Quad Antioch South Date 2018 T 1N; R 2E; SE¼ of NW¼ of Sec 04; Mount Diablo B.M.

c. Address 5200 Lone Tree Way City Antioch Zip 93526

d. UTM: (Give more than one for large and/or linear resources) Zone   ,    mE/    mN

e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)

Assessor Parcel Number (APN): 056-270-059

\*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The residence is one story in height and L-shaped in plan. The roof consists of a cross-gable roof with clipped gables. It is clad in composition shingles and features overhanging closed eaves and decorative brackets. The exterior is clad in lightly textured stucco. The main entrance is located at the center of the north elevation within a porch formed by the overhanging roof eave. It consists of paired fully glazed wood doors. It is accessed via concrete steps bordered by a low brick wall. A secondary entrance is located at the south end of the east elevation and consists of a single, partially glazed wood door. The windows consist of rectangular openings, either singular or grouped. The sashes are fixed, sliding, or single-hung vinyl. The residence appears to be stripped entirely of any decorative features or ornament that may have been part of its original design. Its original cladding has been removed and replaced with stucco, the roofing material replaced, and all of its door and window sashes replaced. A former window opening at the center of the north elevation has been resized into a paired door opening.

\*P3b. Resource Attributes: (List attributes and codes) HP2. Single family residence

\*P4. Resources Present:  Building  Structure  Object  Site  District  Element of District  Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects.)



P5b. Description of Photo: (view, date, accession #) View of residence at 5200 Lone Tree Way looking SW, 7/12/2021

\*P6. Date Constructed/Age and Source:  Historic  Prehistoric  Both

1926; Contra Costa Assessor's Office

\*P7. Owner and Address:

Jorge F. Vargas  
4300 Delta Fair Blvd  
Antioch, CA 94509

\*P8. Recorded by: (Name, affiliation, and address)

Emily Rinaldi and Rebecca Riggs  
Stantec Consulting Services, Inc.  
801 S. Figueroa St, Suite 300  
Los Angeles, CA 90017

\*P9. Date Recorded: 7/14/2021

\*P10. Survey Type: (Describe)  
Intensive Survey

\*P11. Report Citation: (Cite survey report and other sources, or enter "none.")  
Emily Rinaldi, Stantec Consulting Services Inc., "Historic Resource Evaluation Report for the 5200 Lone Tree Way United Pacific Gas Station Project," August 2021

\*Attachments:  NONE  Location Map  Continuation Sheet  Building, Structure, and Object Record  
 Archaeological Record  District Record  Linear Feature Record  Milling Station Record  Rock Art Record  
 Artifact Record  Photograph Record  Other (List):



# PRIMARY RECORD

Primary #  
HRI #  
Trinomial  
NRHP Status Code 6Z

Other Listings  
Review Code

Reviewer

Date

Page 13 of 17 \*Resource Name or #: (Assigned by recorder) 5200 Lone Tree Way  
P1. Other Identifier: North Barn

\*P2. Location:  Not for Publication  Unrestricted

- \*a. County Contra Costa County and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)  
\*b. USGS 7.5' Quad Antioch South Date 2018 T 1N; R 2E; SE¼ of NW¼ of Sec 04; Mount Diablo B.M.  
c. Address 5200 Lone Tree Way City Antioch Zip 93526  
d. UTM: (Give more than one for large and/or linear resources) Zone    ,     mE/     mN  
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)  
Assessor Parcel Number (APN): 056-270-059

\*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The north barn is one-story in height and rectangular in plan. It has a front gable roof clad in composition singles with wood eaves. It is clad in vertical wood channel siding. It has three garage openings on the west elevation, each with a roll-up garage door. The center opening is slightly wider than the side openings. There is a secondary pedestrian entrance at the south end of the east elevation. It consists of a single hollow-core wood door. Alterations to the north barn include its previously conversion into a garage, the likely reconfiguration of the original barn opening into three garage openings, as well as the replacement of the original cladding and roofing materials.

\*P3b. Resource Attributes: (List attributes and codes) HP4. Ancillary building

\*P4. Resources Present:  Building  Structure  Object  Site  District  Element of District  Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects.)



P5b. Description of Photo: (view, date, accession #) View of north barn at 5200 Lone Tree Way looking NE, 7/12/2021

\*P6. Date Constructed/ Age and Source:  Historic  Prehistoric  Both

1926; Contra County Assessor's Office

\*P7. Owner and Address:

Jorge F. Vargas  
4300 Delta Fair Blvd  
Antioch, CA 94509

\*P8. Recorded by: (Name, affiliation, and address)

Emily Rinaldi and Rebecca Riggs  
Stantec Consulting Services, Inc.  
801 S. Figueroa St, Suite 300  
Los Angeles, CA 90017

\*P9. Date Recorded: 7/14/2021

\*P10. Survey Type: (Describe)  
Intensive Survey

\*P11. Report Citation: (Cite survey report and other sources, or enter "none.")

Emily Rinaldi, Stantec Consulting Services Inc., "Historic Resource Evaluation Report for the 5200 Lone Tree Way United Pacific Gas Station Project," August 2021

\*Attachments:  NONE  Location Map  Continuation Sheet  Building, Structure, and Object Record  
 Archaeological Record  District Record  Linear Feature Record  Milling Station Record  Rock Art Record  
 Artifact Record  Photograph Record  Other (List): \_\_\_\_\_

# PRIMARY RECORD

Primary #  
HRI #  
Trinomial  
NRHP Status Code 6Z

Other Listings  
Review Code

Reviewer

Date

Page 14 of 17 \*Resource Name or #: (Assigned by recorder) 5200 Lone Tree Way  
P1. Other Identifier: South Barn

- \*P2. Location:  Not for Publication  Unrestricted
- \*a. County Contra Costa County and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
- \*b. USGS 7.5' Quad Antioch South Date 2018 T 1N; R 2E; SE $\frac{1}{4}$  of NW $\frac{1}{4}$  of Sec 04; Mount Diablo B.M.
- c. Address 5200 Lone Tree Way City Antioch Zip 93526
- d. UTM: (Give more than one for large and/or linear resources) Zone   ,    mE/    mN
- e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)  
Assessor Parcel Number (APN): 056-270-059

\*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The south barn is one-and-a-half stories in height and rectangular in plan. It has a front gable roof covered in corrugated metal panels. The building is clad in vertical wood board. There are three door openings located on the west elevation, each with a sliding wood plank door. There are also three door openings on the east elevation. The center opening features a single double-height wood board door. The opening at the south end has paired wood board doors, while the opening at the north end has a single wood board sliding door. There are rectangular window openings on the north and south elevations that are infilled with wood board. Alterations include the likely replacement of the original roofing material. The south barn appears to be in poor condition. Portions of the wood boards are displaced, splintering, rotting, or missing entirely. Portions of the roofing material is missing and select wood roof beams are displaced.

- \*P3b. Resource Attributes: (List attributes and codes) HP4. Ancillary building
- \*P4. Resources Present:  Building  Structure  Object  Site  District  Element of District  Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects.)



P5b. Description of Photo: (view, date, accession #) View of residence at 5200 Lone Tree Way looking SW, 7/12/2021

\*P6. Date Constructed/ Age and Source:  Historic  Prehistoric  Both  
1926; Contra County Assessor's Office

\*P7. Owner and Address:  
Jorge F. Vargas  
4300 Delta Fair Blvd  
Antioch, CA 94509

\*P8. Recorded by: (Name, affiliation, and address)  
Emily Rinaldi and Rebecca Riggs  
Stantec Consulting Services, Inc.  
801 S. Figueroa St, Suite 300  
Los Angeles, CA 90017

\*P9. Date Recorded: 7/14/2021

\*P10. Survey Type: (Describe)  
Intensive Survey

\*P11. Report Citation: (Cite survey report and other sources, or enter "none.")  
Emily Rinaldi, Stantec Consulting Services Inc., "Historic Resource Evaluation Report for the 5200 Lone Tree Way United Pacific Gas Station Project," August 2021

- \*Attachments:  NONE  Location Map  Continuation Sheet  Building, Structure, and Object Record  
 Archaeological Record  District Record  Linear Feature Record  Milling Station Record  Rock Art Record  
 Artifact Record  Photograph Record  Other (List):

# PRIMARY RECORD

Primary #  
HRI #  
Trinomial  
NRHP Status Code 6Z

Other Listings  
Review Code

Reviewer

Date

Page 15 of 17 \*Resource Name or #: (Assigned by recorder) 5200 Lone Tree Way  
P1. Other Identifier: Tankhouse

\*P2. Location:  Not for Publication  Unrestricted

- \*a. County Contra Costa County and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
- \*b. USGS 7.5' Quad Antioch South Date 2018 T 1N; R 2E; SE¼ of NW¼ of Sec 04; Mount Diablo B.M.
- c. Address 5200 Lone Tree Way City Antioch Zip 93526
- d. UTM: (Give more than one for large and/or linear resources) Zone   ,    mE/    mN
- e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)  
Assessor Parcel Number (APN): 056-270-059

\*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The tank house is a double-height structure with a square plan. It has a hipped roof clad in composition shingles topped by a wood finial. The structure is clad in horizontal wood board at the base with wood fish scale shingles above. The entrance is a single rectangular opening located off center on the east elevation. The door appears to have been previously removed. Rectangular openings infilled with wood vents are located on the north and south elevations. A vent infilled with wood lattice is also located on all elevations just below the roofline. Tank houses are enclosed water towers. The system historically operates via an exterior windmill that pumps water from a well into a water tank above. Alterations therefore likely include the removal of the windmill originally used in the tank house operation and the replacement of the original roofing materials.

\*P3b. Resource Attributes: (List attributes and codes) HP4. Ancillary building

\*P4. Resources Present:  Building  Structure  Object  Site  District  Element of District  Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects.)



