

Appendix A: Air Quality and GHG Supporting Information

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Appendix A: Air Quality and GHG Supporting Information

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731 W Cutting Blvd Project CalEEMod Notes

Note 1. For the 2030 operational models, PG&E's 2030 CO₂ intensity factor is derived from an assumed 2030 power mix based on equal proportions of generation sources in 2019. The only factor that has been uniquely adjusted for 2030 is the change of eligible renewable energy sources total proportion from 33% to 60% to comply with Senate Bill 100's 2030 performance goals. Based on known factors for PG&E's 2019 CO₂ intensity factor, a proximate CO₂ intensity factor of 184 pounds per megawatt-hour delivered was identified for 2030. Please see PG&E Intensity Factors in this Appendix for more information.

For the 2030 operational models, all construction factors were reduced to zero to isolate the operational emissions.

Note 2. Land uses and sizes associated with development of the proposed project are drawn from information provided by the Project Applicant, dated August 3, 2021, as well as the following site plan(s):

- Duke Realty, Overall Site Plan, dated 4/30/2021

Land uses utilized in the models represent the following:

Industrial > Unrefrigerated Warehouse-No Rail > 143.958 x 1000sqft = Proposed Warehouse.

Parking > Parking Lot > 101.18 x 1000 sqft = proposed parking areas, including asphalt pavement and parking stalls.

Parking > Other Non-Asphalt Surfaces > 37.46 x 1000sqft = proposed concrete loading docks.

Recreation > City Park > 1.05 x Acre = proposed landscaping.

Commercial > General Office Building > 9.6 x 1000 sqft = proposed office space inside warehouse building.

It's important to note that the project description identifies 7.94 acres, however, the area of disturbance of the project totals 7.67 acres. Therefore, the land use described above totals 7.67 acres.

Note 3. According to information provided by the Project Applicant, project construction is anticipated to begin in January 2022 and end in January 2023, 5 days per week. CalEEMod default construction activity dates and durations were adjusted to reflect this information. In addition, due to the lack of information regarding anticipated equipment use, underground utilities installation is assumed to consist of the operation of 1 backhoe for 8 hours per and 1 excavator for 8 hours per day.

Note 4. According to RFI from the Project Applicant, approximately 18,000 cubic yards of soil would be imported during grading activities.

All 4 existing buildings and site pavement are assumed to be hauled off-site during demolition activities. According to applicant-provided information, the 4 existing buildings total 37,278 square feet and the site pavement totals approximately 279,662 square feet.

Therefore, demolition activities would generate approximately 12,211 tons to be hauled off-site.

- Note 5. Hexagon Transportation Consultants, Inc. prepared a Transportation Analysis (TA) for the proposed project that analyzes the vehicle trip generation for the proposed project. The TA illustrates that at full buildout, the proposed project would generate an estimated 28 daily truck trips and 993 daily passenger vehicle trips. Default travel distances for passenger vehicles were utilized in the model; however, the anticipated port of product origin for truck trips would be the Port of Oakland, approximately 14 miles away. As such, the operational models were adjusted to reflect this information for truck trips generated by the proposed project.

The fleet mix for the proposed project was adjusted to reflect 100 percent of truck trips as classified under the Heavy Heavy-Duty (HHD) vehicle class and 100 percent of passenger vehicle trips as classified under the Light-Duty Auto (LDA), Light-Duty Truck Type 1 (LDT1), Light-Duty Truck Type 2 (LDT2), and Medium-Duty Vehicle (MDV) vehicle classes, according to their respective fleet proportions found in the California Air Resources Board's (ARB) EMFAC2017 database for the first year of full buildout (2023). Please refer to the Fleet Mix Adjustment sheet found in this Appendix for more information.

- Note 6. BAAQMD *Basic Construction Mitigation Measures Recommended For All Proposed Projects* were applied to all construction models, which would be required under MM AIR-2a to ensure that the proposed project would result in a less-than-significant impact related to fugitive dust emissions during construction. This includes watering exposed areas at minimum twice per day and limiting construction vehicle speeds to 15 miles per hour on unpaved roads.

Operational Fleet Mix - Contra Costa County CalEEMod Default Fleet Mix Adjustments

Transportation Analysis Fleet Mix: ¹			
Trucks	28	ADT	2.74%
Passenger Vehicles	993	ADT	97.26%
Total	1,021	ADT	100%

<i>Project Fleet Mix Adjustments</i>		
Passenger Vehicle Classes	Fleet Mix Proportion ²	Adjusted Fleet Mix Proportions
LDA	0.558086	0.60363
LDT1	0.056127	0.06071
LDT2	0.18057	0.19531
MDV	0.129764	0.14035
<i>Total</i>	<i>0.924547</i>	<i>1</i>
 Truck Vehicle Classes		
HHD	0.007028	1

Notes/Sources:

¹ Hexagon Transportation Consultants. 2021. 731 W. Cutting Boulevard Transportation Analysis. September 28.

² California Air Pollution Control Officers Association (CAPCOA). 2021. California Emissions Estimator Model (CalEEMod), Version 2020.4.0.35.

Demolition Debris Calculations

Parameters ¹			
1	building sf	10	cf building volume
1	cf building volume	0.25	cf waste volume
1	cf	0.037	cy
1	cy waste volume	0.5	ton waste weight
1	sf	0.04625	ton waste material

Existing	Description	Square Feet ²	height/ depth (ft) ³	density (lbs/cf) ⁴	Demolition Weight (pounds)	Demolition Weight (tons)
Building gsf	Buildings	37,278				1,724.11
Hardscape	Pavement	279,662	0.5	150	20,974,650	10,487.33
Totals					20,974,650	12,211

Notes:

cy = cubic yard

gsf = gross square feet

sf = square feet

cf = cubic feet

Sources:

¹ California Air Pollution Control Officers Association (CAPCOA). 2017. Appendix A Calculation Details for CalEEMod. October.

² Square footage provided by project applicant, dated August 3, 2021.

³ DC Construction Services. 2017. How Thick Is Parking Lot Asphalt? Website: <https://dccpaving.com/how-thick-is-parking-lot-asphalt/>. Accessed October 19, 2021.

⁴ SFGate. 2019. How to Calculate Asphalt Weight Per Yard. Website: <https://homeguides.sfgate.com/calculate-asphalt-weight-per-yard-81825.html>. Accessed October 19, 2021.

Pacific Gas Electric CO₂ Intensity Factor - 2030 Adjustment

Table 1. PG&E's 2018 Power Content Label

Power Source	Percent of Total Mix
Eligible Renewable	27.4%
Fossil Fuel-Fired	0.0%
Nuclear	41.7%
Large Hydroelectric	30.9%
Other	0.0%
Non-Renewable Total	72.6%
Total	100%

Table 3. PG&E's Anticipated 2030 Power Content Label¹

Power Source	Percent of Total Mix
Eligible Renewable	60%
Fossil Fuel-Fired	12%
Nuclear	16%
Large Hydroelectric	11%
Other	0%
Non-Renewable Total	40%
Total	100%

Notes:

¹ Adjustment to 2030 power mix is based on equal proportions of generation sources in 2018. The only factor that has been uniquely adjusted is the change of eligible renewable energy sources total proportion from 27.4% to 60% to comply with Senate Bill 100's 2030 performance goals.

² PG&E's total CO₂ emission intensity factor of 206 lbs/MWh and CO₂ emission intensity factor specifically for fossil fuel-fired generation sources of 898 lbs/MWh were identified in PG&E's 2020 Corporate Responsibility and Sustainability Report; however, the CO₂ emission intensity factor for other non-renewable sources were unknown. Therefore, the 2019 CQ emission intensity factor for all other non-renewable generation sources were identified based on the given overall 206 lbs/MWh and fossil fuel-fired 898 lbs/MWh values and the 2019 power content label using a convex combination equation. PG&E generation sources are identified in PG&E's Reports as nuclear, hydroelectric, fossil fuel-fired, and eligible renewable. Due to the lack of detailed information, nuclear and hydroelectric source were assumed to be equal, having an unweighted average CO₂ intensity factor of the provided 284 lbs/MWh. Eligible renewable sources were assumed to generate 0 lbs CO₂/MWh.

³ PG&E's 2030 CO₂ emission intensity factor is based on equal proportions of renewable and non-renewable generation sources in 2019, as seen in Table 3. The only factor that was uniquely adjusted was the change of eligible renewable energy sources total proportion from 27.4% to 60% to comply with Senate Bill 100's 2030 performance goals. The CQ emission intensity factor is the weighted average using the adjusted renewable generation proportion (see Table 3) and the identified owned source intensity factors for 2019 (see Table 2).

Table 2. PG&E's 2018 CO₂ Intensity Factors²

Power Source	Individual Intensity Factors (lbs CO ₂ /MWh)
Eligible Renewable	0
Fossil Fuel-Fired	898
Nuclear	284
Large Hydroelectric	284
Other	N/A
Weighted Average	206

Table 4. PG&E's 2030 CO₂ Intensity Factors³

Power Source	Individual Intensity Factors (lbs CO ₂ /MWh)
Eligible Renewable	0
Fossil Fuel-Fired	898
Nuclear	284
Large Hydroelectric	284
Other	N/A
Weighted Average	184

Project Construction Emissions

Model File: 731 W. Cutting Blvd - Contra Costa County, Annual

Timestamp: Date: 10/17/2021 9:41 AM

Annual Construction Emissions (tons)

Year	Activity	ROG	NO _x	PM ₁₀ (Exhaust)	PM _{2.5} (Exhaust)
	on site	0.03	0.26	0.01	0.01
	off site	0.01	0.17	0.00	0.00
2022	Demolition	0.03	0.43	0.01	0.01
	on site	0.01	0.16	0.01	0.01
	off site	0.01	0.19	0.00	0.00
2022	Rough Grading	0.02	0.35	0.01	0.01
	on site	0.01	0.10	0.01	0.00
	off site	0.00	0.00	0.00	0.00
2022	Underground Utilities	0.01	0.10	0.01	0.00
	on site	0.16	1.50	0.08	0.07
	off site	0.05	0.33	0.00	0.00
2022	Building Construction	0.21	1.83	0.08	0.08
	on site	0.01	0.14	0.01	0.01
	off site	0.00	0.00	-	-
2022	Finish Grading	0.01	0.14	0.01	0.01
	on site	0.01	0.09	0.00	0.00
	off site	0.00	0.00	0.00	0.00
2022	Paving	0.01	0.09	0.00	0.00
	on site	0.51	0.02	0.00	0.00
	off site	0.00	0.00	0.00	0.00
2022	Architectural Coating	0.51	0.02	0.00	0.00
	on site	0.32	0.01	0.00	0.00
	off site	0.00	0.00	0.00	0.00
2023	Architectural Coating	0.33	0.01	0.00	0.00
	Total On Site	1.08	2.28	0.12	0.11
	Total Off Site	0.06	0.70	0.01	0.01

*Note: All zeros displayed in the above table represent emission values which are below 0.005 tons per year and have subsequently rounded down. All true zero values are represented with "-".

Average Daily Construction Emissions (lbs/day)

Parameter	ROG	NO _x	PM ₁₀ (Exhaust)	PM _{2.5} (Exhaust)
Total Emissions (tons)	1.14	2.97	0.12	0.11
Total Emissions (lbs)	2,280	5,950	245	230
Average Daily Emissions (lbs/day)¹	8	21	1	1
BAAQMD Significance Thresholds	54	54	82	54
Project Construction Exceeds Threshold?	No	No	No	No

Notes:

1. Total emissions (lbs) are divided by the total nonoverlapping construction workdays (281 days).

Net Annual Operational Emissions Summary

Existing Operations - Annual Emissions

731 W. Cutting Blvd Existing Land Uses - Contra Costa County, Annual

Date: 10/17/2021 9:46 AM

CalEEMod Run: Annual.

Emissions Source	Tons per Year			
	ROG	NO _x	PM ₁₀ (Total)	PM _{2.5} (Total)
Area	0.19	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00
Mobile	0.03	0.04	0.07	0.02
Waste	-	-	-	-
Water	-	-	-	-
Annual Total	0.22	0.04	0.07	0.02

Note: All zeros displayed in the above table represent emission values which are below 0.005 tons per year and have subsequently rounded down. All true zero values are represented with "-".

Project Operations - Annual Emissions

731 W. Cutting Blvd - Contra Costa County, Annual

Date: 10/17/2021 9:41 AM

CalEEMod Run: Annual.

Emissions Source	Tons per Year			
	ROG	NO _x	PM ₁₀ (Total)	PM _{2.5} (Total)
Area	0.69	0.00	0.00	0.00
Energy	0.00	0.01	0.00	0.00
Mobile	0.26	0.77	1.13	0.31
Waste	-	-	-	-
Water	-	-	-	-
Annual Total	0.95	0.78	1.14	0.31

Note: All zeros displayed in the above table represent emission values which are below 0.005 tons per year and have subsequently rounded down. All true zero values are represented with "-".