P5b. Description of Photo: (view, date, accession #) View of tankhouse at 5200 Lone Tree Way looking SW, 7/12/2021

\*P6. Date Constructed/ Age and Source:  Historic  Prehistoric  Both

1926; Contra County Assessor's Office

\*P7. Owner and Address:  
Jorge F. Vargas  
4300 Delta Fair Blvd  
Antioch, CA 94509

\*P8. Recorded by: (Name, affiliation, and address)  
Emily Rinaldi and Rebecca Riggs  
Stantec Consulting Services, Inc.  
801 S. Figueroa St, Suite 300  
Los Angeles, CA 90017

\*P9. Date Recorded: 7/14/2021

\*P10. Survey Type: (Describe)  
Intensive Survey

\*P11. Report Citation: (Cite survey report and other sources, or enter "none.")  
Emily Rinaldi, Stantec Consulting Services Inc., "Historic Resource Evaluation Report for the 5200 Lone Tree Way United Pacific Gas Station Project," August 2021

\*Attachments:  NONE  Location Map  Continuation Sheet  Building, Structure, and Object Record  
 Archaeological Record  District Record  Linear Feature Record  Milling Station Record  Rock Art Record  
 Artifact Record  Photograph Record  Other (List): \_\_\_\_\_

**PRIMARY RECORD**

Primary #  
HRI #  
Trinomial  
NRHP Status Code 6Z

Other Listings  
Review Code

Reviewer

Date

Page 16 of 17 \*Resource Name or #: (Assigned by recorder) 5200 Lone Tree Way  
P1. Other Identifier: North Shed

- \*P2. Location:  Not for Publication  Unrestricted
  - \*a. County Contra Costa County and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)
  - \*b. USGS 7.5' Quad Antioch South Date 2018 T 1N; R 2E; SE¼ of NW¼ of Sec 04; Mount Diablo B.M.
  - c. Address 5200 Lone Tree Way City Antioch Zip 93526
  - d. UTM: (Give more than one for large and/or linear resources) Zone   ,    mE/    mN
  - e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)  
Assessor Parcel Number (APN): 056-270-059

\*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The north shed is one story in height and rectangular in plan. It has a corrugated metal shed roof. The exterior is wood board. The entrance is located on the south elevation and consists of a rectangular opening. Alterations include the likely replacement of the original roofing material. The wood board is also in poor condition. Portions of the planks are displaced, splintering, rotting, or missing entirely.

- \*P3b. Resource Attributes: (List attributes and codes) HP4. Ancillary building
- \*P4. Resources Present:  Building  Structure  Object  Site  District  Element of District  Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects.)



P5b. Description of Photo: (view, date, accession #) View of north shed at 5200 Lone Tree Way looking NE, 7/12/2021

\*P6. Date Constructed/Age and Source:  Historic  Prehistoric  Both  
1926; Contra County Assessor's Office

\*P7. Owner and Address:  
Jorge F. Vargas  
4300 Delta Fair Blvd  
Antioch, CA 94509

\*P8. Recorded by: (Name, affiliation, and address)  
Emily Rinaldi and Rebecca Riggs  
Stantec Consulting Services, Inc.  
801 S. Figueroa St, Suite 300  
Los Angeles, CA 90017

\*P9. Date Recorded: 7/14/2021

\*P10. Survey Type: (Describe)  
Intensive Survey

\*P11. Report Citation: (Cite survey report and other sources, or enter "none.")  
Emily Rinaldi, Stantec Consulting Services Inc., "Historic Resource Evaluation Report for the 5200 Lone Tree Way United Pacific Gas Station Project," August 2021

- \*Attachments:  NONE  Location Map  Continuation Sheet  Building, Structure, and Object Record
- Archaeological Record  District Record  Linear Feature Record  Milling Station Record  Rock Art Record
- Artifact Record  Photograph Record  Other (List):

# PRIMARY RECORD

Primary #  
HRI #  
Trinomial  
NRHP Status Code 6Z

Other Listings  
Review Code

Reviewer

Date

Page 17 of 17 \*Resource Name or #: (Assigned by recorder) 5200 Lone Tree Way  
P1. Other Identifier: South Shed

\*P2. Location:  Not for Publication  Unrestricted

- \*a. County Contra Costa County and (P2c, P2e, and P2b or P2d. Attach a Location Map as necessary.)  
\*b. USGS 7.5' Quad Antioch South Date 2018 T 1N; R 2E; SE $\frac{1}{4}$  of NW $\frac{1}{4}$  of Sec 04; Mount Diablo B.M.  
c. Address 5200 Lone Tree Way City Antioch Zip 93526  
d. UTM: (Give more than one for large and/or linear resources) Zone    ,     mE/     mN  
e. Other Locational Data: (e.g., parcel #, directions to resource, elevation, decimal degrees, etc., as appropriate)  
Assessor Parcel Number (APN): 056-270-059

\*P3a. Description: (Describe resource and its major elements. Include design, materials, condition, alterations, size, setting, and boundaries)

The south shed is one story in height and rectangular in plan. It has a corrugated metal front gable roof. The exterior is wood board. The entrance is located on the east elevation and consists of a large rectangular opening. A large rectangular window opening on the north elevation is infilled with wood lattice. Alterations include the likely replacement of the original roofing material. The wood board is also in poor condition. Portions of the planks are displaced, splintering, rotting, or missing entirely.

\*P3b. Resource Attributes: (List attributes and codes) HP4. Ancillary building

\*P4. Resources Present:  Building  Structure  Object  Site  District  Element of District  Other (Isolates, etc.)

P5a. Photograph or Drawing (Photograph required for buildings, structures, and objects.)



P5b. Description of Photo: (view, date, accession #) View of south shed at 5200 Lone Tree Way looking SW, 7/12/2021

\*P6. Date Constructed/ Age and Source:  Historic  Prehistoric  Both  
1926; Contra County Assessor's Office

\*P7. Owner and Address:  
Jorge F. Vargas  
4300 Delta Fair Blvd  
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\*P9. Date Recorded: 7/14/2021

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\*P11. Report Citation: (Cite survey report and other sources, or enter "none.")  
Emily Rinaldi, Stantec Consulting Services Inc., "Historic Resource Evaluation Report for the 5200 Lone Tree Way United Pacific Gas Station Project," August 2021

\*Attachments:  NONE  Location Map  Continuation Sheet  Building, Structure, and Object Record  
 Archaeological Record  District Record  Linear Feature Record  Milling Station Record  Rock Art Record  
 Artifact Record  Photograph Record  Other (List): \_\_\_\_\_



# **Appendix D**

## **Energy Consumption Summary**

PhaseName	PhaseType	PhaseStartDate	PhaseEndDate	NumDaysWeek	NumDays
Demolition	Demolition	2022/06/01	2022/06/21	5	15
Site Preparation	Site Preparation	2022/06/22	2022/06/23	5	2
Grading	Grading	2022/06/24	2022/06/29	5	4
Building Construction	Building Construction	2022/06/30	2023/01/04	5	135
Paving	Paving	2023/01/05	2023/01/18	5	10
Architectural Coating	Architectural Coating	2023/01/19	2023/01/31	5	9

Phase Name	Type	Amount	Usage Hours	Horse Power	Load Factor	Number of Days	Horse Pow Fuel (gallons/HP-hour)	diesel Fuel Usage	Total
Demolition	Concrete/Industrial Saws	1	6	81	0.73	15	5,321.7	0.041989865	223.46
Demolition	Excavators	1	4	158	0.38	15	3,602.4	0.019761453	71.19
Demolition	Rubber Tired Dozers	0	8	247	0.4	15	0.0	0.02048249	0.00
Demolition	Skid Steer Loaders	1	6	65	0.37	15	2,164.5	0.019057691	41.25
Demolition	Tractors/Loaders/Backhoes	3	6	97	0.37	15	9,690.3	0.019127164	185.35
Site Preparation	Graders	1	6	187	0.41	2	920.0	0.02115725	19.47
Site Preparation	Rubber Tired Dozers	1	6	247	0.4	2	1,185.6	0.02048249	24.28
Site Preparation	Tractors/Loaders/Backhoes	1	6	97	0.37	2	430.7	0.019127164	8.24
Grading	Graders	1	6	187	0.41	4	1,840.1	0.02115725	38.93
Grading	Rubber Tired Dozers	1	6	247	0.4	4	2,371.2	0.02048249	48.57
Grading	Tractors/Loaders/Backhoes	2	6	97	0.37	4	1,722.7	0.019127164	32.95
Building Construction	Aerial Lifts	1	0.2	63	0.31	135	527.3	0.026177024	13.80
Building Construction	Cranes	1	0.2	231	0.29	135	1,808.7	0.014889117	26.93
Building Construction	Forklifts	1	6	89	0.2	135	14,418.0	0.010380794	149.67
Building Construction	Generator Sets	1	7	84	0.74	135	58,741.2	0.042332745	2,486.68
Building Construction	Tractors/Loaders/Backhoes	1	3	97	0.37	135	14,535.5	0.019127164	278.02
Building Construction	Welders	3	4	46	0.45	135	33,534.0	0.025824342	865.99
Paving	Cement and Mortar Mixers	1	6	9	0.56	10	302.4	0.031954134	9.66
Paving	Pavers	1	6	130	0.42	10	3,276.0	0.021528159	70.53
Paving	Paving Equipment	1	6	132	0.36	10	2,851.2	0.018324359	52.25
Paving	Rollers	1	6	80	0.38	10	1,824.0	0.019411734	35.41
Paving	Tractors/Loaders/Backhoes	1	6	97	0.37	10	2,153.4	0.019127164	41.19
Paving	Welders	3	4	46	0.45	10	2,484.0	0.025824342	64.15
Architectural Coating	Air Compressors	1	6	78	0.48	9	2,021.8	0.02758243	55.77

4843.721035 4843.721



Phase Name	Phase Type	Phase Start Date	Phase End Date	Num Days Week	Num Days
Demolition	Demolition	2022/06/01	2022/06/21	5	15
Site Preparation	Site Preparation	2022/06/22	2022/06/23	5	2
Grading	Grading	2022/06/24	2022/06/29	5	4
Building Construction	Building Construction	2022/06/30	2023/01/04	5	135
Paving	Paving	2023/01/05	2023/01/18	5	10
Architectural Coating	Architectural Coating	2023/01/19	2023/01/31	5	9

Phase Name	Trips per Day			Construction Trip Length (Miles)				Trips per Phase			VMT per Phase			Fuel Consumption		
	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Days per Phase	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trips	Vendor Trips	Hauling Trips	Worker Trips	Vendor Trips	Hauling Trips
Demolition	36	0	39	10.8	7.3	22.3	15	540	0	39	5,832.00	0.00	869.70	222.54	0.00	147.13
Site Preparation	36	0	0	10.8	7.3	20	2	72	0	0	777.60	0.00	0.00	29.67	0.00	0.00
Grading	36	0	80	10.8	7.3	22.3	4	144	0	80	1,555.20	0.00	1,784.00	59.34	0.00	301.80
Building Construction	60	9	0	10.8	7.3	20	135	8100	72900	0	87,480.00	532,170.00	0.00	3,338.11	56,330.00	0.00
Paving	36	0	0	10.8	7.3	20	10	360	0	0	3,888.00	0.00	0.00	148.36	0.00	0.00
Architectural Coating	36	0	0	10.8	7.3	20	9	324	0	0	3,499.20	0.00	0.00	133.52	0.00	0.00

Total of all trips 60,710.48

**Trip Summary**

Land Use	Weekday	Average Daily Trip Rate		Unmitigated Annual VMT		Mitigated Annual VMT	
		Saturday	Sunday	Unmitigated	Mitigated	Unmitigated	Mitigated
Automobile Care Center		11.55	26.80	13.42	13,942.48	13,942.48	
Convenience Market with Gas Pumps		3,688.00	1,997.44	1,997.44	1,915,032.65	1,915,032.65	
Other Asphalt Surfaces		0.00	0.00	0.00	0.00	0.00	
Parking Lot		0.00	0.00	0.00	0.00	0.00	
Other Non-Asphalt Surfaces		0.00	0.00	0.00	0.00	0.00	
<b>Total</b>		<b>3,699.55</b>	<b>2,024.24</b>	<b>2,010.86</b>	<b>1,928,975.13</b>	<b>1,928,975.13</b>	

**FLEET MIX**

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.558086	0.056127	0.18057	0.129764	0.024304	0.00548	0.007016	0.007028	0.000551	0.000343	0.026017	0.001231	0.003481
0.558086	0.366461			0.043828				0.005606		0.026017		

	Percent of Vehicle Trips	Annual VMT	Daily VMT	Average Fuel Economy		
				(miles/gallon)	Total Annual Fuel Consumption (gallons)	Total Daily Fuel Consumption (gallons)
Passenger Cars (LDA)	55.8%	1,076,534.01	2,949.41	30.3	35,539.9	97.4
Light Trucks and Medium Vehicles (LDT1, LDT2, and MDV)	36.6%	706,894.16	1,936.70	22.6	31,314.1	85.8
Light-Heavy to Heavy-Heavy Diesel Trucks	4.4%	84,543.12	231.62	9.4	9,020.2	24.7
Motorcycles	0.6%	10,813.83	29.63	41.0	263.5	0.7
Other	2.6%	50,186.15	137.50	6.8	7,365.6	20.2
<b>Total</b>	<b>100.0%</b>	<b>1,928,975.13</b>	<b>5,284.85</b>		<b>83,503.2</b>	<b>228.8</b>

**Project Operations Electricity Use**

Source: CalEEMod

5200 Lone Tree Way Gas Station Project - Buildout Year Operations

Energy Use Land Use Sub Type	Land Use Size	T24E	NT24E	LightingElect			T24NG	NT24NG		
Automobile Care Center	1130	1.32	3.7	3.08	8.1	9,153	19.51	6.67	26.18	29,583.40
Convenience Market with Gas Pumps	3200	2	2.68	5.25	10.39	33,248	2.34	0	2.34	7,488.00
Other Asphalt Surfaces	41400	0	0	0	0	0	0	0	0	0
Other Non-Asphalt Surfaces	33976.8	0	0	0	0	0	0	0	0	0
Parking Lot	7600	0	0	0.35	0.35	2,660	0	0	0	0
<b>Total</b>						<b>45,061</b>				<b>37,071</b>



# **Appendix E**

## **Noise Report**



**5200 Lone Tree Way United  
Pacific Gas Station Project**

Noise Report

October 29, 2021

Prepared for:

City of Antioch

Prepared by:  
Stantec Consulting Services Inc.  
1340 Treat Blvd #300  
Walnut Creek, CA 94597



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## Acronyms and Abbreviations

CalGreen	California Green Building Standards Code
CEQA	California Environmental Quality Act
CNEL	Community Noise Equivalent Level
dB	Decibels
dB(A)	Decibels A-Weighted
EPA	United States Environmental Protection Agency
FHWA	Federal Highway Administration
FTA	Federal Transit Administration
Hz	Hertz (Frequency)
Ldn / DNL	Day-Night Noise Level
Leq	Equivalent Noise Level
Lmax	Maximum Noise Level
Lmin	Minimum Noise Level
OITC	Outside-Inside Transmission Class
PPV	Peak Particle Velocity
RCNM	Roadway Construction Noise Model
STC	Sound Transmission Class





## 1.0 PROJECT DESCRIPTION

The proposed project consists of a new United Pacific convenience store of 3,200 sf, attached car wash of 1,125 sf, a fuel canopy with eight fuel dispensers, three underground storage tanks, and related site improvements and landscaping on an approximately 2.0-acre lot. The proposed project proposes right-in/right-out ingress and egress from Lone Tree Way and Vista Grande Drive. The proposed project would provide nineteen parking stalls and landscaping which would consist of drought-tolerant species, including shade canopy trees. The car wash drive lane would provide adequate stacking away from areas of ingress/egress from public right-of-way. Additionally, the proposed project would include the widening of Lone Tree Way to accommodate a 270-foot deceleration lane taper along eastbound Lone Tree Way to the proposed 30-foot driveway.

## 2.0 ENVIRONMENTAL SETTING

### 2.1 NOISE FUNDAMENTALS AND TERMINOLOGY

Noise is generally defined as unwanted sound that annoys or disturbs people and potentially causes an adverse psychological or physiological effect on human health. Because noise is an environmental pollutant that can interfere with human activities, evaluation of noise is necessary when considering the environmental impacts of a proposed project.

Sound is mechanical energy (vibration) transmitted by pressure waves over a medium such as air or water. Sound is characterized by various parameters that include the rate of oscillation of sound waves (frequency), the speed of propagation, and the pressure level or energy content (amplitude). In particular, the sound pressure level is the most common descriptor used to characterize the loudness of an existing sound level.

Although the decibel (dB) scale, a logarithmic scale, is used to quantify sound intensity, it does not accurately describe how sound intensity is perceived by human hearing. The perceived loudness of sound is dependent upon many factors, including sound pressure level and frequency content. The human ear is not equally sensitive to all frequencies in the entire spectrum, so noise measurements are weighted more heavily for frequencies to which humans are sensitive in a process called A-weighting, written as dB(A) and referred to as A-weighted decibels. There is a strong correlation between A-weighted sound levels and community response to noise. For this reason, the A-weighted sound level has become the standard tool of environmental noise assessment. Table 1 summarizes typical A-weighted sound levels for different common noise sources.



**Table 2.11. Typical A-Weighted Sound Levels**

Common Outdoor Activities	Noise Level (dBA)	Common Indoor Activities
Jet flyover at 1,000 Feet	-110-	Rock band
Gas lawnmower at 3 Feet	-100-	
Diesel truck at 50 Feet at 50 MPH	-90-	Food blender at 3 Feet
Noisy urban area, daytime	-80-	Garbage Disposal at 3 Feet
Gas lawnmower, 100 Feet		
Commercial area	-70-	Vacuum Cleaner at 10 Feet
Heavy traffic at 300 Feet		Normal Speech at 3 Feet
	-60-	
Quiet urban daytime		Large business office
	-50-	Dishwasher in next room
Quiet urban nighttime		
Quiet suburban nighttime	-40-	Theater, large conference room (Background)
Quiet rural nighttime	-30-	Library
		Bedroom at night, concert hall (Background)
	-20-	
	-10-	Broadcast/recording studio
	-0-	

Source: Caltrans, Technical Noise Supplement Traffic Noise Analysis Protocol, September 2013

Different types of measurements are used to characterize the time-varying nature of sound. These measurements include the equivalent sound level (Leq), the minimum and maximum sound levels (Lmin and Lmax, respectively), percentile-exceeded sound levels (such as L10, L20), the day-night sound level (Ldn), and the community noise equivalent level (CNEL). Ldn and CNEL values often differ by less than 1 dB. As a matter of practice, Ldn and CNEL values are considered to be equivalent and are treated as such in this assessment. Table 2 defines sound measurements and other terminology used in this report.

**Table 2. Definition of Sound Measurements**

Sound Measurements	Definition
Decibel (dB)	A unitless measure of sound on a logarithmic scale, which indicates the squared ratio of sound pressure amplitude to a reference sound pressure amplitude. The reference pressure is 20 micro-pascals.
A-Weighted Decibel (dB(A))	An overall frequency-weighted sound level in decibels that approximates the frequency response of the human ear.
Maximum Sound Level (Lmax)	The maximum sound level measured during the measurement period.
Minimum Sound Level (Lmin)	The minimum sound level measured during the measurement period.



Sound Measurements	Definition
Equivalent Sound Level (Leq)	The equivalent steady state sound level that in a stated period of time would contain the same acoustical energy.
Percentile-Exceeded Sound Level (Lxx)	The sound level exceeded xx % of a specific time period. L10 is the sound level exceeded 10% of the time. L90 is the sound level exceeded 90% of the time. L90 is often considered to be representative of the background noise level in a given area.
Day-Night Level (Ldn)	The energy average of the A-weighted sound levels occurring during a 24-hour period, with 10 dB added to the A-weighted sound levels occurring during the period from 10:00 p.m. to 7:00 a.m.
Community Noise Equivalent Level (CNEL)	The energy average of the A-weighted sound levels occurring during a 24-hour period with 5 dB added to the A-weighted sound levels occurring during the period from 7:00 p.m. to 10:00 p.m. and 10 dB added to the A-weighted sound levels occurring during the period from 10:00 p.m. to 7:00 a.m.
Peak Particle Velocity (PPV)	A measurement of ground vibration defined as the maximum speed (measured in inches per second) at which a particle in the ground is moving relative to its inactive state. PPV is usually expressed in inches/second.
Frequency: Hertz (Hz)	The number of complete pressure fluctuations per second above and below atmospheric pressure.