Total Operational Emissions (Annual)

Emissions Source	Tons per Year			
	ROG	NO _x	PM ₁₀ (Total)	PM _{2.5} (Total)
Existing Annual Total	0.22	0.04	0.07	0.02
Project Annual Total	0.95	0.78	1.14	0.31
Net Annual Emissions	0.73	0.74	1.06	0.29
BAAQMD Significance Thresholds - Annual	10	10	15	10
Project Exceeds Annual Threshold?	No	No	No	No

Total Operational Emissions (Average Daily)

Emissions Source	Average Pounds per Day			
	ROG	NO _x	PM ₁₀ (Total)	PM _{2.5} (Total)
Average Daily Emissions	4	4	6	2
BAAQMD Significance Thresholds	54	54	82	54
Project Exceeds Annual Threshold?	Yes	Yes	No	No

Note: Average daily emissions are identified by multiplying the annual emission tonnage by 2,000 pounds and dividing by the total number of operational days per year (365).

Net Annual GHG Emissions

Construction Summary - Annual GHG Emissions

731 W. Cutting Blvd - Contra Costa County, Annual

Date: 10/17/2021 9:41 AM

Construction Activity	MT CO ₂ e
Demolition	102
Rough Grading	94
Underground Utilities	23
Building Construction	427
Finish Grading	18
Paving	18
Architectural Coating	12
Annual Total	693
Amortized Over 30 Years	23

Note: All emissions were taken from the Mitigated model results to account for BAAQMD and City requirements.

Existing Operational GHG Emissions

731 W. Cutting Blvd Existing Land Uses - Contra Costa County, Annual

Date: 10/17/2021 9:46 AM

731 W. Cutting Blvd Existing Land Uses 2030 - Contra Costa County, Annual

Date: 10/17/2021 9:48 AM

Emission Source	Year 2023 (MT CO ₂ e/Year)			Year 2030 (MT CO ₂ e/Year)		
	Total CO ₂ e	Bio-CO ₂	NBio-CO ₂ e	Total CO ₂ e	Bio-CO ₂	NBio-CO ₂ e
Area	0	0	0	0	0	0
Energy	25	0	25	23	0	23
Mobile	63	0	63	51	0	51
Waste	18	7	11	18	7	11
Water	16	3	13	16	3	13
Total Operational Emissions	121	10	112	107	10	97

Note: All operational emissions were taken from the Mitigated model results to account for BAAQMD and City requirements. For GHG emissions, only non-biogenic CO₂e emissions are included in the project's operational GHG emissions, per BAAQMD's 2017 CEQA Air Quality Guidelines.

Proposed Project Operational GHG Emissions

731 W. Cutting Blvd - Contra Costa County, Annual

Date: 10/17/2021 9:41 AM

731 W. Cutting Blvd 2030 Operation - Contra Costa County, Annual

Date: 10/17/2021 9:43 AM

Emission Source	Year 2023 (MT CO ₂ e/Year)			Year 2030 (MT CO ₂ e/Year)		
	Total CO ₂ e	Bio-CO ₂	NBio-CO ₂ e	Total CO ₂ e	Bio-CO ₂	NBio-CO ₂ e
Area	0	0	0	0	0	0
Energy - Electricity	60	0	60	58	0	58
Energy - Natural Gas	15	0	15	21	0	21
Mobile (Vehicles)	1084	0	1084	683	0	683
Waste	73	29	43	73	29	43
Water	66	11	55	64	11	53
Total Project Operational Emissions	1299	41	1258	898	40	858
Total Existing Operational Emissions	121	10	112	107	10	97
Net Operational GHG Emissions	1177	31	1147	791	31	761

Note: All operational emissions were taken from the Mitigated model results to account for BAAQMD and City requirements. For GHG emissions, only non-biogenic CO₂e emissions are included in the project's operational GHG emissions, per BAAQMD's 2017 CEQA Air Quality Guidelines.

731 W. Cutting Blvd - Contra Costa County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**731 W. Cutting Blvd
Contra Costa County, Annual****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	4.00	1000sqft	0.00	4,000.00	0
Unrefrigerated Warehouse-No Rail	149.56	1000sqft	3.43	149,560.00	0
Other Non-Asphalt Surfaces	37.46	1000sqft	0.86	37,456.00	0
Parking Lot	101.18	1000sqft	2.32	101,180.00	0
City Park	1.05	Acre	1.05	45,815.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	5			Operational Year	2023
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 2

Construction Phase - Note 3

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

731 W. Cutting Blvd - Contra Costa County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - Note 3

Trips and VMT -

Demolition - Note 4

Grading - Note 4

Architectural Coating -

Vehicle Trips - Note 5

Construction Off-road Equipment Mitigation - Note 6

Fleet Mix - Note 5

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	54.00
tblConstructionPhase	NumDays	230.00	192.00
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	20.00	13.00
tblConstructionPhase	NumDays	20.00	16.00
tblFleetMix	HHD	7.0280e-003	0.00
tblFleetMix	HHD	7.0280e-003	1.00
tblFleetMix	LDA	0.56	0.60
tblFleetMix	LDA	0.56	0.00
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.18	0.20
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.4800e-003	0.00
tblFleetMix	LHD2	5.4800e-003	0.00
tblFleetMix A	MCY	0.03	0.00

731 W. Cutting Blvd - Contra Costa County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFleetMix	MCY	0.03	0.00
tblFleetMix	MDV	0.13	0.14
tblFleetMix	MDV	0.13	0.00
tblFleetMix	MH	3.4810e-003	0.00
tblFleetMix	MH	3.4810e-003	0.00
tblFleetMix	MHD	7.0160e-003	0.00
tblFleetMix	MHD	7.0160e-003	0.00
tblFleetMix	OBUS	5.5100e-004	0.00
tblFleetMix	OBUS	5.5100e-004	0.00
tblFleetMix	SBUS	1.2310e-003	0.00
tblFleetMix	SBUS	1.2310e-003	0.00
tblFleetMix	UBUS	3.4300e-004	0.00
tblFleetMix	UBUS	3.4300e-004	0.00
tblGrading	MaterialImported	0.00	18,000.00
tblLandUse	LandUseSquareFeet	37,460.00	37,456.00
tblLandUse	LandUseSquareFeet	45,738.00	45,815.00
tblLandUse	LotAcreage	0.09	0.00
tblVehicleTrips	CC_TL	7.30	14.00
tblVehicleTrips	CNW_TL	7.30	14.00
tblVehicleTrips	CW_TL	9.50	14.00
tblVehicleTrips	DV_TP	19.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	4.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	77.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	2.21	248.25

731 W. Cutting Blvd - Contra Costa County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	ST_TR	1.74	0.19
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	0.70	248.25
tblVehicleTrips	SU_TR	1.74	0.19
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	9.74	248.25
tblVehicleTrips	WD_TR	1.74	0.19

2.0 Emissions Summary**2.1 Overall Construction****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.8148	2.9607	2.8308	7.3900e-003	0.5098	0.1217	0.6315	0.1330	0.1141	0.2471	0.0000	673.6890	673.6890	0.0970	0.0401	688.0547
2023	0.3254	0.0142	0.0256	5.0000e-005	2.3300e-003	7.6000e-004	3.0900e-003	6.2000e-004	7.5000e-004	1.3700e-003	0.0000	4.4945	4.4945	2.1000e-004	5.0000e-005	4.5151
Maximum	0.8148	2.9607	2.8308	7.3900e-003	0.5098	0.1217	0.6315	0.1330	0.1141	0.2471	0.0000	673.6890	673.6890	0.0970	0.0401	688.0547

731 W. Cutting Blvd - Contra Costa County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	0.8148	2.9607	2.8308	7.3900e-003	0.3341	0.1217	0.4558	0.0883	0.1141	0.2024	0.0000	673.6886	673.6886	0.0970	0.0401	688.0543
2023	0.3254	0.0142	0.0256	5.0000e-005	2.3300e-003	7.6000e-004	3.0900e-003	6.2000e-004	7.5000e-004	1.3700e-003	0.0000	4.4945	4.4945	2.1000e-004	5.0000e-005	4.5151
Maximum	0.8148	2.9607	2.8308	7.3900e-003	0.3341	0.1217	0.4558	0.0883	0.1141	0.2024	0.0000	673.6886	673.6886	0.0970	0.0401	688.0543

	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	34.30	0.00	27.68	33.46	0.00	18.00	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	10-7-2021	1-6-2022	0.0665	0.0665
2	1-7-2022	4-6-2022	1.1077	1.1077
3	4-7-2022	7-6-2022	0.7390	0.7390
4	7-7-2022	10-6-2022	0.8697	0.8697
5	10-7-2022	1-6-2023	0.9906	0.9906
6	1-7-2023	4-6-2023	0.2773	0.2773
		Highest	1.1077	1.1077

731 W. Cutting Blvd - Contra Costa County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Area	0.6923	2.0000e-005	2.6900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.2400e-003	5.2400e-003	1.0000e-005	0.0000	5.5800e-003
Energy	1.5300e-003	0.0139	0.0117	8.0000e-005		1.0500e-003	1.0500e-003		1.0500e-003	1.0500e-003	0.0000	74.8644	74.8644	9.9600e-003	1.4500e-003	75.5451
Mobile	0.2604	0.7675	3.2776	0.0114	1.1252	9.2600e-003	1.1345	0.2996	8.6700e-003	0.3083	0.0000	1,065.0885	1,065.0885	0.0367	0.0608	1,084.1085
Waste						0.0000	0.0000		0.0000	0.0000	29.3119	0.0000	29.3119	1.7323	0.0000	72.6190
Water						0.0000	0.0000		0.0000	0.0000	11.1980	18.2174	29.4154	1.1531	0.0275	66.4420
Total	0.9543	0.7814	3.2920	0.0115	1.1252	0.0103	1.1355	0.2996	9.7300e-003	0.3094	40.5099	1,158.1756	1,198.6855	2.9320	0.0897	1,298.7201

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	0.6923	2.0000e-005	2.6900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.2400e-003	5.2400e-003	1.0000e-005	0.0000	5.5800e-003
Energy	1.5300e-003	0.0139	0.0117	8.0000e-005		1.0500e-003	1.0500e-003		1.0500e-003	1.0500e-003	0.0000	74.8644	74.8644	9.9600e-003	1.4500e-003	75.5451
Mobile	0.2604	0.7675	3.2776	0.0114	1.1252	9.2600e-003	1.1345	0.2996	8.6700e-003	0.3083	0.0000	1,065.0885	1,065.0885	0.0367	0.0608	1,084.1085
Waste						0.0000	0.0000		0.0000	0.0000	29.3119	0.0000	29.3119	1.7323	0.0000	72.6190
Water						0.0000	0.0000		0.0000	0.0000	11.1980	18.2174	29.4154	1.1531	0.0275	66.4420
Total	0.9543	0.7814	3.2920	0.0115	1.1252	0.0103	1.1355	0.2996	9.7300e-003	0.3094	40.5099	1,158.1756	1,198.6855	2.9320	0.0897	1,298.7201

	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

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	1/3/2022	1/28/2022	5	20	
2	Rough Grading	Grading	1/31/2022	2/18/2022	5	15	
3	Underground Utilities	Trenching	2/21/2022	5/13/2022	5	60	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4	Building Construction	Building Construction	2/21/2022	11/15/2022	5	192
5	Finish Grading	Grading	9/15/2022	10/3/2022	5	13
6	Paving	Paving	10/3/2022	10/24/2022	5	16
7	Architectural Coating	Architectural Coating	11/16/2022	1/30/2023	5	54

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 15****Acres of Paving: 3.18****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 230,342; Non-Residential Outdoor: 76,781; Striped Parking Area: 8,318 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Rough Grading	Excavators	1	8.00	158	0.38
Rough Grading	Graders	1	8.00	187	0.41
Rough Grading	Rubber Tired Dozers	1	8.00	247	0.40
Rough Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Underground Utilities	Excavators	1	8.00	158	0.38
Underground Utilities	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Finish Grading	Excavators	1	8.00	158	0.38

Appendix A

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Finish Grading	Graders	1	8.00	187	0.41
Finish Grading	Rubber Tired Dozers	1	8.00	247	0.40
Finish Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
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	15.00	0.00	2,026.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	6	15.00	0.00	2,250.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Underground Utilities	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	142.00	55.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Finish Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2022**Unmitigated Construction On-Site**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
Fugitive Dust					0.2192	0.0000	0.2192	0.0332	0.0000	0.0332	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	0.0264	0.2572	0.2059	3.9000e-004	0.2192	0.0124	0.2316	0.0332	0.0116	0.0447	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289