Source: Federal Highway Administration Construction Noise Handbook (FHWA 2006)

With respect to how humans perceive and react to changes in noise levels, a 1 dB(A) increase is imperceptible, a 3 dB(A) increase is barely perceptible, a 5 dB(A) increase is clearly noticeable, and a 10 dB(A) increase is subjectively perceived as approximately twice as loud. These subjective reactions to changes in noise levels were developed on the basis of test subjects' reactions to changes in the levels of steady-state pure tones or broadband noise and to changes in levels of a given noise source. These statistical indicators are thought to be most applicable to noise levels in the range of 50 to 70 dB(A), as this is the usual range of voice and interior noise levels. Numbers of agencies and municipalities have developed or adopted noise level standards, consistent with these and other similar studies to help prevent annoyance and to protect against the degradation of the existing noise environment.

For a point source such as a stationary compressor or construction equipment, sound attenuates based on geometry at a rate of 6 dB per doubling of distance. For a line source such as free-flowing traffic on a freeway, sound attenuates at a rate of 3 dB per doubling of distance. Atmospheric conditions including wind, temperature gradients, and humidity can change how sound propagates over distance and can affect the level of sound received at a given location. The degree to which the ground surface absorbs acoustical energy also affects sound propagation. Sound that travels over an acoustically absorptive surface, such as grass, attenuates at a slightly greater rate than sound that travels over a hard surface, such as pavement. The increased attenuation is typically in the range of 1–2 dB per doubling of distance. Barriers, such as buildings and topography that block the line of sight between a source and receiver, also increase the attenuation of sound over distance.



## 2.2 DECIBEL ADDITION

Because decibels are logarithmic units, sound pressure levels cannot be added or subtracted through ordinary arithmetic. On the dB scale, a doubling of sound energy corresponds to a 3 dB increase. In other words, when two identical sources are each producing sound of the same loudness, their combined sound level at a given distance would be 3 dB higher than one source under the same conditions. For example, if one source produces a sound pressure level of 70 dB(A), two identical sources would combine to produce 73 dB(A). The cumulative sound level of any number of sources can be determined using decibel addition.

## 2.3 VIBRATION STANDARDS

Vibration is like noise such that noise involves a source, a transmission path, and a receiver. While related to noise, vibration differs in that noise is generally considered to be pressure waves transmitted through air, whereas vibration usually consists of the excitation of a structure or surface. As with noise, vibration consists of an amplitude and frequency. A person's perception to vibration depends on their individual sensitivity to vibration, as well as the amplitude and frequency of the source and the response of the system that is vibrating.

Vibration can be measured in terms of acceleration, velocity, or displacement. A common practice is to monitor vibration in terms of peak particle velocity (PPV) in inches per second. Standards pertaining to perception as well as damage to structures have been developed for vibration levels defined in terms of PPV.

Human and structural response to different vibration levels is influenced by a number of factors, including ground type, distance between source and receptor, duration, and the number of perceived vibration events. Table 3 notes the general threshold at which human annoyance could occur is 0.1 PPV for continuous/frequent sources. Table 4 indicates the threshold for damage to typical residential and commercial structures ranges from 0.3 to 0.5 PPV for continuous/frequent sources.

**Table 1. Guideline Vibration Annoyance Potential Criteria**

Human Response	Maximum Peak Particle Velocity (inches/second)	
	Transient Sources	Continuous/Frequent Sources
Barely perceptible	0.035	0.012
Distinctly perceptible	0.24	0.035
Strongly perceptible	0.90	0.10
Severe	2.0	0.40

Notes: Transient sources create a single isolated vibration event, such as blasting or drop balls. Continuous/frequent intermittent sources include impact pile drivers, pogo-stick compactors, crack-and-seal equipment, vibratory pile drivers, and vibratory compaction equipment.  
Source: Caltrans Transportation and Construction Vibration Guidance Manual (Caltrans 2020)



**Table 2. Guideline Vibration Damage Potential Criteria**

Structure and Condition	Maximum Peak Particle Velocity (inches/second)	
	Transient Sources	Continuous/Frequent Sources
Extremely fragile historic buildings, ruins, ancient monuments	0.12	0.08
Fragile buildings	0.30	0.12
Historic and some old buildings	0.50	0.20
Older residential structure	0.70	0.30
New residential structures	1.2	0.50
Modern industrial/commercial buildings	2.0	0.50

Notes: Transient sources again create a single isolated vibration event, such as blasting or drop balls. Continuous/frequent intermittent sources include impact pile drivers, pogo-stick compactors, crack-and-seal equipment, vibratory pile drivers, and vibratory compaction equipment.  
Source: Caltrans Transportation and Construction Vibration Guidance Manual (Caltrans 2020)

The operation of heavy construction equipment, particularly pile driving and other impact devices, such as pavement breakers, create seismic waves that radiate along the surface of the ground and downward into the earth. These surface waves can be felt as ground vibration. Vibration from the operation of this equipment can result in effects ranging from annoyance of people to damage of structures. Varying geology and distance will result in different vibration levels containing different frequencies and displacements. In all cases, vibration amplitudes will decrease with increasing distance. Perceptible groundborne vibration is generally limited to areas within a few hundred feet of construction activities.

Table 7-4 “Vibration Source Levels for Construction Equipment” in the 2018 Federal Transit Administration (FTA) Transit Noise and Vibration Impact Assessment Manual lists vibration source levels for the construction equipment most likely to generate high levels of ground vibration (FTA 2018). The equipment listed in the FTA table includes impact and sonic pile drivers, clam shovel drops, hydromills, vibratory rollers, hoe rams, large and small bulldozers, caisson drilling, loaded trucks, and jackhammers. Table 5 below summarizes typical reference vibration levels generated by select construction equipment proposed for this project.

**Table 3. Vibration Source Levels for Construction Equipment**

Equipment	Peak Particle Velocity at 25 Feet
Vibratory roller	0.210
Large bulldozer	0.089
Loaded trucks	0.076
Small bulldozer	0.003

Source: Federal Transit Administration Transit Noise and Vibration Impact Assessment Manual (FTA 2018)

Vibration amplitude attenuates over distance and is a complex function of how energy is imparted into the ground and the soil conditions through which the vibration is traveling. The following equation can be



used to estimate the vibration level at a given distance for typical soil conditions (FTA 2018). “PPVref” is the reference PPV from Table 5 and “Distance” is the distance between the source and the receptor:

$$PPV = PPV_{ref} \times (25/Distance)^{1.5}$$

## 3.0 REGULATORY SETTING

Federal, state, and local agencies regulate different aspects of environmental noise. Generally, the federal government sets standards for transportation-related noise sources closely linked to interstate commerce. These include aircraft, locomotives, and trucks. No federal noise standards are directly applicable to this project. The state government sets standards for transportation noise sources such as automobiles, light trucks, and motorcycles. Noise sources associated with industrial, commercial, and construction activities are generally subject to local control through noise ordinances and general plan policies. Local general plans identify general principles intended to guide and influence development plans.

### 3.1 STATE REGULATIONS

#### 3.1.1 California Green Building Standards (CalGreen)

The 2016 California Green Building Standards Code (CalGreen) establishes interior noise insulation standards for non-residential occupied buildings. CalGreen Section 5.507 “Environmental Comfort”, states the following:

*5.507.4.1 Exterior noise transmission. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:*

1. *Within the 65 CNEL noise contour of an airport*

*Exceptions:*

1. *Ldn or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.*
2. *Ldn or CNEL for other airports and heliports for which a land use plan that has not been developed shall be determined by the local general plan noise element.*
3. *Within the 65 CNEL or Ldn noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway noise source as determined by the Noise Element of the General Plan.*

*5.507.4.1.1 Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB Leq-1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).*



*5.507.4.2 Performance method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq -1Hr) of 50 dBA in occupied areas during any hours of operations*

*5.507.4.2.1 Site features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.*

*5.507.4.2.2 Documentation of compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.*

*5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.*

## **3.2 LOCAL REGULATIONS**

### **3.2.1 City of Antioch General Plan<sup>1</sup>**

The General Plan sets forth noise and land use compatibility standards to guide development, as well as noise goals and policies to protect citizens from the harmful and annoying effects of excessive noise. The following noise objectives and policies are applicable to the proposed project.

Objective 11.6.1 Noise Objective. Achieve and maintain exterior noise levels appropriate to planned land uses throughout Antioch as described below:

- Residential
  - Single-Family: 60 dBA CNEL within rear yards
  - Multifamily: 60 dBA CNEL within exterior open space
- Schools
  - Classrooms: 65 dBA CNEL
  - Play and Sports Areas: 70 dBA CNEL
- Hospitals, Libraries: 60 dBA CNEL
- Commercial/Industrial: 70 dBA CNEL at the front setback

#### 11.6.2 Noise Policies

- a. Implementation of the noise objective contained in Section 11.6.1 and the policies contained in 11.6.2 of the Environmental Hazards Element shall be based on noise data contained in Section 4.9 of the General Plan EIR, unless a noise analysis conducted

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<sup>1</sup> [https://www.antiochca.gov/fc/community-development/planning/Antioch\\_Adopted\\_General\\_Plan.pdf](https://www.antiochca.gov/fc/community-development/planning/Antioch_Adopted_General_Plan.pdf), last accessed October 29, 2021.



pursuant to the City's development and environmental review process provides more up-to-date and accurate noise predictions, as determined by the City.

- b. Maintain a pattern of land uses that separates noise sensitive land uses from major noise sources to the extent possible, and guide noise-tolerant land uses into the noisier portions of the Planning Area.
- c. Minimize motor vehicle noise in residential areas through proper route location and sensitive roadway design.
  - Provide planned industrial areas with truck access routes separated from residential areas to the maximum feasible extent.
  - Where needed, provide traffic calming devices to slow traffic speed within residential neighborhoods.
- d. Where new development (including construction and improvement of roadways) is proposed in areas exceeding the noise levels identified in the General Plan Noise Objective, or where the development of proposed uses could result in a significant increase in noise, require a detailed noise attenuation study to be prepared by a qualified acoustical engineer to determine appropriate mitigation and ways to incorporate such mitigation into project design and implementation.
- e. When new development incorporating a potentially significant noise generator is proposed, require noise analyses to be prepared by a qualified acoustical engineer. Require the implementation of appropriate noise mitigation when the proposed project will cause new exceedances of General Plan noise objectives, or an audible (3.0 dB(A)) increase in noise in areas where General Plan noise objectives are already exceeded as the result of existing development.
- f. In reviewing noise impacts, utilize site design and architectural design features to the extent feasible to mitigate impacts on residential neighborhoods and other uses that are sensitive to noise. In addition to sound barriers, design techniques to mitigate noise impacts may include, but are not limited to:
  - Increased building setbacks to increase the distance between the noise source and sensitive receptor.
  - Orient buildings which are compatible with higher noise levels adjacent to noise generators or in clusters to shield more noise sensitive areas and uses.
  - Place noise tolerant use, such as parking areas, and noise tolerant structures, such as garages, between the noise source and sensitive receptor.





- Cluster office, commercial, or multifamily residential structures to reduce noise levels within interior open space areas.
  - Provide double glazed and double paned windows on the side of the structure facing a major noise source, and place entries away from the noise source to the extent possible.
- g. Where feasible, require the use of noise barriers (walls, berms, or a combination thereof) to reduce significant noise impacts.
- Noise barriers must have sufficient mass to reduce noise transmission and high enough to shield the receptor from the noise source.
  - To be effective, the barrier needs to be constructed without cracks or openings.
  - The barrier must interrupt the line of sight between the noise sources and the noise receptor.
  - The effects of noise “flanking” the noise barrier should be minimized by bending the end of the barrier back from the noise source.
  - Require appropriate landscaping treatment to be provided in conjunction with noise barriers to mitigate their potential aesthetic impacts.
- h. Continue enforcement of California Noise Insulation Standards (Title 25, Section 1092, California Administrative Code).
- i. Ensure that construction activities are regulated as to hours of operation in order to avoid or mitigate noise impacts on adjacent noise-sensitive land uses.
- j. Require proposed development adjacent to occupied noise sensitive land uses to implement a construction-related noise mitigation plan. This plan would depict the location of construction equipment storage and maintenance area, and document methods to be employed to minimize noise impacts on adjacent noise sensitive land uses.
- k. Require that all construction equipment utilize noise reduction features (e.g., mufflers and engine shrouds) that are no less effective than those originally installed by the manufacturer.
- m. Prior to the issuance of any grading plans, the City shall condition approval of subdivisions and non-residential development adjacent to any developed/occupied noise-sensitive land uses by requiring applicants to submit a construction-related noise



mitigation plan to the City for review and approval. The plan should depict the location of construction equipment and how the noise from this equipment will be mitigated during construction of the project through the use of such methods as:

- The construction contractor shall use temporary noise-attenuation fences, where feasible, to reduce construction noise impacts on adjacent noise sensitive land uses.
  - During all project site excavation and grading on-site, the construction contractors shall equip all construction equipment, fixed or mobile, with properly operating and maintained mufflers, consistent with manufacturers' standards. The construction contractor shall place all stationary construction equipment so that emitted noise is directed away from sensitive receptors nearest the project site.
  - The construction contractor shall locate equipment staging in areas that will create the greatest distance between construction-related noise sources and noise-sensitive receptors nearest the project site during all project construction.
  - The construction contractor shall limit all construction-related activities that would result in high noise levels to between the hours of 7:00 a.m. and 7:00 p.m. Monday through Saturday. No construction shall be allowed on Sundays and public holidays.
- n. The construction-related noise mitigation plan required shall also specify that haul truck deliveries be subject to the same hours specified for construction equipment. Additionally, the plan shall denote any construction traffic haul routes where heavy trucks would exceed 100 daily trips (counting those both to and from the construction site). To the extent feasible, the plan shall denote haul routes that do not pass sensitive land uses or residential dwellings. Lastly, the construction-related noise mitigation plan shall incorporate any other restrictions imposed by the City.

(City of Antioch 2003a)

### 3.2.2 City of Antioch Code of Ordinances<sup>2</sup>

Article 19 "Noise Attenuation Requirements", Section 9-5.1901 "Noise Attenuation Requirements" provides the following noise attenuation requirements for proposed development.

- A. Stationary noise sources. Uses adjacent to outdoor living areas (e.g., backyards for single-family homes and patios for multifamily units) and parks shall not cause an increase in background ambient noise which will exceed 60 CNEL.
- B. Mobile noise sources.

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<sup>2</sup> [https://codelibrary.amlegal.com/codes/antioch/latest/antioch\\_ca/0-0-0-29353](https://codelibrary.amlegal.com/codes/antioch/latest/antioch_ca/0-0-0-29353), last accessed October 29, 2021.



- 1) Arterial and street traffic shall not cause an increase in background ambient noise which will exceed 60 CNEL.

D. Noise attenuation. The City may require noise attenuation measures be incorporated into a project to obtain compliance with this section. Measures outlined in the noise policies of the General Plan should be utilized to mitigate noise to the maximum feasible extent.

Section 5-17.04 “Heavy Construction Equipment Noise” states it shall be unlawful for any person to operate heavy construction equipment during the hours specified below:

- 1) On weekdays prior to 7:00 a.m. and after 6:00 p.m.
- 2) On weekdays within 300 feet of occupied dwelling space, prior to 8:00 a.m. and after 5:00 p.m.
- 3) On weekends and holidays, prior to 9:00 a.m. and after 5:00 p.m., irrespective of the distance from the occupied dwelling.

“Heavy Construction Equipment” is defined as equipment used in grading and earth moving, including diesel engine equipped machines used for that purpose, except pickup trucks of one ton or less.

“Operate” includes the starting, warming-up, and idling of heavy construction equipment engines or motors.

Section 5-17.05 “Construction Activity Noise” states it shall be unlawful for any person to be involved in construction activity during the hours specified below:

- 1) On weekdays prior to 7:00 a.m. and after 6:00 p.m.
- 2) On weekdays within 300 feet of occupied dwellings, prior to 8:00 a.m. and after 5:00 p.m.
- 3) On weekends and holidays, prior to 9:00 a.m. and after 5:00 p.m., irrespective of the distance from the occupied dwellings.

“Construction Activity” means the process or manner of constructing, building, refurbishing, remodeling or demolishing a structure, delivering supplies thereto and includes, but is not limited to, hammering, sawing, drilling, and other construction activities when the noise or sound therefrom can be heard beyond the perimeter of the parcel where such work is being performed. The term “Construction Activity” also includes the testing of any audible device such as a burglar or fire alarm or loudspeaker. “Construction Activity” does not include floor covering installation or painting when done with non-powered equipment.

(City of Antioch 2015b)

## 4.0 EXISTING NOISE ENVIRONMENT

### 4.1 SENSITIVE RECEPTORS

Some land uses are more tolerant of noise than others. For example, schools, hospitals, churches, and residences are considered to be more sensitive to noise intrusion than commercial or industrial activities. Ambient noise levels can also affect the perceived desirability or livability of a development.

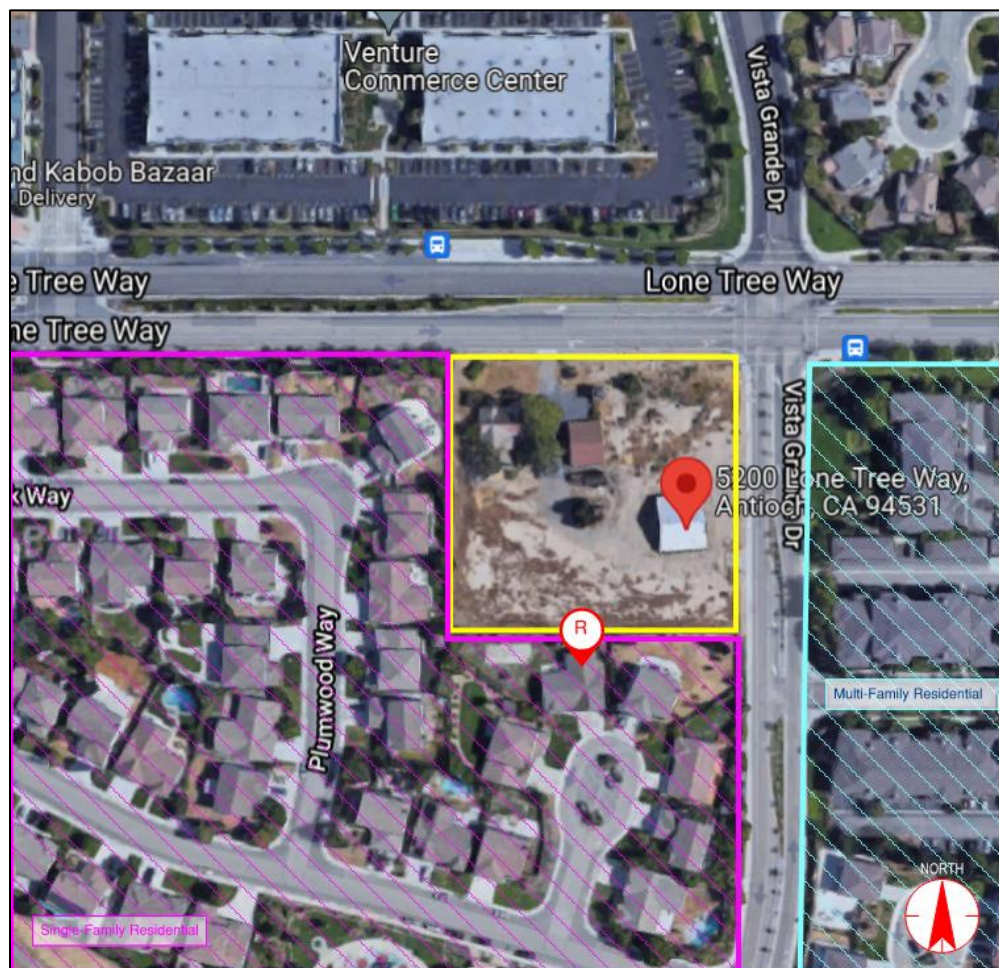


The project site is in southeast Antioch and is currently occupied by a single-story residential structure, a single-story barn structure, a single-story three car garage structure, two seartrain storage containers, two small sheds, and a domestic water tower structure. The rest of the project site consists of land utilized for vehicle and equipment storage for a paving company. The area surrounding the project site consists of commercial, office and residential uses.