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	4.7100e-003	0.1733	0.0368	6.4000e-004	0.0172	1.5700e-003	0.0188	4.7200e-003	1.5000e-003	6.2200e-003	0.0000	63.4336	63.4336	2.0900e-003	0.0101	66.4816
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	3.0000e-004	3.6300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9554	0.9554	3.0000e-005	3.0000e-005	0.9645
Total	5.1300e-003	0.1736	0.0405	6.5000e-004	0.0184	1.5800e-003	0.0200	5.0400e-003	1.5100e-003	6.5400e-003	0.0000	64.3890	64.3890	2.1200e-003	0.0101	67.4461

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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					0.0987	0.0000	0.0987	0.0149	0.0000	0.0149	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0264	0.2572	0.2059	3.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289
Total	0.0264	0.2572	0.2059	3.9000e-004	0.0987	0.0124	0.1111	0.0149	0.0116	0.0265	0.0000	33.9902	33.9902	9.5500e-003	0.0000	34.2289

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	4.7100e-003	0.1733	0.0368	6.4000e-004	0.0172	1.5700e-003	0.0188	4.7200e-003	1.5000e-003	6.2200e-003	0.0000	63.4336	63.4336	2.0900e-003	0.0101	66.4816
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	3.0000e-004	3.6300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9554	0.9554	3.0000e-005	3.0000e-005	0.9645
Total	5.1300e-003	0.1736	0.0405	6.5000e-004	0.0184	1.5800e-003	0.0200	5.0400e-003	1.5100e-003	6.5400e-003	0.0000	64.3890	64.3890	2.1200e-003	0.0101	67.4461

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.3 Rough 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					0.0541	0.0000	0.0541	0.0258	0.0000	0.0258	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0146	0.1564	0.1146	2.2000e-004		7.0600e-003	7.0600e-003		6.4900e-003	6.4900e-003	0.0000	19.5411	19.5411	6.3200e-003	0.0000	19.6991
Total	0.0146	0.1564	0.1146	2.2000e-004	0.0541	7.0600e-003	0.0612	0.0258	6.4900e-003	0.0323	0.0000	19.5411	19.5411	6.3200e-003	0.0000	19.6991

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.2300e-003	0.1924	0.0409	7.1000e-004	0.0191	1.7400e-003	0.0208	5.2500e-003	1.6700e-003	6.9100e-003	0.0000	70.4470	70.4470	2.3200e-003	0.0112	73.8320
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	3.2000e-004	2.3000e-004	2.7300e-003	1.0000e-005	8.9000e-004	0.0000	9.0000e-004	2.4000e-004	0.0000	2.4000e-004	0.0000	0.7165	0.7165	2.0000e-005	2.0000e-005	0.7234
Total	5.5500e-003	0.1927	0.0436	7.2000e-004	0.0200	1.7400e-003	0.0217	5.4900e-003	1.6700e-003	7.1500e-003	0.0000	71.1635	71.1635	2.3400e-003	0.0112	74.5554

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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					0.0244	0.0000	0.0244	0.0116	0.0000	0.0116	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0146	0.1564	0.1146	2.2000e-004		7.0600e-003	7.0600e-003		6.4900e-003	6.4900e-003	0.0000	19.5411	19.5411	6.3200e-003	0.0000	19.6991
Total	0.0146	0.1564	0.1146	2.2000e-004	0.0244	7.0600e-003	0.0314	0.0116	6.4900e-003	0.0181	0.0000	19.5411	19.5411	6.3200e-003	0.0000	19.6991

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.2300e-003	0.1924	0.0409	7.1000e-004	0.0191	1.7400e-003	0.0208	5.2500e-003	1.6700e-003	6.9100e-003	0.0000	70.4470	70.4470	2.3200e-003	0.0112	73.8320
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	3.2000e-004	2.3000e-004	2.7300e-003	1.0000e-005	8.9000e-004	0.0000	9.0000e-004	2.4000e-004	0.0000	2.4000e-004	0.0000	0.7165	0.7165	2.0000e-005	2.0000e-005	0.7234
Total	5.5500e-003	0.1927	0.0436	7.2000e-004	0.0200	1.7400e-003	0.0217	5.4900e-003	1.6700e-003	7.1500e-003	0.0000	71.1635	71.1635	2.3400e-003	0.0112	74.5554

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.4 Underground Utilities - 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	0.0110	0.1036	0.1648	2.5000e-004		5.2800e-003	5.2800e-003		4.8600e-003	4.8600e-003	0.0000	21.8066	21.8066	7.0500e-003	0.0000	21.9829
Total	0.0110	0.1036	0.1648	2.5000e-004		5.2800e-003	5.2800e-003		4.8600e-003	4.8600e-003	0.0000	21.8066	21.8066	7.0500e-003	0.0000	21.9829

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	3.0000e-004	3.6300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9554	0.9554	3.0000e-005	3.0000e-005	0.9645
Total	4.2000e-004	3.0000e-004	3.6300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9554	0.9554	3.0000e-005	3.0000e-005	0.9645

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	0.0110	0.1036	0.1648	2.5000e-004		5.2800e-003	5.2800e-003		4.8600e-003	4.8600e-003	0.0000	21.8065	21.8065	7.0500e-003	0.0000	21.9829
Total	0.0110	0.1036	0.1648	2.5000e-004		5.2800e-003	5.2800e-003		4.8600e-003	4.8600e-003	0.0000	21.8065	21.8065	7.0500e-003	0.0000	21.9829

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	3.0000e-004	3.6300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9554	0.9554	3.0000e-005	3.0000e-005	0.9645
Total	4.2000e-004	3.0000e-004	3.6300e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9554	0.9554	3.0000e-005	3.0000e-005	0.9645

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.1638	1.4991	1.5709	2.5900e-003		0.0777	0.0777		0.0731	0.0731	0.0000	222.4562	222.4562	0.0533	0.0000	223.7886
Total	0.1638	1.4991	1.5709	2.5900e-003		0.0777	0.0777		0.0731	0.0731	0.0000	222.4562	222.4562	0.0533	0.0000	223.7886

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	0.0124	0.3009	0.0913	1.1300e-003	0.0347	3.3300e-003	0.0381	0.0100	3.1900e-003	0.0132	0.0000	110.3020	110.3020	2.4200e-003	0.0161	115.1485
Worker	0.0384	0.0276	0.3303	9.5000e-004	0.1081	5.7000e-004	0.1087	0.0288	5.3000e-004	0.0293	0.0000	86.8226	86.8226	2.7700e-003	2.5600e-003	87.6560
Total	0.0507	0.3285	0.4217	2.0800e-003	0.1429	3.9000e-003	0.1468	0.0388	3.7200e-003	0.0425	0.0000	197.1246	197.1246	5.1900e-003	0.0186	202.8045

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	0.1638	1.4991	1.5709	2.5900e-003		0.0777	0.0777		0.0731	0.0731	0.0000	222.4560	222.4560	0.0533	0.0000	223.7883
Total	0.1638	1.4991	1.5709	2.5900e-003		0.0777	0.0777		0.0731	0.0731	0.0000	222.4560	222.4560	0.0533	0.0000	223.7883

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	0.0124	0.3009	0.0913	1.1300e-003	0.0347	3.3300e-003	0.0381	0.0100	3.1900e-003	0.0132	0.0000	110.3020	110.3020	2.4200e-003	0.0161	115.1485
Worker	0.0384	0.0276	0.3303	9.5000e-004	0.1081	5.7000e-004	0.1087	0.0288	5.3000e-004	0.0293	0.0000	86.8226	86.8226	2.7700e-003	2.5600e-003	87.6560
Total	0.0507	0.3285	0.4217	2.0800e-003	0.1429	3.9000e-003	0.1468	0.0388	3.7200e-003	0.0425	0.0000	197.1246	197.1246	5.1900e-003	0.0186	202.8045

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.6 Finish 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					0.0460	0.0000	0.0460	0.0223	0.0000	0.0223	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0127	0.1356	0.0993	1.9000e-004		6.1200e-003	6.1200e-003		5.6300e-003	5.6300e-003	0.0000	16.9356	16.9356	5.4800e-003	0.0000	17.0725
Total	0.0127	0.1356	0.0993	1.9000e-004	0.0460	6.1200e-003	0.0522	0.0223	5.6300e-003	0.0279	0.0000	16.9356	16.9356	5.4800e-003	0.0000	17.0725

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	2.7000e-004	2.0000e-004	2.3600e-003	1.0000e-005	7.7000e-004	0.0000	7.8000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6210	0.6210	2.0000e-005	2.0000e-005	0.6269
Total	2.7000e-004	2.0000e-004	2.3600e-003	1.0000e-005	7.7000e-004	0.0000	7.8000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6210	0.6210	2.0000e-005	2.0000e-005	0.6269

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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					0.0207	0.0000	0.0207	0.0100	0.0000	0.0100	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0127	0.1356	0.0993	1.9000e-004		6.1200e-003	6.1200e-003		5.6300e-003	5.6300e-003	0.0000	16.9356	16.9356	5.4800e-003	0.0000	17.0725
Total	0.0127	0.1356	0.0993	1.9000e-004	0.0207	6.1200e-003	0.0268	0.0100	5.6300e-003	0.0157	0.0000	16.9356	16.9356	5.4800e-003	0.0000	17.0725

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	2.7000e-004	2.0000e-004	2.3600e-003	1.0000e-005	7.7000e-004	0.0000	7.8000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6210	0.6210	2.0000e-005	2.0000e-005	0.6269
Total	2.7000e-004	2.0000e-004	2.3600e-003	1.0000e-005	7.7000e-004	0.0000	7.8000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6210	0.6210	2.0000e-005	2.0000e-005	0.6269

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.7 Paving - 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	8.8200e-003	0.0890	0.1166	1.8000e-004		4.5400e-003	4.5400e-003		4.1800e-003	4.1800e-003	0.0000	16.0221	16.0221	5.1800e-003	0.0000	16.1516
Paving	3.0400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0119	0.0890	0.1166	1.8000e-004		4.5400e-003	4.5400e-003		4.1800e-003	4.1800e-003	0.0000	16.0221	16.0221	5.1800e-003	0.0000	16.1516

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	6.8000e-004	4.9000e-004	5.8200e-003	2.0000e-005	3.5500e-003	1.0000e-005	3.5600e-003	9.1000e-004	1.0000e-005	9.2000e-004	0.0000	1.5286	1.5286	5.0000e-005	5.0000e-005	1.5432
Total	6.8000e-004	4.9000e-004	5.8200e-003	2.0000e-005	3.5500e-003	1.0000e-005	3.5600e-003	9.1000e-004	1.0000e-005	9.2000e-004	0.0000	1.5286	1.5286	5.0000e-005	5.0000e-005	1.5432

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	8.8200e-003	0.0890	0.1166	1.8000e-004		4.5400e-003	4.5400e-003		4.1800e-003	4.1800e-003	0.0000	16.0220	16.0220	5.1800e-003	0.0000	16.1516
Paving	3.0400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0119	0.0890	0.1166	1.8000e-004		4.5400e-003	4.5400e-003		4.1800e-003	4.1800e-003	0.0000	16.0220	16.0220	5.1800e-003	0.0000	16.1516

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	6.8000e-004	4.9000e-004	5.8200e-003	2.0000e-005	3.5500e-003	1.0000e-005	3.5600e-003	9.1000e-004	1.0000e-005	9.2000e-004	0.0000	1.5286	1.5286	5.0000e-005	5.0000e-005	1.5432
Total	6.8000e-004	4.9000e-004	5.8200e-003	2.0000e-005	3.5500e-003	1.0000e-005	3.5600e-003	9.1000e-004	1.0000e-005	9.2000e-004	0.0000	1.5286	1.5286	5.0000e-005	5.0000e-005	1.5432

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.8 Architectural Coating - 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					
Archit. Coating	0.5070					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3700e-003	0.0232	0.0299	5.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003	0.0000	4.2129	4.2129	2.7000e-004	0.0000	4.2197
Total	0.5104	0.0232	0.0299	5.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003	0.0000	4.2129	4.2129	2.7000e-004	0.0000	4.2197

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	1.3000e-003	9.4000e-004	0.0112	3.0000e-005	3.6600e-003	2.0000e-005	3.6800e-003	9.7000e-004	2.0000e-005	9.9000e-004	0.0000	2.9425	2.9425	9.0000e-005	9.0000e-005	2.9707
Total	1.3000e-003	9.4000e-004	0.0112	3.0000e-005	3.6600e-003	2.0000e-005	3.6800e-003	9.7000e-004	2.0000e-005	9.9000e-004	0.0000	2.9425	2.9425	9.0000e-005	9.0000e-005	2.9707

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	0.5070					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.3700e-003	0.0232	0.0299	5.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003	0.0000	4.2129	4.2129	2.7000e-004	0.0000	4.2197
Total	0.5104	0.0232	0.0299	5.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003	0.0000	4.2129	4.2129	2.7000e-004	0.0000	4.2197

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	1.3000e-003	9.4000e-004	0.0112	3.0000e-005	3.6600e-003	2.0000e-005	3.6800e-003	9.7000e-004	2.0000e-005	9.9000e-004	0.0000	2.9425	2.9425	9.0000e-005	9.0000e-005	2.9707
Total	1.3000e-003	9.4000e-004	0.0112	3.0000e-005	3.6600e-003	2.0000e-005	3.6800e-003	9.7000e-004	2.0000e-005	9.9000e-004	0.0000	2.9425	2.9425	9.0000e-005	9.0000e-005	2.9707

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.8 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	0.3226					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0100e-003	0.0137	0.0190	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.6809	2.6809	1.6000e-004	0.0000	2.6849
Total	0.3247	0.0137	0.0190	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.6809	2.6809	1.6000e-004	0.0000	2.6849

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	7.7000e-004	5.3000e-004	6.5900e-003	2.0000e-005	2.3300e-003	1.0000e-005	2.3400e-003	6.2000e-004	1.0000e-005	6.3000e-004	0.0000	1.8136	1.8136	5.0000e-005	5.0000e-005	1.8302
Total	7.7000e-004	5.3000e-004	6.5900e-003	2.0000e-005	2.3300e-003	1.0000e-005	2.3400e-003	6.2000e-004	1.0000e-005	6.3000e-004	0.0000	1.8136	1.8136	5.0000e-005	5.0000e-005	1.8302

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	0.3226					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0100e-003	0.0137	0.0190	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.6809	2.6809	1.6000e-004	0.0000	2.6849
Total	0.3247	0.0137	0.0190	3.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	2.6809	2.6809	1.6000e-004	0.0000	2.6849

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	7.7000e-004	5.3000e-004	6.5900e-003	2.0000e-005	2.3300e-003	1.0000e-005	2.3400e-003	6.2000e-004	1.0000e-005	6.3000e-004	0.0000	1.8136	1.8136	5.0000e-005	5.0000e-005	1.8302
Total	7.7000e-004	5.3000e-004	6.5900e-003	2.0000e-005	2.3300e-003	1.0000e-005	2.3400e-003	6.2000e-004	1.0000e-005	6.3000e-004	0.0000	1.8136	1.8136	5.0000e-005	5.0000e-005	1.8302

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.2604	0.7675	3.2776	0.0114	1.1252	9.2600e-003	1.1345	0.2996	8.6700e-003	0.3083	0.0000	1,065.0885	1,065.0885	0.0367	0.0608	1,084.1085
Unmitigated	0.2604	0.7675	3.2776	0.0114	1.1252	9.2600e-003	1.1345	0.2996	8.6700e-003	0.3083	0.0000	1,065.0885	1,065.0885	0.0367	0.0608	1,084.1085

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
General Office Building	993.00	993.00	993.00	2,901,014	2,901,014
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	28.42	28.42	28.42	144,810	144,810
Total	1,021.42	1,021.42	1,021.42	3,045,824	3,045,824

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use Appendix A	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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	100	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
Unrefrigerated Warehouse-No	14.00	14.00	14.00	59.00	0.00	41.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	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
General Office Building	0.603630	0.060710	0.195310	0.140350	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
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
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000

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	0.0000		0.0000	0.0000	0.0000	59.7628	59.7628	9.6700e-003	1.1700e-003	60.3538
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	59.7628	59.7628	9.6700e-003	1.1700e-003	60.3538

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

NaturalGas Mitigated	1.5300e-003	0.0139	0.0117	8.0000e-005		1.0500e-003	1.0500e-003		1.0500e-003	1.0500e-003	0.0000	15.1016	15.1016	2.9000e-004	2.8000e-004	15.1913
NaturalGas Unmitigated	1.5300e-003	0.0139	0.0117	8.0000e-005		1.0500e-003	1.0500e-003		1.0500e-003	1.0500e-003	0.0000	15.1016	15.1016	2.9000e-004	2.8000e-004	15.1913

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**5.2 Energy by Land Use - NaturalGas****Unmitigated**

	NaturalGas 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					
City Park	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
General Office Building	76600	4.1000e-004	3.7500e-003	3.1500e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004	0.0000	4.0877	4.0877	8.0000e-005	7.0000e-005	4.1120
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
Unrefrigerated Warehouse-No Rail	206393	1.1100e-003	0.0101	8.5000e-003	6.0000e-005		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	11.0139	11.0139	2.1000e-004	2.0000e-004	11.0794
Total		1.5200e-003	0.0139	0.0117	8.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	15.1016	15.1016	2.9000e-004	2.7000e-004	15.1913

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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					
City Park	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
General Office Building	76600	4.1000e-004	3.7500e-003	3.1500e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004	0.0000	4.0877	4.0877	8.0000e-005	7.0000e-005	4.1120
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
Unrefrigerated Warehouse-No Rail	206393	1.1100e-003	0.0101	8.5000e-003	6.0000e-005		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	11.0139	11.0139	2.1000e-004	2.0000e-004	11.0794
Total		1.5200e-003	0.0139	0.0117	8.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	15.1016	15.1016	2.9000e-004	2.7000e-004	15.1913

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use		Total CO ₂	CH ₄	N ₂ O	CO ₂ e
Land Use	kWh/yr	tons/yr	MT/yr			
City Park	0		0.0000	0.0000	0.0000	0.0000
General Office Building	48160		4.4559	7.2000e- 004	9.0000e- 005	4.5000
Other Non- Asphalt Surfaces	0		0.0000	0.0000	0.0000	0.0000
Parking Lot	35413		3.2765	5.3000e- 004	6.0000e- 005	3.3089
Unrefrigerated Warehouse-No Rail	562346		52.0303	8.4200e- 003	1.0200e- 003	52.5448
Total			59.7628	9.6700e- 003	1.1700e- 003	60.3538

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Mitigated**

	Electricity Use		Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	tons/yr	MT/yr			
City Park	0		0.0000	0.0000	0.0000	0.0000
General Office Building	48160		4.4559	7.2000e-004	9.0000e-005	4.5000
Other Non-Asphalt Surfaces	0		0.0000	0.0000	0.0000	0.0000
Parking Lot	35413		3.2765	5.3000e-004	6.0000e-005	3.3089
Unrefrigerated Warehouse-No Rail	562346		52.0303	8.4200e-003	1.0200e-003	52.5448
Total			59.7628	9.6700e-003	1.1700e-003	60.3538

6.0 Area Detail**6.1 Mitigation Measures Area**

	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					
	Appendix A															

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated	0.6923	2.0000e-005	2.6900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.2400e-003	5.2400e-003	1.0000e-005	0.0000	5.5800e-003
Unmitigated	0.6923	2.0000e-005	2.6900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.2400e-003	5.2400e-003	1.0000e-005	0.0000	5.5800e-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	0.0830					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6091					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.5000e-004	2.0000e-005	2.6900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.2400e-003	5.2400e-003	1.0000e-005	0.0000	5.5800e-003
Total	0.6923	2.0000e-005	2.6900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.2400e-003	5.2400e-003	1.0000e-005	0.0000	5.5800e-003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	0.0830					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6091					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.5000e-004	2.0000e-005	2.6900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.2400e-003	5.2400e-003	1.0000e-005	0.0000	5.5800e-003
Total	0.6923	2.0000e-005	2.6900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.2400e-003	5.2400e-003	1.0000e-005	0.0000	5.5800e-003

7.0 Water Detail**7.1 Mitigation Measures Water**

		Total CO2	CH4	N2O	CO2e
Category	tons/yr	MT/yr			
Mitigated		29.4154	1.1531	0.0275	66.4420
Unmitigated		29.4154	1.1531	0.0275	66.4420

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**7.2 Water by Land Use****Unmitigated**

	Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr	MT/yr			
City Park	0 / 1.25106		0.4051	7.0000e-005	1.0000e-005	0.4091
General Office Building	0.710935 / 0.435734		0.7226	0.0233	5.6000e-004	1.4696
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
Unrefrigerated Warehouse-No Rail	34.5857 / 0		28.2877	1.1298	0.0270	64.5632
Total			29.4154	1.1531	0.0275	66.4420

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Mitigated**

	Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr	MT/yr			
City Park	0 / 1.25106		0.4051	7.0000e-005	1.0000e-005	0.4091
General Office Building	0.710935 / 0.435734		0.7226	0.0233	5.6000e-004	1.4696
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
Unrefrigerated Warehouse-No Rail	34.5857 / 0		28.2877	1.1298	0.0270	64.5632
Total			29.4154	1.1531	0.0275	66.4420

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

		Total CO2	CH4	N2O	CO2e
	tons/yr	MT/yr			
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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated		29.3119	1.7323	0.0000	72.6190
Unmitigated		29.3119	1.7323	0.0000	72.6190

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed		Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr	MT/yr			
City Park	0.09		0.0183	1.0800e-003	0.0000	0.0453
General Office Building	3.72		0.7551	0.0446	0.0000	1.8708
Other Non-Asphalt Surfaces	0		0.0000	0.0000	0.0000	0.0000
Parking Lot	0		0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	140.59		28.5385	1.6866	0.0000	70.7029
Total			29.3119	1.7323	0.0000	72.6190

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Mitigated**

	Waste Disposed		Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr	MT/yr			
City Park	0.09		0.0183	1.0800e-003	0.0000	0.0453
General Office Building	3.72		0.7551	0.0446	0.0000	1.8708
Other Non-Asphalt Surfaces	0		0.0000	0.0000	0.0000	0.0000
Parking Lot	0		0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	140.59		28.5385	1.6866	0.0000	70.7029
Total			29.3119	1.7323	0.0000	72.6190

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

Appendix A

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 Not Applied

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

731 W. Cutting Blvd 2030 Operation - Contra Costa County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**731 W. Cutting Blvd 2030 Operation****Contra Costa County, Annual****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	9.60	1000sqft	0.09	9,600.00	0
Unrefrigerated Warehouse-No Rail	143.96	1000sqft	3.30	143,958.00	0
Other Non-Asphalt Surfaces	37.46	1000sqft	0.86	37,456.00	0
Parking Lot	101.18	1000sqft	2.32	101,180.00	0
City Park	1.05	Acre	1.05	45,815.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	5			Operational Year	2030
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	184	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Note 1

Land Use - Note 2

Construction Phase - Note 1

Off-road Equipment - Note 1

Off-road Equipment -

Trips and VMT - Note 1

Demolition -

Grading -

Appendix A

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating -

Vehicle Trips - Note 5

Construction Off-road Equipment Mitigation -

Fleet Mix - Note 5

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblFleetMix	HHD	7.0880e-003	0.00
tblFleetMix	HHD	7.0880e-003	1.00
tblFleetMix	LDA	0.58	0.62
tblFleetMix	LDA	0.58	0.00
tblFleetMix	LDT1	0.06	0.06
tblFleetMix	LDT1	0.06	0.00
tblFleetMix	LDT2	0.18	0.19
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.5730e-003	0.00
tblFleetMix	LHD2	5.5730e-003	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MCY	0.02	0.00
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	2.8620e-003	0.00
tblFleetMix	MH	2.8620e-003	0.00
tblFleetMix	MHD	7.4350e-003	0.00
tblFleetMix	MHD	7.4350e-003	0.00
tblFleetMix Appendix A	OBUS	5.3700e-004	0.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblFleetMix	OBUS	5.3700e-004	0.00
tblFleetMix	SBUS	1.7970e-003	0.00
tblFleetMix	SBUS	1.7970e-003	0.00
tblFleetMix	UBUS	3.0500e-004	0.00
tblFleetMix	UBUS	3.0500e-004	0.00
tblLandUse	LandUseSquareFeet	143,960.00	143,958.00
tblLandUse	LandUseSquareFeet	37,460.00	37,456.00
tblLandUse	LandUseSquareFeet	45,738.00	45,815.00
tblLandUse	LotAcreage	0.22	0.09
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	203.98	184
tblTripsAndVMT	WorkerTripNumber	28.00	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	2.21	103.44
tblVehicleTrips	ST_TR	1.74	0.20
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	0.70	103.44
tblVehicleTrips	SU_TR	1.74	0.20
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	9.74	103.44
tblVehicleTrips	WD_TR	1.74	0.20

2.0 Emissions Summary**2.1 Overall Construction****Unmitigated Construction**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
Year	tons/yr										MT/yr					
2022	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
Maximum	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

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	0.0000	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
Maximum	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

	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	Appendix A Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Highest

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	0.6923	2.0000e-005	2.6800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.2400e-003	5.2400e-003	1.0000e-005	0.0000	5.5800e-003
Energy	2.0600e-003	0.0188	0.0158	1.1000e-004		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	78.1901	78.1901	0.0108	1.6300e-003	78.9447
Mobile	0.1564	0.4441	2.0605	7.2400e-003	0.9059	5.2700e-003	0.9112	0.2411	4.9300e-003	0.2460	0.0000	671.8305	671.8305	0.0197	0.0344	682.5774
Waste						0.0000	0.0000		0.0000	0.0000	29.2997	0.0000	29.2997	1.7316	0.0000	72.5888
Water						0.0000	0.0000		0.0000	0.0000	11.1029	16.4758	27.5788	1.1433	0.0273	64.2930
Total	0.8508	0.4629	2.0789	7.3500e-003	0.9059	6.7100e-003	0.9126	0.2411	6.3700e-003	0.2475	40.4027	766.5017	806.9043	2.9054	0.0633	898.4095