As shown in Figure 2, the project site (within the yellow square) is on the southwest corner of Lone Tree Way and Vista Grande Drive. Land use across Lone Tree Way, north of the project site, consists of office and commercial uses. Land use across Vista Grande Drive, to the east of the site, consists of multi-family residential apartments (aqua hatched area in Figure 2). The project site is bordered by one- to two-story single family residential homes to the south and west. State Route 4 is located approximately 0.6 miles east of the project site.

The closest noise-sensitive receptors to the project site are the single-family residential homes along Plumwood Way and Hollowglen Court (pink hatched area in Figure 2). According to the April 19, 2021 Preliminary Not for Construction drawing set, the south edge of the project site will be as close as 16' from the residential home at 5002 Hollowglen Court (red pin in Figure 2).

**Figure 2: Project Site and Neighboring Sensitive Receptors**



## 4.2 EXISTING AMBIENT NOISE LEVELS

The existing noise environment in a project area is characterized by the area's general level of development because the level of development and ambient noise levels tend to be closely correlated. Areas that are not urbanized are typically relatively quiet, while areas that are more urbanized are noisier as a result of roadway traffic, industrial activities, and other human activities.

The City as a whole is exposed to noise generated by traffic on major freeways, such as SR 4, and to a lesser extent along major arterial roads, such as Lone Tree Way. The ambient noise levels at and around the 5200 Lone Tree Way gas station project were estimated using the published noise contours in Tables 4.9.C "Existing Traffic Noise" and 4.9.E "Projected Maximum Noise Contours at Build Out" in the Draft General Plan Update Environmental Impact Report for the City of Antioch. Table 4.9.C notes the following noise contour lines for Lone Tree Way south of James Donlon Boulevard:

- 70 dB(A) CNEL – 71' from the roadway centerline
- 65 dB(A) CNEL – 142' from the roadway centerline
- 60 dB(A) CNEL – 301' from the roadway centerline

Table 4.9.E lists the following future noise contours for arterial roadways:

- 70 dB(A) CNEL – 86' from the roadway centerline
- 65 dB(A) CNEL – 242' from the roadway centerline
- 60 dB(A) CNEL – 583' from the roadway centerline
- 55 dB(A) CNEL – 1,318' from the roadway centerline

The gas station project site is located 51' to 347' from the centerline of Lone Tree Way. Using Table 4.9.E in the draft EIR, ambient noise levels are estimated between 68 dB(A) to 71 dB(A). The residential home closest to Lone Tree Way is 114' from the roadway centerline. Estimated ambient noise levels from Lone Tree Way could be up to 69 dB(A) at the home. The single-family home at 5002 Hollowglen Court is about 362' from the centerline of Lone Tree Way. Estimated ambient noise levels at this home are around 63 dB(A).

Therefore, ambient noise levels at the project site should be at the 70 dB(A) CNEL level recommended for commercial/industrial sites in paragraph 11.6.1 "Noise Objective" in the City of Antioch General Plan. The ambient noise level at the existing residential homes may already be above the recommended 60 dB(A) CNEL level listed in the general plan.



## 5.0 METHODOLOGY FOR ANALYSIS

In accordance with the requirements of CEQA, the noise analysis evaluates the project's noise sources to determine the impact of the proposed project on the existing ambient noise environment. As noted above, noise contours listed in Table 4.9.E "Projected Maximum Noise Contours at Build Out" in the Draft General Plan Update Environmental Impact Report for the City of Antioch were used to provide baseline noise conditions at nearby sensitive receptors and within the project site vicinity. For the purpose of this analysis, potential sensitive receptors were determined by reviewing current aerial photography.

Impacts from future project-related traffic were estimated using the impact analysis contained within the traffic report, prepared by Stantec.

Noise from the project's mechanical systems would operate regularly and are therefore required to comply with the policies and restrictions listed in the General Plan and Code of Ordinances.

The Federal Highway Administration Roadway Construction Noise Model (RCNM) was used to estimate the impact from short-term construction activities. The RCNM is used as the Federal Highway Administration's national standard for predicting noise generated from construction. The RCNM analysis includes the calculation of noise levels at a defined distance for a variety of construction equipment. The spreadsheet inputs include acoustical use factors and distance to receptors and calculates the expected L<sub>max</sub> and L<sub>eq</sub> values at a selected receptor.

### 5.1 EPA GUIDELINES

The EPA has established guidelines (EPA 1973) for assessing the impact of an increase in noise levels. These guidelines have been used as industry standard for several years to determine the potential impact of noise increases on communities. Most people will tolerate a small increase in background noise (up to about 5 dB(A)) without complaint, especially if the increase is gradual over a period of years (such as from gradually increasing traffic volumes). Increases greater than 5 dB(A) may cause complaints and interference with sleep. Increases above 10 dB(A) (heard as a doubling of judged loudness) are likely to cause complaints and should be considered a serious increase. Table 6 defines each of the traditional impact descriptions, their quantitative range, and the qualitative human response to changes in noise levels.

**Table 1. U.S. Environmental Protection Agency (EPA) Impact Guidelines**

Increase over Existing or Baseline Sound Levels	Impact Per EPA Region Guidelines	Qualitative Human Perception of Difference in Sound Levels
0 decibels (dB) to 5 dB	Minimum Impact	Imperceivable or Slight Difference
6 dB to 10 dB	Significant Impact	Significant Noticeable Difference – Complaints Possible
Over 10 dB	Serious Impact	Loudness Changes by a Factor of Two or Greater. Clearly Audible Difference – Complaints Likely



## 6.0 ENVIRONMENTAL ANALYSIS

### 6.1 EXTERIOR TRAFFIC NOISE

The level of traffic noise experienced at a location depends primarily on traffic speed (tire noise increases with speed) and the proportion of truck traffic on the road. Trucks generate engine, exhaust, and wind noise in addition to tire noise.

Changes in traffic volumes can also have an impact on overall noise levels. For example, it takes 25 percent more traffic volume to produce an increase of only 1 dB(A) in the ambient noise level. For roads already heavy with traffic volume, an increase in traffic numbers could even reduce noise because the heavier volumes could slow down the average speed of the vehicles. A doubling of traffic volume results in a 3 dB(A) increase in noise levels.

In Section 3.17 “Transportation” in the initial study document, it is stated that the project does not conflict with the General Plan Circulation Element, any program plan, ordinance, or policy addressing the circulation system. The project does not propose to amend or adjust roadway classifications, the roadway network, transit routes, or bicycle network as identified in the General Plan. Since the project does not conflict with an applicable plan, ordinance, or policy establishing measures of effectiveness for the performance of the circulation system, the impact of noise produced from the traffic associated with this project is also anticipated to be less than significant.

### 6.2 INTERIOR TRAFFIC NOISE

CalGreen states if an occupied non-guestroom space is exposed to a noise level of 65 dB(A) Leq 1-hr during any hour of operation, the exterior façade design is required to incorporate features to reduce noise inside the spaces to a maximum of 50 dBA Leq 1-hr. Given the convenience store on the project site would be exposed to noise levels up to 71 dB(A) CNEL/Ldn, a 1-hour noise level of 65 dB(A) Leq or greater is possible, and the project would be required to comply with the CalGreen requirements.

The April 19, 2021 Preliminary Not for Construction drawing set shows a hard-surfaced floor, exposed metal deck ceiling, and about 562 square feet of exterior glazing in the front wall of the convenience store. Using these assumptions, windows with a minimum Outside-Inside Transmission Class (OITC) rating of OITC 20 would be required to help achieve the code-dictated maximum 50 dB(A) 1-hour Leq noise level. A typical 1” thick insulating glass unit constructed of ¼” glass – ½” airspace – ¼” glass has an expected rating of OITC 26. Therefore, standard construction should be acceptable for the convenience store to achieve the CalGreen code requirements and traffic noise levels would have a less than significant impact.

### 6.3 PROJECT FIXED-SOURCE AND OPERATIONAL NOISE

#### 6.3.1 Fixed-Source Noise

The roof plan contained in the April 19, 2021 Preliminary Not for Construction drawing set shows two rooftop units, one exhaust fan, and three condensing units on top of the convenience store.



There is also a car wash tunnel located on the east side of the convenience store. Vehicles will enter the car wash tunnel from the south and exit to the north. Typical car wash tunnels will have blowers at the end to dry cars as they exit the tunnel. The single-family residential homes along Plumwood Way should be well-shielded from the car wash tunnel by the convenience store and by an existing block wall at the property line of the project site. The multi-family residential units across Vista Grande Drive will experience shielding of noise from the car wash from the east wall of the car wash tunnel itself. The single-family residential homes around Hollowglen Court will be separated from the car wash tunnel by the existing block wall only.

Both the rooftop equipment and the car wash operation will generate noise that will radiate to the neighboring properties. The noise from this equipment would be obliged to comply with the requirements in Policy 11.6.2.e in the General Plan and the maximum noise level limits listed in Section 9-5.1901, Paragraph A in the City of Antioch Code of Ordinances.

When the actual on-site equipment is selected, including the car wash blowers, a noise analysis will be prepared by a qualified acoustical engineer and the equipment will be designed to incorporate measures as needed, such as shielding, barriers, and/or attenuators to reduce noise levels that may affect nearby properties. Noise levels from the project's fixed-source equipment will either be designed to achieve 60 dB(A) Ldn at the outdoor living areas of the existing residential receptors or will not cause an audible (3.0 dB(A)) increase in noise in areas where General Plan noise objectives are already exceeded as the result of existing development.

With the requirements listed in Policy 11.6.2.e in the General Plan and Section 9-5.1901, Paragraph A, the impact of fixed-source noise to the neighboring properties would be less than significant.

### **6.3.2 Operational Noise**

When the project is completed, noise will be generated from the operation of the new gas station, including parking lot activity, noise from gas pump kiosks, and potential background music. Noise from patrons visiting the convenience store would consist of driving to the store and parking lot activity. Noise from parking lot activity includes elements, such as car doors closing and conversation. These activities will be very short in duration and much quieter than the existing traffic experienced on the local roads. For example, from Table 2 above, normal conversation at 3 feet is 65 dB(A). The closest noise-sensitive receptors are about 85 feet away from the convenience store. Using distance attenuation of 6 dB per doubling of distance, normal conversation at the gas station would only be 36 dB(A) at the closest residential receptors and would be well below the noise level generated from current street traffic. Therefore, operation of the proposed project would have a less than significant impact on neighboring properties.