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	0.6923	2.0000e-005	2.6800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.2400e-003	5.2400e-003	1.0000e-005	0.0000	5.5800e-003
Energy	2.0600e-003	0.0188	0.0158	1.1000e-004		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	78.1901	78.1901	0.0108	1.6300e-003	78.9447
Mobile	0.1564	0.4441	2.0605	7.2400e-003	0.9059	5.2700e-003	0.9112	0.2411	4.9300e-003	0.2460	0.0000	671.8305	671.8305	0.0197	0.0344	682.5774
Waste						0.0000	0.0000		0.0000	0.0000	29.2997	0.0000	29.2997	1.7316	0.0000	72.5888
Water						0.0000	0.0000		0.0000	0.0000	11.1029	16.4758	27.5788	1.1433	0.0273	64.2930
Total	0.8508	0.4629	2.0789	7.3500e-003	0.9059	6.7100e-003	0.9126	0.2411	6.3700e-003	0.2475	40.4027	766.5017	806.9043	2.9054	0.0633	898.4095

	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

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	11/16/2022	11/15/2022	5	0	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Acres of Grading (Grading Phase): 0****Acres of Paving: 3.18****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 230,339; Non-Residential Outdoor: 76,780; Striped Parking Area: 8,318 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	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
Architectural Coating	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction**3.2 Architectural Coating - 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					
Archit. Coating	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
Off-Road	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
Total	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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	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
Total	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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Mitigated Construction On-Site**

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

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	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
Total	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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.1564	0.4441	2.0605	7.2400e-003	0.9059	5.2700e-003	0.9112	0.2411	4.9300e-003	0.2460	0.0000	671.8305	671.8305	0.0197	0.0344	682.5774
Unmitigated	0.1564	0.4441	2.0605	7.2400e-003	0.9059	5.2700e-003	0.9112	0.2411	4.9300e-003	0.2460	0.0000	671.8305	671.8305	0.0197	0.0344	682.5774

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
General Office Building	993.02	993.02	993.02	2,373,082	2,373,082
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	28.79	28.79	28.79	84,059	84,059
Total	1,021.82	1,021.82	1,021.82	2,457,140	2,457,140

4.3 Trip Type Information

Appendix A	Miles	Trip %	Trip Purpose %
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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	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
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
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
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	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
General Office Building	0.622730	0.060160	0.189020	0.128090	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
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
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000

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	0.0000		0.0000	0.0000	0.0000	57.7783	57.7783	0.0104	1.2600e-003	58.4117

Appendix A

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Electricity Unmitigated					0.0000	0.0000		0.0000	0.0000	0.0000	57.7783	57.7783	0.0104	1.2600e-003	58.4117
NaturalGas Mitigated	2.0600e-003	0.0188	0.0158	1.1000e-004	1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	20.4118	20.4118	3.9000e-004	3.7000e-004	20.5331
NaturalGas Unmitigated	2.0600e-003	0.0188	0.0158	1.1000e-004	1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	20.4118	20.4118	3.9000e-004	3.7000e-004	20.5331

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**5.2 Energy by Land Use - NaturalGas****Unmitigated**

	NaturalGas 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					
City Park	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
General Office Building	183840	9.9000e-004	9.0100e-003	7.5700e-003	5.0000e-005		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004	0.0000	9.8104	9.8104	1.9000e-004	1.8000e-004	9.8687
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
Unrefrigerated Warehouse-No Rail	198662	1.0700e-003	9.7400e-003	8.1800e-003	6.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	10.6014	10.6014	2.0000e-004	1.9000e-004	10.6644
Total		2.0600e-003	0.0188	0.0158	1.1000e-004		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003	0.0000	20.4118	20.4118	3.9000e-004	3.7000e-004	20.5331

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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					
City Park	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
General Office Building	183840	9.9000e-004	9.0100e-003	7.5700e-003	5.0000e-005		6.8000e-004	6.8000e-004		6.8000e-004	6.8000e-004	0.0000	9.8104	9.8104	1.9000e-004	1.8000e-004	9.8687
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
Unrefrigerated Warehouse-No Rail	198662	1.0700e-003	9.7400e-003	8.1800e-003	6.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	10.6014	10.6014	2.0000e-004	1.9000e-004	10.6644
Total		2.0600e-003	0.0188	0.0158	1.1000e-004		1.4200e-003	1.4200e-003		1.4200e-003	1.4200e-003	0.0000	20.4118	20.4118	3.9000e-004	3.7000e-004	20.5331

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use		Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	tons/yr	MT/yr			
City Park	0		0.0000	0.0000	0.0000	0.0000
General Office Building	115584		9.6468	1.7300e- 003	2.1000e- 004	9.7525
Other Non- Asphalt Surfaces	0		0.0000	0.0000	0.0000	0.0000
Parking Lot	35413		2.9556	5.3000e- 004	6.0000e- 005	2.9880
Unrefrigerated Warehouse-No Rail	541282		45.1759	8.1000e- 003	9.8000e- 004	45.6712
Total			57.7783	0.0104	1.2500e- 003	58.4117

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Mitigated**

	Electricity Use		Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	tons/yr	MT/yr			
City Park	0		0.0000	0.0000	0.0000	0.0000
General Office Building	115584		9.6468	1.7300e-003	2.1000e-004	9.7525
Other Non-Asphalt Surfaces	0		0.0000	0.0000	0.0000	0.0000
Parking Lot	35413		2.9556	5.3000e-004	6.0000e-005	2.9880
Unrefrigerated Warehouse-No Rail	541282		45.1759	8.1000e-003	9.8000e-004	45.6712
Total			57.7783	0.0104	1.2500e-003	58.4117

6.0 Area Detail**6.1 Mitigation Measures Area**

	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
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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr									MT/yr						
Mitigated	0.6923	2.0000e-005	2.6800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.2400e-003	5.2400e-003	1.0000e-005	0.0000	5.5800e-003
Unmitigated	0.6923	2.0000e-005	2.6800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.2400e-003	5.2400e-003	1.0000e-005	0.0000	5.5800e-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	0.0830					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6091					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.5000e-004	2.0000e-005	2.6800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.2400e-003	5.2400e-003	1.0000e-005	0.0000	5.5800e-003
Total	0.6923	2.0000e-005	2.6800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.2400e-003	5.2400e-003	1.0000e-005	0.0000	5.5800e-003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	0.0830					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6091					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.5000e-004	2.0000e-005	2.6800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.2400e-003	5.2400e-003	1.0000e-005	0.0000	5.5800e-003
Total	0.6923	2.0000e-005	2.6800e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.2400e-003	5.2400e-003	1.0000e-005	0.0000	5.5800e-003

7.0 Water Detail**7.1 Mitigation Measures Water**

		Total CO2	CH4	N2O	CO2e
Category	tons/yr	MT/yr			
Mitigated		27.5788	1.1433	0.0273	64.2930
Unmitigated		27.5788	1.1433	0.0273	64.2930
Appendix A					

731 W. Cutting Blvd 2030 Operation - Contra Costa County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**7.2 Water by Land Use****Unmitigated**

	Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr	MT/yr			
City Park	0 / 1.25106		0.3655	7.0000e-005	1.0000e-005	0.3695
General Office Building	1.70624 / 1.04576		1.6174	0.0558	1.3400e-003	3.4103
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
Unrefrigerated Warehouse-No Rail	33.2908 / 0		25.5960	1.0875	0.0259	60.5132
Total			27.5788	1.1433	0.0273	64.2930

731 W. Cutting Blvd 2030 Operation - Contra Costa County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Mitigated**

	Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr	MT/yr			
City Park	0 / 1.25106		0.3655	7.0000e-005	1.0000e-005	0.3695
General Office Building	1.70624 / 1.04576		1.6174	0.0558	1.3400e-003	3.4103
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
Unrefrigerated Warehouse-No Rail	33.2908 / 0		25.5960	1.0875	0.0259	60.5132
Total			27.5788	1.1433	0.0273	64.2930

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

		Total CO2	CH4	N2O	CO2e
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731 W. Cutting Blvd 2030 Operation - Contra Costa County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	tons/yr	MT/yr			
Mitigated		29.2997	1.7316	0.0000	72.5888
Unmitigated		29.2997	1.7316	0.0000	72.5888

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed		Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr	MT/yr			
City Park	0.09		0.0183	1.0800e-003	0.0000	0.0453
General Office Building	8.93		1.8127	0.1071	0.0000	4.4909
Other Non-Asphalt Surfaces	0		0.0000	0.0000	0.0000	0.0000
Parking Lot	0		0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	135.32		27.4687	1.6234	0.0000	68.0526
Total			29.2997	1.7316	0.0000	72.5888

731 W. Cutting Blvd 2030 Operation - Contra Costa County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Mitigated**

	Waste Disposed		Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr	MT/yr			
City Park	0.09		0.0183	1.0800e-003	0.0000	0.0453
General Office Building	8.93		1.8127	0.1071	0.0000	4.4909
Other Non-Asphalt Surfaces	0		0.0000	0.0000	0.0000	0.0000
Parking Lot	0		0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	135.32		27.4687	1.6234	0.0000	68.0526
Total			29.2997	1.7316	0.0000	72.5888

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

731 W. Cutting Blvd 2030 Operation - Contra Costa County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
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User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

731 W. Cutting Blvd Existing Land Uses - Contra Costa County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**731 W. Cutting Blvd Existing Land Uses****Contra Costa County, Annual****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	37.28	1000sqft	0.86	37,278.00	0
Parking Lot	279.66	1000sqft	6.42	279,662.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	5			Operational Year	2023
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Existing Land Uses

Construction Phase - Operation Only

Off-road Equipment - Operation Only

Off-road Equipment -

Trips and VMT -

Demolition -

Grading -

Architectural Coating -

Vehicle Trips -

Construction Off-road Equipment Mitigation -

731 W. Cutting Blvd Existing Land Uses - Contra Costa County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblLandUse	LandUseSquareFeet	37,280.00	37,278.00
tblLandUse	LandUseSquareFeet	279,660.00	279,662.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

2.0 Emissions Summary**2.1 Overall Construction****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	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
Maximum	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

731 W. Cutting Blvd Existing Land Uses - Contra Costa County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	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
Maximum	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

	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)
		Highest		

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	0.1892	3.0000e-005	2.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.6600e-003	5.6600e-003	1.0000e-005	0.0000	6.0300e-003

731 W. Cutting Blvd Existing Land Uses - Contra Costa County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Energy	2.8000e-004	2.5200e-003	2.1200e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	24.7702	24.7702	3.6200e-003	4.8000e-004	25.0043
Mobile	0.0322	0.0390	0.3162	6.7000e-004	0.0701	5.0000e-004	0.0706	0.0187	4.7000e-004	0.0192	0.0000	61.7710	61.7710	3.8100e-003	2.8600e-003	62.7183
Waste						0.0000	0.0000		0.0000	0.0000	7.1128	0.0000	7.1128	0.4204	0.0000	17.6217
Water						0.0000	0.0000		0.0000	0.0000	2.7351	4.3161	7.0511	0.2816	6.7200e-003	16.0933
Total	0.2217	0.0416	0.3212	6.9000e-004	0.0701	7.0000e-004	0.0708	0.0187	6.7000e-004	0.0194	9.8479	90.8629	100.7108	0.7094	0.0101	121.4437

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	0.1892	3.0000e-005	2.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.6600e-003	5.6600e-003	1.0000e-005	0.0000	6.0300e-003
Energy	2.8000e-004	2.5200e-003	2.1200e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	24.7702	24.7702	3.6200e-003	4.8000e-004	25.0043
Mobile	0.0322	0.0390	0.3162	6.7000e-004	0.0701	5.0000e-004	0.0706	0.0187	4.7000e-004	0.0192	0.0000	61.7710	61.7710	3.8100e-003	2.8600e-003	62.7183
Waste						0.0000	0.0000		0.0000	0.0000	7.1128	0.0000	7.1128	0.4204	0.0000	17.6217
Water						0.0000	0.0000		0.0000	0.0000	2.7351	4.3161	7.0511	0.2816	6.7200e-003	16.0933
Total	0.2217	0.0416	0.3212	6.9000e-004	0.0701	7.0000e-004	0.0708	0.0187	6.7000e-004	0.0194	9.8479	90.8629	100.7108	0.7094	0.0101	121.4437

	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

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	10/7/2021	10/6/2021	5	0	

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 Not Applied**Acres of Grading (Grading Phase): 0****Acres of Paving: 6.42****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 55,917; Non-Residential Outdoor: 18,639; Striped Parking Area: 16,780 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	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
Architectural Coating	0	27.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction**3.2 Architectural Coating - 2021****Unmitigated Construction On-Site**

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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	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
Total	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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Mitigated Construction On-Site**

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

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	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
Total	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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0322	0.0390	0.3162	6.7000e-004	0.0701	5.0000e-004	0.0706	0.0187	4.7000e-004	0.0192	0.0000	61.7710	61.7710	3.8100e-003	2.8600e-003	62.7183
Unmitigated	0.0322	0.0390	0.3162	6.7000e-004	0.0701	5.0000e-004	0.0706	0.0187	4.7000e-004	0.0192	0.0000	61.7710	61.7710	3.8100e-003	2.8600e-003	62.7183

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	64.87	64.87	64.87	189,381	189,381
Total	64.87	64.87	64.87	189,381	189,381

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
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
Unrefrigerated Warehouse-No Rail	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

	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	22.0250	22.0250	3.5600e-003	4.3000e-004	22.2428
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	22.0250	22.0250	3.5600e-003	4.3000e-004	22.2428
NaturalGas Mitigated	2.8000e-004	2.5200e-003	2.1200e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7452	2.7452	5.0000e-005	5.0000e-005	2.7615
NaturalGas Unmitigated	2.8000e-004	2.5200e-003	2.1200e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7452	2.7452	5.0000e-005	5.0000e-005	2.7615

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**5.2 Energy by Land Use - NaturalGas****Unmitigated**

	NaturalGas 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					
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
Unrefrigerated Warehouse-No Rail	51443.6	2.8000e-004	2.5200e-003	2.1200e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7452	2.7452	5.0000e-005	5.0000e-005	2.7615
Total		2.8000e-004	2.5200e-003	2.1200e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7452	2.7452	5.0000e-005	5.0000e-005	2.7615

Mitigated

	NaturalGas 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					
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
Unrefrigerated Warehouse-No Rail	51443.6	2.8000e-004	2.5200e-003	2.1200e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7452	2.7452	5.0000e-005	5.0000e-005	2.7615
Total		2.8000e-004	2.5200e-003	2.1200e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7452	2.7452	5.0000e-005	5.0000e-005	2.7615

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use		Total CO ₂	CH ₄	N ₂ O	CO ₂ e
Land Use	kWh/yr	tons/yr	MT/yr			
Parking Lot	97881.7		9.0564	1.4700e-003	1.8000e-004	9.1459
Unrefrigerated Warehouse-No Rail	140165		12.9686	2.1000e-003	2.5000e-004	13.0969
Total			22.0250	3.5700e-003	4.3000e-004	22.2428

Mitigated

	Electricity Use		Total CO ₂	CH ₄	N ₂ O	CO ₂ e
Land Use	kWh/yr	tons/yr	MT/yr			
Parking Lot	97881.7		9.0564	1.4700e-003	1.8000e-004	9.1459
Unrefrigerated Warehouse-No Rail	140165		12.9686	2.1000e-003	2.5000e-004	13.0969
Total			22.0250	3.5700e-003	4.3000e-004	22.2428

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**6.1 Mitigation Measures Area**

	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	0.1892	3.0000e-005	2.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.6600e-003	5.6600e-003	1.0000e-005	0.0000	6.0300e-003
Unmitigated	0.1892	3.0000e-005	2.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.6600e-003	5.6600e-003	1.0000e-005	0.0000	6.0300e-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	0.0253					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1637					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.7000e-004	3.0000e-005	2.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.6600e-003	5.6600e-003	1.0000e-005	0.0000	6.0300e-003
Total	0.1892	3.0000e-005	2.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.6600e-003	5.6600e-003	1.0000e-005	0.0000	6.0300e-003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	0.0253					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1637					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.7000e-004	3.0000e-005	2.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.6600e-003	5.6600e-003	1.0000e-005	0.0000	6.0300e-003
Total	0.1892	3.0000e-005	2.9100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.6600e-003	5.6600e-003	1.0000e-005	0.0000	6.0300e-003

7.0 Water Detail**7.1 Mitigation Measures Water**

		Total CO2	CH4	N2O	CO2e
Category	tons/yr	MT/yr			
Mitigated		7.0511	0.2816	6.7200e-003	16.0933
Unmitigated		7.0511	0.2816	6.7200e-003	16.0933

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**7.2 Water by Land Use****Unmitigated**

	Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr	MT/yr			
Parking Lot	0 / 0		0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	8.621 / 0		7.0511	0.2816	6.7200e-003	16.0933
Total			7.0511	0.2816	6.7200e-003	16.0933

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Mitigated**

	Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr	MT/yr			
Parking Lot	0 / 0		0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	8.621 / 0		7.0511	0.2816	6.7200e-003	16.0933
Total			7.0511	0.2816	6.7200e-003	16.0933

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

		Total CO2	CH4	N2O	CO2e
	tons/yr	MT/yr			
Mitigated		7.1128	0.4204	0.0000	17.6217
Unmitigated		7.1128	0.4204	0.0000	17.6217

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed		Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr	MT/yr			
Parking Lot	0		0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	35.04		7.1128	0.4204	0.0000	17.6217
Total			7.1128	0.4204	0.0000	17.6217

Mitigated

	Waste Disposed		Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr	MT/yr			
Parking Lot	0		0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	35.04		7.1128	0.4204	0.0000	17.6217
Total			7.1128	0.4204	0.0000	17.6217

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**731 W. Cutting Blvd Existing Land Uses 2030****Contra Costa County, Annual****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	37.28	1000sqft	0.86	37,278.00	0
Parking Lot	279.66	1000sqft	6.42	279,662.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	5			Operational Year	2030
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	184	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CalEEMod Note 1

Land Use - Existing Land Uses

Construction Phase - Operation Only

Off-road Equipment - Operation Only

Off-road Equipment -

Trips and VMT -

Demolition -

Grading -

Architectural Coating -

Vehicle Trips -

Construction Off-road Equipment Mitigation -

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	0.00
tblLandUse	LandUseSquareFeet	37,280.00	37,278.00
tblLandUse	LandUseSquareFeet	279,660.00	279,662.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblProjectCharacteristics	CO2IntensityFactor	203.98	184

2.0 Emissions Summary**2.1 Overall Construction****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	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
Maximum	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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	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
Maximum	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

	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)
		Highest		

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	0.1892	3.0000e-005	2.9000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.6600e-003	5.6600e-003	1.0000e-005	0.0000	6.0300e-003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Energy	2.8000e-004	2.5200e-003	2.1200e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	22.6129	22.6129	3.6200e-003	4.8000e-004	22.8470
Mobile	0.0245	0.0271	0.2442	5.5000e-004	0.0701	3.6000e-004	0.0705	0.0187	3.3000e-004	0.0191	0.0000	50.3957	50.3957	2.9100e-003	2.2600e-003	51.1424
Waste						0.0000	0.0000		0.0000	0.0000	7.1128	0.0000	7.1128	0.4204	0.0000	17.6217
Water						0.0000	0.0000		0.0000	0.0000	2.7351	3.8933	6.6284	0.2816	6.7200e-003	15.6706
Total	0.2140	0.0296	0.2493	5.7000e-004	0.0701	5.6000e-004	0.0707	0.0187	5.3000e-004	0.0193	9.8479	76.9075	86.7554	0.7085	9.4600e-003	107.2876

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	0.1892	3.0000e-005	2.9000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.6600e-003	5.6600e-003	1.0000e-005	0.0000	6.0300e-003
Energy	2.8000e-004	2.5200e-003	2.1200e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	22.6129	22.6129	3.6200e-003	4.8000e-004	22.8470
Mobile	0.0245	0.0271	0.2442	5.5000e-004	0.0701	3.6000e-004	0.0705	0.0187	3.3000e-004	0.0191	0.0000	50.3957	50.3957	2.9100e-003	2.2600e-003	51.1424
Waste						0.0000	0.0000		0.0000	0.0000	7.1128	0.0000	7.1128	0.4204	0.0000	17.6217
Water						0.0000	0.0000		0.0000	0.0000	2.7351	3.8933	6.6284	0.2816	6.7200e-003	15.6706
Total	0.2140	0.0296	0.2493	5.7000e-004	0.0701	5.6000e-004	0.0707	0.0187	5.3000e-004	0.0193	9.8479	76.9075	86.7554	0.7085	9.4600e-003	107.2876

	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

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	10/7/2021	10/6/2021	5	0	

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 Not Applied**Acres of Grading (Grading Phase): 0****Acres of Paving: 6.42****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 55,917; Non-Residential Outdoor: 18,639; Striped Parking Area: 16,780 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	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
Architectural Coating	0	27.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction**3.2 Architectural Coating - 2021****Unmitigated Construction On-Site**

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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	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
Total	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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Mitigated Construction On-Site**

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

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	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
Total	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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	0.0245	0.0271	0.2442	5.5000e-004	0.0701	3.6000e-004	0.0705	0.0187	3.3000e-004	0.0191	0.0000	50.3957	50.3957	2.9100e-003	2.2600e-003	51.1424
Unmitigated	0.0245	0.0271	0.2442	5.5000e-004	0.0701	3.6000e-004	0.0705	0.0187	3.3000e-004	0.0191	0.0000	50.3957	50.3957	2.9100e-003	2.2600e-003	51.1424

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	64.87	64.87	64.87	189,381	189,381
Total	64.87	64.87	64.87	189,381	189,381

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
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
Unrefrigerated Warehouse-No Rail	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	0.0000		0.0000	0.0000	0.0000	19.8676	19.8676	3.5600e-003	4.3000e-004	20.0854
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	19.8676	19.8676	3.5600e-003	4.3000e-004	20.0854
NaturalGas Mitigated	2.8000e-004	2.5200e-003	2.1200e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7452	2.7452	5.0000e-005	5.0000e-005	2.7615
NaturalGas Unmitigated	2.8000e-004	2.5200e-003	2.1200e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7452	2.7452	5.0000e-005	5.0000e-005	2.7615

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**5.2 Energy by Land Use - NaturalGas****Unmitigated**

	NaturalGas 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					
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
Unrefrigerated Warehouse-No Rail	51443.6	2.8000e-004	2.5200e-003	2.1200e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7452	2.7452	5.0000e-005	5.0000e-005	2.7615
Total		2.8000e-004	2.5200e-003	2.1200e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7452	2.7452	5.0000e-005	5.0000e-005	2.7615

Mitigated

	NaturalGas 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					
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
Unrefrigerated Warehouse-No Rail	51443.6	2.8000e-004	2.5200e-003	2.1200e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7452	2.7452	5.0000e-005	5.0000e-005	2.7615
Total		2.8000e-004	2.5200e-003	2.1200e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7452	2.7452	5.0000e-005	5.0000e-005	2.7615

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use		Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	tons/yr	MT/yr			
Parking Lot	97881.7		8.1693	1.4700e-003	1.8000e-004	8.2589
Unrefrigerated Warehouse-No Rail	140165		11.6983	2.1000e-003	2.5000e-004	11.8266
Total			19.8676	3.5700e-003	4.3000e-004	20.0854

Mitigated

	Electricity Use		Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	tons/yr	MT/yr			
Parking Lot	97881.7		8.1693	1.4700e-003	1.8000e-004	8.2589
Unrefrigerated Warehouse-No Rail	140165		11.6983	2.1000e-003	2.5000e-004	11.8266
Total			19.8676	3.5700e-003	4.3000e-004	20.0854

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**6.1 Mitigation Measures Area**

	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	0.1892	3.0000e-005	2.9000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.6600e-003	5.6600e-003	1.0000e-005	0.0000	6.0300e-003
Unmitigated	0.1892	3.0000e-005	2.9000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.6600e-003	5.6600e-003	1.0000e-005	0.0000	6.0300e-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	0.0253					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1637					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.7000e-004	3.0000e-005	2.9000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.6600e-003	5.6600e-003	1.0000e-005	0.0000	6.0300e-003
Total	0.1892	3.0000e-005	2.9000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.6600e-003	5.6600e-003	1.0000e-005	0.0000	6.0300e-003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**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	0.0253					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1637					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.7000e-004	3.0000e-005	2.9000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.6600e-003	5.6600e-003	1.0000e-005	0.0000	6.0300e-003
Total	0.1892	3.0000e-005	2.9000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.6600e-003	5.6600e-003	1.0000e-005	0.0000	6.0300e-003

7.0 Water Detail**7.1 Mitigation Measures Water**

		Total CO2	CH4	N2O	CO2e
Category	tons/yr	MT/yr			
Mitigated		6.6284	0.2816	6.7200e-003	15.6706
Unmitigated		6.6284	0.2816	6.7200e-003	15.6706

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**7.2 Water by Land Use****Unmitigated**

	Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr	MT/yr			
Parking Lot	0 / 0		0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	8.621 / 0		6.6284	0.2816	6.7200e-003	15.6706
Total			6.6284	0.2816	6.7200e-003	15.6706

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Mitigated**

	Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr	MT/yr			
Parking Lot	0 / 0		0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	8.621 / 0		6.6284	0.2816	6.7200e-003	15.6706
Total			6.6284	0.2816	6.7200e-003	15.6706

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

		Total CO2	CH4	N2O	CO2e
	tons/yr	MT/yr			
Mitigated		7.1128	0.4204	0.0000	17.6217
Unmitigated		7.1128	0.4204	0.0000	17.6217

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed		Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr	MT/yr			
Parking Lot	0		0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	35.04		7.1128	0.4204	0.0000	17.6217
Total			7.1128	0.4204	0.0000	17.6217

Mitigated

	Waste Disposed		Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr	MT/yr			
Parking Lot	0		0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	35.04		7.1128	0.4204	0.0000	17.6217
Total			7.1128	0.4204	0.0000	17.6217

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Project Construction Emissions

Annual Construction Emissions (tons) (as taken from CalEEMod)

Construction Phase	PM _{2.5} (Exhaust)
Onsite	0.0124
Offsite	0.00094
Demolition (2022)	0.01334
Onsite	0.00706
Offsite	0.00174
Rough Grading (2022)	0.0088
Onsite	0.00528
Offsite	0.00001
Underground Utilities (2022)	0.00529
Onsite	0.0777
Offsite	0.0039
Building Construction (2022)	0.0816
Onsite	0.00612
Offsite	0
Finish Grading (2022)	0.00612
Onsite	0.00454
Offsite	0.00001
Paving (2022)	0.00455
Onsite	0.00135
Offsite	0.00002
Architectural Coating (2022)	0.00137
Onsite	0.00074
Offsite	0.00001
Architectural Coating (2023)	0.00075
Total Onsite	1.15E-01
Total Offsite	6.63E-03

Exhaust PM_{2.5} AERMOD Inputs

	(8 hours/day, 281 workdays)
Construction Hours	2,248.00
Elapsed Hours	6,744.00
Variable Factor	3.00
On-Site Emissions	230.38 pounds 104,498.52 grams 1.550E+01 grams/hours 4.304E-03 grams/sec
Off-Site Emissions	13.26 pounds 6,014.63 grams 8.918E-01 grams/hour 2.477E-04 grams/sec

Off-Site AERMOD Input Adjustments

Roadway Segment	Length (Miles)	Proportion of Total	PM _{2.5} (Exhaust) Emission Rate (g/sec)
Cutting Blvd	0.4	28.57%	9.647E-06
Canal Blvd	0.5	35.71%	1.206E-05
Highway 580	0.5	35.71%	1.206E-05
Totals	1.4	100.00%	3.376E-05

Notes:

¹ Conversion factor of 453.592 grams/pound was used to convert daily emissions expressed in pounds to daily emissions expressed in grams.

² Off-site emissions used in the AERMOD air dispersion model were reduced to account for the proportion of emissions occurring within 1,000 feet of the project site.

Off-Site Emission Adjustment for 1,000-foot Radius of Project Site

Phase Name	Days	Vendor Trip Number (Daily)	Hauling Trip Number (Total)	Vendor Trip Length	Hauling Trip Length
Demolition	20	0	1207	7.3	20
Rough Grading	15	0	2250	7.3	20
Underground Utilities	60	0	0	7.3	20
Building Construction	192	55	0	7.3	20
Finish Grading	13	0	0	7.3	20
Paving	16	0	0	7.3	20
Architectural Coating	54	14	0	7.3	20
Totals		11,316	3,457		

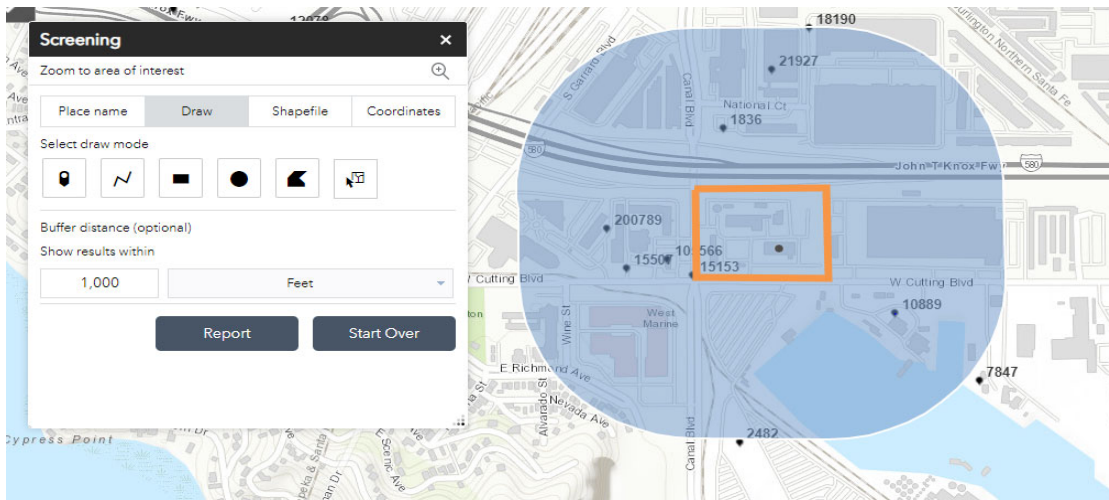
Diesel-Fueled Vehicle Results		
	Total Vehicle Trips	Vehicle Miles Traveled (VMT)
Vendor Trucks	11,316.00	82,606.80
Hauling Trucks	3,457	69,140
Total VMT		151,747

AERMOD 1,000-ft Radius Adjustment		
	Total Vehicle Trips	Vehicle Miles Traveled (VMT)
Vendor Trucks	11,316.00	15,842.40
Hauling Trucks	3,457	4,840
Total VMT		20,682.20

Proportion of off-site emissions occurring within 1,000 of project site:	13.6294%
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Existing Stationary Sources within 1,000 Feet of the Project

Lat, Long Project Site: 37° 55' 33", -122° 22' 36"



Permitted Stationary Sources within 1,000 feet of the Project Site:

1 Facility ID	1836 Parker Hannifin Corp, Veriflo Div	250 Canal Boulevard	Contact BAAQMD
2 Facility ID	10889 Keefe Kaplan Maritime Inc	530 W Cutting Blvd	Contact BAAQMD
3 Facility ID	15153 Sangamo BioSciences	501 Canal Blvd, Suite A100	Generators
4 Facility ID	15507 Point Richmond R & D Associates	1001 W Cutting Blvd	Generators
5 Facility ID	18190 Corodata	740 National Court	Generators
6 Facility ID	21927 Brilliant Group, Inc	780 National Court	Contact BAAQMD
7 Facility ID	105566 Chevron SS# 9-0103	901 W Cutting Blvd	Gas Disp.
8 Facility ID	200789 Reyes Body & Frame	999 W CUTTING BLVD	Contact BAAQMD

Parker Hannifin Corp, Veriflo Div

Facility ID	1836
Name	Parker Hannifin Corp, Veriflo Div
Address	250 Canal Boulevard
City	Richmond
St	CA
Zip	94804
County	Contra Costa
Cancer (per million)	0.000
Hazard	0.000
PM _{2.5} (ug/m3)	0.000
Type	Contact BAAQMD
Latitude	37.928
Longitude	-122.378

Distance from MIR: 2,000 feet

Cancer Risk	ND
Hazard	ND
PM _{2.5} (ug/m3)	ND
Source Type	ND

Note: ND = No Data.

Keefe Kaplan Maritime Inc

Facility ID 10889
 Name Keefe Kaplan Maritime Inc
 Address 530 W Cutting Blvd
 City Richmond
 St CA
 Zip 94804
 County Contra Costa
 Cancer (per million) 0.000
 Hazard 0.000
 PM_{2.5} (ug/m3) 0.150
 Type Contact BAAQMD
 Latitude 37.925
 Longitude -122.374

Distance from MIR: 1,510 feet

Cancer Risk ND
 Hazard ND
 PM_{2.5} (ug/m3) 0.020
 Source Type ND

Generic Case

Distance (meters)	Distance (feet)	Multiplier	Enter Risk or Hazard	Adjusted Risk or Hazard	Enter PM _{2.5} Concentration	Adjusted PM _{2.5} Concentration
0	0.0	1.000		0		0
295	967.8	0.136		0		0
300	984.3	0.132		0	0.15	0.01976199

Sangamo BioSciences

Facility ID 15153
 Name Sangamo BioSciences
 Address 501 Canal Blvd, Suite A100
 City Richmond
 St CA
 Zip 94804
 County Contra Costa
 Cancer (per million) 3.970
 Hazard 0.000
 PM_{2.5} (ug/m3) 0.010
 Type Generators
 Latitude 37.925
 Longitude -122.378

Distance from MIR: 180 feet

Cancer Risk 1.99
 Hazard ND
 PM_{2.5} (ug/m3) 0.01
 Source Type Generators

Diesel Backup Generator

Distance (meters)	Distance (feet)	Distance adjustment multiplier	Enter Risk or Hazard	Adjusted Risk or Hazard	Enter PM _{2.5} Concentration	Adjusted PM _{2.5} Concentration
0	0.0	1.000		0		0
40	131.2	0.58		0		0
50	164.0	0.5	3.97	1.985	0.01	0.005

Point Richmond R & D Associates

Facility ID 15507
 Name Point Richmond R & D Associates
 Address 1001 W Cutting Blvd
 City Richmond
 St CA
 Zip 94804
 County Contra Costa
 Cancer (per million) 10.540
 Hazard 0.020
 PM_{2.5} (ug/m3) 0.010
 Type Generators
 Latitude 37.925
 Longitude -122.380

Distance from MIR: 1,030 feet

Cancer Risk 0.42
 Hazard <0.01
 PM_{2.5} (ug/m3) <0.01
 Source Type Generators

Diesel Backup Generator

Distance (meters)	Distance (feet)	Distance adjustment multiplier	Enter Risk or Hazard	Adjusted Risk or Hazard	Enter PM _{2.5} Concentration	Adjusted PM _{2.5} Concentration
0	0.0	1.000		0		0
260	853.0	0.05		0		0
280	918.6	0.04	10.54	0.4216	0.02	0.0008
260	853.0	0.05		0		0
280	918.6	0.04		0	0.01	0.0004

Corodata

Facility ID 18190
 Name Corodata
 Address 740 National Court
 City Richmond
 St CA
 Zip 94804
 County Contra Costa
 Cancer (per million) 0.470
 Hazard 0.000
 PM_{2.5} (ug/m3) 0.000
 Type Generators
 Latitude 37.930
 Longitude -122.376

Distance from MIR: 2,410 feet

Cancer Risk 0.19
 Hazard ND
 PM_{2.5} (ug/m3) ND
 Source Type Generators

Diesel Backup Generator

Distance (meters)	Distance (feet)	Distance adjustment multiplier	Enter Risk or Hazard	Adjusted Risk or Hazard	Enter PM _{2.5} Concentration	Adjusted PM _{2.5} Concentration
0	0.0	1.000		0		0
260	853.0	0.05		0		0
280	918.6	0.04	0.47	0.0188		0

Brilliant Group, Inc

Facility ID 21927
Name Brilliant Group, Inc
Address 780 National Court
City Richmond
St CA
Zip 94804
County Contra Costa
Cancer (per million) 0.000
Hazard 0.000
PM_{2.5} (ug/m3) 0.010
Type Contact BAAQMD
Latitude 37.929
Longitude -122.377

Distance from MIR: 1,990 feet

Cancer Risk 0
Hazard 0
PM_{2.5} (ug/m3) <0.01
Source Type -

Generic Case						
Distance (meters)	Distance (feet)	Multiplier	Enter Risk or Hazard	Adjusted Risk or Hazard	Enter PM _{2.5} Concentration	Adjusted PM _{2.5} Concentration
0	0.0	1.000		0		0
295	967.8	0.136		0		0
300	984.3	0.132		0	0.01	0.001317466

Chevron SS# 9-0103

Facility ID 105566
Name Chevron SS# 9-0103
Address 901 W Cutting Blvd
City Richmond
St CA
Zip 94804
County Contra Costa
Cancer (per million) 63.510
Hazard 0.280
PM_{2.5} (ug/m3) 0.000
Type Gas Dispensing Facility
Latitude 37.926
Longitude -122.379

Distance from MIR: 835 feet

Cancer Risk 1.28
Hazard 0.06
PM_{2.5} (ug/m3) ND
Source Type Gas Dispensing Facility

Gas Station				
Distance (meters)	Distance (feet)	Distance adjustment multiplier	Enter Risk or Hazard	Adjusted Risk or Hazard
0	0.0	1.000		0.0000
5	16.4	1.000		0.0000
245	803.8	0.021		0.0000
250	820.2	0.020	63.51	1.2792
245	803.8	0.021		0.0000
250	820.2	0.020	0.28	0.0056