### **6.3.3 Trash Enclosure**

The April 19, 2021 Preliminary Not for Construction drawing set shows a trash enclosure located on the west side of the parking lot, approximately 106' from the closest residential receptors along Plumwood Way. The trash enclosure will be completely closed by concrete walls on the north, south, and west sides of the dumpsters to shield them from the neighboring residential homes.





Activity from garbage truck traffic and trash pickup would remain the same as currently experienced with the residential and commercial uses already around the project site and noise from trash pickup should have a less than significant impact.

## 6.4 SHORT TERM CONSTRUCTION NOISE

Two types of short-term noise impacts could occur during construction. The first type of short-term noise impact is traffic noise from construction crew vehicular commutes on the access roads leading to and from the project site. As stated in Section 3.17 “Transportation” in the initial study document, construction of the proposed project would generate traffic through the transport of workers, equipment, and materials to and from the project site. It is currently anticipated that project construction would take approximately 8 months to complete, starting in June 2022 and ending in January 2023. Construction equipment and materials would be stored onsite. Construction activities are anticipated to be mostly confined to the project site, but the construction of a turn lane into the Project site may require lane closures along Lone Tree Way. Project construction and grading activities would be consistent with the Antioch Municipal Code Section 5-17.05 and would occur on weekdays from 7:00 a.m. - 6:00 p.m., on weekdays within 300 feet of occupied dwellings, 8:00 a.m. - 5:00 p.m., and on weekends and holidays 9:00 a.m. - 5:00 p.m., irrespective of the distance from the occupied dwellings (City of Antioch 2020b). Since construction traffic would be temporary and would be spread across the duration of construction, this impact would be less than significant.

The second type of short-term noise impact is related to noise generated during construction. Construction activities would include demolition, site preparation, grading, building construction, paving, and architectural coating. Each construction stage has its own mix of equipment, and consequently, its own noise characteristics. The various construction operations would change the character of the noise generated at the project site and therefore, the noise level as construction progresses. The loudest stages of construction include the demolition, site preparation, and grading stages, as the noisiest construction equipment is typically earthmoving and grading equipment.

The construction of the 5200 Lone Tree Way United Pacific Gas Station project would be conducted in six stages and each stage will use different construction equipment. The main types of noise-producing equipment for each construction stage are shown in Table 7.

**Table 7. Construction Stage Equipment**

Construction Stage	Construction Equipment
Demolition	<ul style="list-style-type: none"> <li>• Concrete Saw</li> <li>• Rubber-Tired Dozer</li> <li>• Tractor</li> <li>• Front-End Loader</li> <li>• Backhoe</li> <li>• Haul Trucks (2)</li> </ul>
Site Preparation	<ul style="list-style-type: none"> <li>• Grader</li> <li>• Rubber-Tired Dozer</li> <li>• Tractor</li> </ul>
Grading	<ul style="list-style-type: none"> <li>• Grader</li> <li>• Rubber-Tired Dozer</li> <li>• Tractor</li> <li>• Front-End Loader</li> <li>• Haul Trucks (3)</li> </ul>



Construction Stage	Construction Equipment
Building Construction	<ul style="list-style-type: none"> <li>• Crane</li> <li>• Generator</li> <li>• Welders (3)</li> <li>• Forklift</li> <li>• Tractor</li> </ul>
Paving	<ul style="list-style-type: none"> <li>• Cement Mixer</li> <li>• Paver</li> <li>• Paving Equipment</li> <li>• Roller</li> <li>• Tractor</li> </ul>
Architectural Coating	<ul style="list-style-type: none"> <li>• Air Compressor</li> </ul>

Table 8 lists the types of construction equipment and the maximum and average operational noise level as measured at 16', 36', and 85' from the operating equipment. The 16' distance represents the approximate closest distance between the south edge of the project site and the closest noise-sensitive receptor at 5002 Hollowglen Court. The 16' distance would be applicable during the Demolition, Site Preparation, and Grading stages of construction. The 36' distance is the estimated closest distance between the paving work and the residence at 5002 Hollowglen Court. The 85' distance is the approximate closest distance between the closest residential receptor and the building construction and architectural coating work.

**Table 8. Summary of Construction Equipment Source Levels**

Construction Equipment Source at the Project Site	Distance to Nearest Sensitive Receptor	Sound Level at Receptor		
		Lmax, dB(A)	Acoustical Use Factor (%)	Leq, dB(A)
Backhoe	16 feet	87.5	40	83.5
	36 feet	80.4		76.4
	85 feet	73.0		69.0
Crane	16 feet	90.4	16	82.5
	36 feet	83.4		75.4
	85 feet	75.0		68.0
Compressor (air)	16 feet	87.6	40	83.6
	36 feet	80.5		76.5
	85 feet	73.1		69.1
Concrete Mixer	16 feet	88.7	40	84.7
	36 feet	81.7		77.7
	85 feet	74.2		70.2
Concrete Saw	16 feet	99.5	20	92.5
	36 feet	92.4		85.4
	85 feet	85.0		78.0
Dozer	16 feet	91.6	40	87.6
	36 feet	84.5		80.5
	85 feet	77.1		73.1



Construction Equipment Source at the Project Site	Distance to Nearest Sensitive Receptor	Sound Level at Receptor		
		Lmax, dB(A)	Acoustical Use Factor (%)	Leq, dB(A)
Forklift (Gradall)	16 feet	93.3	40	89.3
	36 feet	86.3		82.3
	85 feet	78.8		74.8
Front End Loader	16 feet	89.0	40	85.0
	36 feet	82.0		78.0
	85 feet	74.5		70.5
Generator	16 feet	90.5	50	87.5
	36 feet	83.5		80.5
	85 feet	76.0		73.0
Grader	16 feet	94.9	40	90.9
	36 feet	87.9		83.9
	85 feet	80.4		76.4
Haul Truck	16 feet	86.4	40	82.4
	36 feet	79.4		75.4
	85 feet	71.9		67.9
Paver and Paving Equipment	16 feet	87.1	50	84.1
	36 feet	80.1		77.1
	85 feet	72.6		69.6
Roller	16 feet	89.9	20	82.9
	36 feet	82.9		75.9
	85 feet	75.4		68.4
Tractor	16 feet	93.9	40	89.9
	36 feet	86.9		82.9
	85 feet	79.4		75.4
Welder	16 feet	83.9	40	79.9
	36 feet	76.9		72.9
	85 feet	69.4		65.4

Source: Federal Highway Administration Road Construction Noise Model v1.1 2018

A worst-case condition for construction activity would assume all noise-generating equipment were operating at the same time and at the same distance from the closest noise-sensitive receptor. Using this assumption, the RCNM program calculated the following combined Leq and Lmax noise levels from each stage of construction as shown in Table 9.



**Table 9. Calculated Noise Level from Each Construction Stage**

Construction Phase	Distance to Closest Noise Sensitive Receptor (feet)	Calculated Maximum Sound Level in A-Weighted Decibels	Calculated Equivalent Sound Level in A-Weighted Decibels
Demolition	16 feet	101.8	96.3
Site Preparation	16 feet	98.4	94.5
Grading	16 feet	99.6	95.6
Building Construction	85 feet	84.3	80.1
Paving	36 feet	90.2	85.9
Architectural Coating	85 feet	73.1	69.1

Although noise levels from construction could exceed the 60-65 dB(A) land use compatibility level for residential properties as defined by the General Plan (Antioch 2003a), increases in noise levels from construction activity would be temporary. All construction activities at the site would also follow the time and noise reduction measure requirements listed in Policies 11.6.2.i, j, k, m, and n in the General Plan and Sections 5-17.04 and 5-17.05 in the City of Antioch Code of Ordinances (Antioch 2015b) as follows:

- i. Ensure that construction activities are regulated as to hours of operation in order to avoid or mitigate noise impacts on adjacent noise-sensitive land uses.
- j. Require proposed development adjacent to occupied noise sensitive land uses to implement a construction-related noise mitigation plan. This plan would depict the location of construction equipment storage and maintenance area, and document methods to be employed to minimize noise impacts on adjacent noise sensitive land uses.
- k. Require that all construction equipment utilize noise reduction features (e.g., mufflers and engine shrouds) that are no less effective than those originally installed by the manufacturer.
- m. Prior to the issuance of any grading plans, the City shall condition approval of subdivisions and non-residential development adjacent to any developed/occupied noise-sensitive land uses by requiring applicants to submit a construction-related noise mitigation plan to the City for review and approval. The plan should depict the location of construction equipment and how the noise from this equipment will be mitigated during construction of the project through the use of such methods as:
  - The construction contractor shall use temporary noise-attenuation fences, where feasible, to reduce construction noise impacts on adjacent noise sensitive land uses.
  - During all project site excavation and grading on-site, the construction contractors shall equip all construction equipment, fixed or mobile, with properly operating and maintained mufflers, consistent with manufacturers' standards. The construction contractor shall place all stationary construction equipment so that emitted noise is directed away from sensitive receptors nearest the project site.



- The construction contractor shall locate equipment staging in areas that will create the greatest distance between construction-related noise sources and noise-sensitive receptors nearest the project site during all project construction.
  - The construction contractor shall limit all construction-related activities that would result in high noise levels to between the hours of 7:00 a.m. and 7:00 p.m. Monday through Saturday. No construction shall be allowed on Sundays and public holidays.
- n. The construction-related noise mitigation plan required shall also specify that haul truck deliveries be subject to the same hours specified for construction equipment. Additionally, the plan shall denote any construction traffic haul routes where heavy trucks would exceed 100 daily trips (counting those both to and from the construction site). To the extent feasible, the plan shall denote haul routes that do not pass sensitive land uses or residential dwellings. Lastly, the construction-related noise mitigation plan shall incorporate any other restrictions imposed by the City.

Section 5-17.04 “Heavy Construction Equipment Noise” and Section 5-17.05 “Construction Activity Noise” states it shall be unlawful for any person to operate heavy construction equipment or be involved in construction activity during the hours specified below:

- 1) On weekdays prior to 7:00 a.m. and after 6:00 p.m.
- 2) On weekdays within 300 feet of occupied dwelling space, prior to 8:00 a.m. and after 5:00 p.m.
- 3) On weekends and holidays, prior to 9:00 a.m. and after 5:00 p.m., irrespective of the distance from the occupied dwelling.

In conclusion, construction noise would be short-term and intermittent. Furthermore, the implementation of the mitigation measures and hours restrictions as dictated by the City would reduce construction noise to the closest noise-sensitive receptors to the extent feasible. Therefore, impacts from construction noise would be less than significant with mitigation.

## 6.5 GROUNDBORNE VIBRATION

During construction of the proposed project, equipment such as trucks and bulldozers may be used as close as 16 feet from the nearest sensitive receptor at 5002 Hollowglen Court. Rollers may be used as close as 36 feet from the nearest residential property. Equipment used during project construction could generate vibration levels between 0.0124 and 0.1738 PPV as shown below in Table 10. Although vibration levels from construction could exceed the threshold at which human annoyance could occur, construction activities would be temporary and would be limited to the hours restrictions set in the City of Antioch General Plan and Municipal Code.

All estimated construction vibration levels are expected to be below the limit for building damage as defined by Table 4.



**Table 10. Calculated Vibration Levels for Construction Equipment**

Type of Equipment	Calculated Peak Particle Velocity at Closest Noise-Sensitive Receptor	Threshold at which Human Annoyance Could Occur	Potential for Proposed Project to Exceed Threshold
Large Bulldozer	0.1738	0.10	Yes
Loaded Trucks	0.1484	0.10	Yes
Small Bulldozer	0.1215	0.10	Yes
Vibratory Roller	0.0124	0.10	None

Source: Federal Transit Administration Transit Noise and Vibration Impact Assessment Manual (FTA 2018)

Construction activities would again be temporary in nature and would likely occur during normal daytime working hours. The Federal Transit Administration offers the following construction vibration mitigation measures listed in Section 7.2 “Construction Vibration Assessment” in the Transit Noise and Vibration Impact Assessment Manual document (FTA Report No. 0123 September 2018).

#### Design Considerations and Project Layout

- Route heavily loaded trucks away from residential streets. Select streets with the fewest homes if no alternatives are available.
- Operate earth-moving equipment on the construction lot as far away from vibration-sensitive sites as possible.

#### Sequence of Operations

- Phase demolition, earth-moving, and ground-impacting operations so as not to occur in the same time period. Unlike noise, the total vibration level produced could be substantially less when each vibration source operates separately.
- Avoid nighttime activities. Sensitivity to vibration increases during the nighttime hours in residential neighborhoods.

#### Alternate Construction Methods

- Avoid vibratory rollers and packers near sensitive areas.

#### Vibration Mitigation Plan

- Describe and commit to a mitigation plan that will be developed and implemented during the engineering and construction phase when the information available during the project development phase will not be sufficient to define specific construction vibration mitigation measures. The objective of the plan should be to minimize construction vibration damage using all reasonable and feasible means available. The plan should include the following components:
  - A procedure for establishing threshold and limiting vibration values for potentially affected structures, based on an assessment of each structure’s ability to withstand the loads and displacements due to construction vibrations.



- A commitment to develop a vibration monitoring plan during the engineering phase and to implement a compliance monitoring program during construction.

Implementation of the recommendations provided by the FTA would make construction vibration impacts less than significant with mitigation incorporated.

## 7.0 CONCLUSION

Noise generation associated with the proposed project is typically attributed to project construction activities. Operational noise generation can be attributed to marginally greater noise from the patrons of the convenience store as well as from typical commercial fixed rooftop and carwash mechanical equipment.

Based on the FHWA RCNM, the proposed project can generate high levels of construction noise which are temporary and would not result in long-term noise increases from construction. While the noise levels presented are a “worst-case” scenario and may at times be audible over traffic-related noise levels surrounding the area, these high levels are not expected to be continuous. Moreover, the highest noise levels would occur only during the hours allowed by the City of Antioch restrictions and should be reduced by the application of measures to control construction noise and vibration at the project site. Noise and vibration control techniques should be implemented to ensure noise and vibration generated from temporary construction activities would not be substantial at nearby sensitive receptors.

The new gas station and convenience store at 5200 Lone Tree Way would follow all requirements of the City of Antioch General Plan and the City of Antioch Code of Ordinances and would incorporate appropriate mitigation measures to limit construction noise and vibration to the neighboring noise-sensitive receptors. Therefore, the project would have a less than significant impact on the surrounding neighborhood.







## 8.0 REFERENCES

Federal Highway Administration. 2006. Construction Noise Handbook. Website:  
[http://www.fhwa.dot.gov/environment/noise/construction\\_noise/handbook/](http://www.fhwa.dot.gov/environment/noise/construction_noise/handbook/). Last Accessed October 29, 2021.

Federal Transit Administration "Transit Noise and Vibration Impact Assessment". Website  
[https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/FTA\\_Noise\\_and\\_Vibration\\_Manual.pdf](https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/FTA_Noise_and_Vibration_Manual.pdf), Last Accessed October 29, 2021.

Egan, David M. Architectural Acoustics. J. Ross Pub., Pub 2007

California Department of Transportation. 2013. Technical Noise Supplement to the Traffic Noise Analysis Protocol. Website: [http://www.dot.ca.gov/hq/env/noise/pub/TeNS\\_Sept\\_2013B.pdf](http://www.dot.ca.gov/hq/env/noise/pub/TeNS_Sept_2013B.pdf). Last Accessed October 29, 2021.

California Department of Transportation. 2004. Transportation-and Construction-Induced Vibration Guidance Manual. 2004. Website: <http://www.dot.ca.gov/hq/env/noise/pub/vibrationmanFINAL.pdf>. Last Accessed October 29, 2021.

Federal Highway Administration. 2011. Highway Traffic Noise. Website:  
[http://www.fhwa.dot.gov/environment/noise/noise\\_barriers/design\\_construction/keepdown.cfm](http://www.fhwa.dot.gov/environment/noise/noise_barriers/design_construction/keepdown.cfm). Last Accessed October 29, 2021.

United States Environmental Protection Agency document EPA 550/9-79-100, "Protective Noise Levels Condensed Version of EPA Levels Document, November 1978.



Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 10/29/2021  
 Case Description: 5200 Lone Tree Way - Demolition

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
5002 Hollowglen Court	Residential	60	60	60

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Saw	No	20		89.6	16	0
Dozer	No	40		81.7	16	0
Tractor	No	40	84		16	0
Front End Loader	No	40		79.1	16	0
Backhoe	No	40		77.6	16	0
Haul Truck	No	40		76.5	16	0
Haul Truck	No	40		76.5	16	0

Results

Calculated (dBA)

Equipment	Lmax	Leq
Concrete Saw	99.5	92.5
Dozer	91.6	87.6
Tractor	93.9	89.9
Front End Loader	89	85
Backhoe	87.5	83.5
Haul Truck	86.4	82.4
Haul Truck	86.4	82.4
<b>Total</b>	<b>101.8</b>	<b>96.3</b>

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 10/29/2021  
 Case Description: 5200 Lone Tree Way - Site Preparation

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
5002 Hollowglen Court	Residential	60	60	60

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Grader	No	40	85		16	0
Dozer	No	40		81.7	16	0
Tractor	No	40	84		16	0

Results

Equipment	Calculated (dBA)	
	Lmax	Leq
Grader	94.9	90.9
Dozer	91.6	87.6
Tractor	93.9	89.9
<b>Total</b>	<b>98.4</b>	<b>94.5</b>

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 10/29/2021  
 Case Description: 5200 Lone Tree Way - Grading

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
5002 Hollowglen Court	Residential	60	60	60

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Grader	No	40	85		16	0
Dozer	No	40		81.7	16	0
Tractor	No	40	84		16	0
Front End Loader	No	40		79.1	16	0
Haul Truck	No	40		76.5	16	0
Haul Truck	No	40		76.5	16	0
Haul Truck	No	40		76.5	16	0

Results

Calculated (dBA)

Equipment	Lmax	Leq
Grader	94.9	90.9
Dozer	91.6	87.6
Tractor	93.9	89.9
Front End Loader	89	85
Haul Truck	86.4	82.4
Haul Truck	86.4	82.4
Haul Truck	86.4	82.4
<b>Total</b>	<b>99.6</b>	<b>95.6</b>

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 10/29/2021  
 Case Description: 5200 Lone Tree Way - Building Construction

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
5002 Hollowglen Court	Residential	60	60	60

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	85	0
Gradall	No	40		83.4	85	0
Generator	No	50		80.6	85	0
Tractor	No	40	84		85	0
Welder / Torch	No	40		74	85	0
Welder / Torch	No	40		74	85	0
Welder / Torch	No	40		74	85	0

Results

Calculated (dBA)

Equipment	Lmax	Leq
Crane	75.9	68
Gradall	78.8	74.8
Generator	76	73
Tractor	79.4	75.4
Welder / Torch	69.4	65.4
Welder / Torch	69.4	65.4
Welder / Torch	69.4	65.4
<b>Total</b>	<b>84.3</b>	<b>80.1</b>

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 10/29/2021  
 Case Description: 5200 Lone Tree Way - Paving

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
5002 Hollowglen Court	Residential	60	60	60

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	36	0
Paver	No	50		77.2	36	0
Paver	No	50		77.2	36	0
Roller	No	20		80	36	0
Tractor	No	40	84		36	0

Results

Calculated (dBA)

Equipment	Lmax	Leq
Concrete Mixer Truck	81.7	77.7
Paver	80.1	77.1
Paver	80.1	77.1
Roller	82.9	75.9
Tractor	86.9	82.9
<b>Total</b>	<b>90.2</b>	<b>85.9</b>

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 10/29/2021  
 Case Description: 5200 Lone Tree Way - Architectural Coating

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
5002 Hollowglen Court	Residential	60	60	60

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	85	0

Results

Equipment	Calculated (dBA)	
	Lmax	Leq
Compressor (air)	73.1	69.1
<b>Total</b>	<b>73.1</b>	<b>69.1</b>