Reyes Body & Frame

Facility ID 200789
Name Reyes Body & Frame
Address 999 W CUTTING BLVD
City RICHMOND
St CA
Zip 94804
County Contra Costa
Cancer (per million) 0.000
Hazard 0.000
PM_{2.5} (ug/m3) 0.000
Type Contact BAAQMD
Latitude 37.926
Longitude -122.380

Distance from MIR: 960 feet

Cancer Risk ND
Hazard ND
PM_{2.5} (ug/m3) ND
Source Type ND

Control Pathway

AERMOD

Dispersion Options

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Dispersion Options ☐ Regulatory Default ☒ Non-Default Options	Dispersion Coefficient Urban Population: Name (Optional): Roughness Length:
☒ Flat & Elevated Terrain ☐ No Stack-Tip Downwash (NOSTD) ☐ Run in Screening Mode ☐ Conversion of NOx to NO2 (OLM or PVMRM) ☐ No Checks for Non-Sequential Met Data ☒ Fast All Sources (FASTALL) ☐ Fast Area Sources (FASTAREA) ☐ Optimized Area Source Plume Depletion ☐ Gas Deposition BETA Options: ☐ Capped and Horizontal Stack Releases ☐ Adjusted Friction Velocity (u*) in AERMET (ADJ_U*) ☐ Low Wind Options ☐ SCIM (Sampled Chronological Input Model) ☐ Ignore Urban Night / Daytime Transition (NOURBTRAN)	Output Type ☒ Concentration ☐ Total Deposition (Dry & Wet) ☐ Dry Deposition ☐ Wet Deposition Plume Depletion ☐ Dry Removal ☐ Wet Removal Output Warnings ☐ No Output Warnings ☐ Non-fatal Warnings for Non-sequential Met Data

Pollutant / Averaging Time / Terrain Options

Pollutant Type PM2.5 Averaging Time Options Hours ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 6 ☐ 8 ☐ 12 ☐ 24 ☐ Month ☒ Period ☐ Annual	Exponential Decay ☐ Yes ☒ No Terrain Height Options ☐ Flat ☒ Elevated SO: Meters RE: Meters TG: Meters
Flagpole Receptors ☒ Yes ☐ No Default Height = 1.50 m	

Optional Files



Re-Start File



Init File



Multi-Year Analyses



Event Input File



Error Listing File

Detailed Error Listing File

Filename: Cutting_Bldv.err

Source Pathway - Source Inputs

AERMOD

Polygon Area Sources

Source Type: AREA POLY

Source: PROJECT (On-site Project Emissions)

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
2.00	3.00	1.32E-7		6	554875.46	4197879.72
		1.32E-7			554875.82	4197723.82
		1.32E-7			554670.37	4197723.82
		1.32E-7			554662.05	4197728.53
		1.32E-7			554659.16	4197862.35
		1.32E-7			554667.12	4197872.48

Source Pathway - Source Inputs

AERMOD

Line Volume Sources

Source Type: LINE VOLUME

Source: CANAL (Off-site Canal Blvd)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
16.00	0.00001		554628.94	4198174.30	2.00	2.83
			554631.10	4198154.62	2.00	2.83
			554633.86	4198134.63	2.00	2.83
			554638.17	4198110.95	2.00	2.83
			554641.24	4198090.66	2.00	2.83
			554644.97	4198043.33	2.00	2.83
			554644.71	4198009.87	2.00	2.83
			554642.62	4197980.60	2.00	2.83
			554641.74	4197885.68	2.00	2.83
			554647.45	4197706.06	2.95	2.83
			554647.45	4197575.06	2.94	2.83
			554649.01	4197400.12	3.95	2.83

Source Type: LINE VOLUME

Source: CUTTING (Off-site Cutting Blvd)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
14.00	9.65E-6		554361.54	4197708.68	4.00	2.83
			554540.04	4197707.64	3.02	2.83
			554865.18	4197711.17	1.86	2.83
			555156.43	4197709.37	2.00	2.83

Source Pathway - Source Inputs

AERMOD

Source Type: LINE VOLUME

Source: HWY580 (Off-site Highway 580)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
36.00	0.00001		554364.70	4197965.91	3.00	2.83
			554421.15	4197948.57	3.00	2.83
			554486.27	4197935.68	3.00	2.83
			554555.16	4197923.90	3.00	2.83
			554621.83	4197918.76	2.26	2.83
			554671.36	4197917.53	1.98	2.83
			554769.18	4197918.14	1.00	2.83
			554936.45	4197918.45	2.00	2.83
			555176.16	4197919.10	2.01	2.83

Source Pathway - Source Inputs

AERMOD

Volume Sources Generated from Line Sources

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimension [m]	Initial Vertical Dimension [m]
CUTTING	L0000001	554368.54	4197708.64	4.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000002	554382.54	4197708.56	4.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000003	554396.54	4197708.48	4.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000004	554410.54	4197708.40	4.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000005	554424.54	4197708.31	4.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000006	554438.54	4197708.23	4.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000007	554452.54	4197708.15	4.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000008	554466.54	4197708.07	4.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000009	554480.54	4197707.99	4.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000010	554494.54	4197707.90	3.98	2.83	1.69E-7	14.00		6.51	2.63
	L0000011	554508.54	4197707.82	3.96	2.83	1.69E-7	14.00		6.51	2.63
	L0000012	554522.54	4197707.74	3.67	2.83	1.69E-7	14.00		6.51	2.63
	L0000013	554536.54	4197707.66	3.23	2.83	1.69E-7	14.00		6.51	2.63
	L0000014	554550.54	4197707.75	3.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000015	554564.53	4197707.90	3.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000016	554578.53	4197708.06	3.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000017	554592.53	4197708.21	3.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000018	554606.53	4197708.36	3.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000019	554620.53	4197708.51	3.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000020	554634.53	4197708.66	3.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000021	554648.53	4197708.82	2.96	2.83	1.69E-7	14.00		6.51	2.63
	L0000022	554662.53	4197708.97	2.92	2.83	1.69E-7	14.00		6.51	2.63
	L0000023	554676.53	4197709.12	2.52	2.83	1.69E-7	14.00		6.51	2.63
	L0000024	554690.53	4197709.27	2.09	2.83	1.69E-7	14.00		6.51	2.63

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
CUTTING	L0000025	554704.53	4197709.42	2.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000026	554718.53	4197709.57	2.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000027	554732.52	4197709.73	1.97	2.83	1.69E-7	14.00		6.51	2.63
	L0000028	554746.52	4197709.88	1.91	2.83	1.69E-7	14.00		6.51	2.63
	L0000029	554760.52	4197710.03	1.68	2.83	1.69E-7	14.00		6.51	2.63
	L0000030	554774.52	4197710.18	1.27	2.83	1.69E-7	14.00		6.51	2.63
	L0000031	554788.52	4197710.33	1.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000032	554802.52	4197710.49	1.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000033	554816.52	4197710.64	1.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000034	554830.52	4197710.79	1.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000035	554844.52	4197710.94	1.03	2.83	1.69E-7	14.00		6.51	2.63
	L0000036	554858.52	4197711.09	1.50	2.83	1.69E-7	14.00		6.51	2.63
	L0000037	554872.52	4197711.12	1.96	2.83	1.69E-7	14.00		6.51	2.63
	L0000038	554886.52	4197711.03	2.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000039	554900.52	4197710.95	2.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000040	554914.52	4197710.86	2.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000041	554928.52	4197710.78	2.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000042	554942.52	4197710.69	2.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000043	554956.51	4197710.60	2.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000044	554970.51	4197710.52	2.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000045	554984.51	4197710.43	2.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000046	554998.51	4197710.34	2.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000047	555012.51	4197710.26	2.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000048	555026.51	4197710.17	2.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000049	555040.51	4197710.08	2.00	2.83	1.69E-7	14.00		6.51	2.63

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimension [m]	Initial Vertical Dimension [m]
CUTTING	L0000050	555054.51	4197710.00	2.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000051	555068.51	4197709.91	2.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000052	555082.51	4197709.83	2.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000053	555096.51	4197709.74	2.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000054	555110.51	4197709.65	2.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000055	555124.51	4197709.57	2.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000056	555138.51	4197709.48	2.00	2.83	1.69E-7	14.00		6.51	2.63
	L0000057	555152.51	4197709.39	2.00	2.83	1.69E-7	14.00		6.51	2.63

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimension [m]	Initial Vertical Dimension [m]
CANAL	L0000098	554629.81	4198166.35	2.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000099	554631.67	4198150.46	2.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000100	554633.87	4198134.61	2.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000101	554636.73	4198118.87	2.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000102	554639.36	4198103.09	2.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000103	554641.51	4198087.24	2.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000104	554642.77	4198071.29	2.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000105	554644.03	4198055.34	2.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000106	554644.94	4198039.37	2.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000107	554644.82	4198023.38	2.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000108	554644.53	4198007.38	2.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000109	554643.39	4197991.42	2.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000110	554642.57	4197975.45	2.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000111	554642.42	4197959.45	2.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000112	554642.28	4197943.45	2.00	2.83	2.51E-7	16.00		7.44	2.63

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimension [m]	Initial Vertical Dimension [m]
CANAL	L0000113	554642.13	4197927.45	2.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000114	554641.98	4197911.45	2.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000115	554641.83	4197895.45	2.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000116	554641.94	4197879.46	2.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000117	554642.44	4197863.47	2.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000118	554642.95	4197847.47	2.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000119	554643.46	4197831.48	2.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000120	554643.97	4197815.49	2.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000121	554644.48	4197799.50	2.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000122	554644.99	4197783.51	2.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000123	554645.50	4197767.51	2.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000124	554646.00	4197751.52	2.29	2.83	2.51E-7	16.00		7.44	2.63
	L0000125	554646.51	4197735.53	2.58	2.83	2.51E-7	16.00		7.44	2.63
	L0000126	554647.02	4197719.54	2.81	2.83	2.51E-7	16.00		7.44	2.63
	L0000127	554647.45	4197703.55	3.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000128	554647.45	4197687.55	3.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000129	554647.45	4197671.55	3.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000130	554647.45	4197655.55	3.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000131	554647.45	4197639.55	3.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000132	554647.45	4197623.55	3.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000133	554647.45	4197607.55	3.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000134	554647.45	4197591.55	3.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000135	554647.45	4197575.55	3.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000136	554647.59	4197559.55	3.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000137	554647.73	4197543.55	3.00	2.83	2.51E-7	16.00		7.44	2.63

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimension [m]	Initial Vertical Dimension [m]
CANAL	L0000138	554647.87	4197527.55	3.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000139	554648.01	4197511.55	3.00	2.83	2.51E-7	16.00		7.44	2.63
	L0000140	554648.16	4197495.55	3.03	2.83	2.51E-7	16.00		7.44	2.63
	L0000141	554648.30	4197479.55	3.56	2.83	2.51E-7	16.00		7.44	2.63
	L0000142	554648.44	4197463.55	3.95	2.83	2.51E-7	16.00		7.44	2.63
	L0000143	554648.58	4197447.55	3.69	2.83	2.51E-7	16.00		7.44	2.63
	L0000144	554648.73	4197431.55	3.58	2.83	2.51E-7	16.00		7.44	2.63
	L0000145	554648.87	4197415.55	3.85	2.83	2.51E-7	16.00		7.44	2.63

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimension [m]	Initial Vertical Dimension [m]
HWY580	L0000185	554381.91	4197960.62	3.00	2.83	5.24E-7	36.00		16.74	2.63
	L0000186	554416.32	4197950.06	3.00	2.83	5.24E-7	36.00		16.74	2.63
	L0000187	554451.51	4197942.56	3.00	2.83	5.24E-7	36.00		16.74	2.63
	L0000188	554486.83	4197935.59	3.00	2.83	5.24E-7	36.00		16.74	2.63
	L0000189	554522.31	4197929.52	3.00	2.83	5.24E-7	36.00		16.74	2.63
	L0000190	554557.83	4197923.70	3.00	2.83	5.24E-7	36.00		16.74	2.63
	L0000191	554593.72	4197920.93	2.90	2.83	5.24E-7	36.00		16.74	2.63
	L0000192	554629.64	4197918.57	2.12	2.83	5.24E-7	36.00		16.74	2.63
	L0000193	554665.62	4197917.67	2.00	2.83	5.24E-7	36.00		16.74	2.63
	L0000194	554701.62	4197917.72	1.73	2.83	5.24E-7	36.00		16.74	2.63
	L0000195	554737.62	4197917.95	1.00	2.83	5.24E-7	36.00		16.74	2.63
	L0000196	554773.62	4197918.15	1.00	2.83	5.24E-7	36.00		16.74	2.63
	L0000197	554809.62	4197918.22	1.00	2.83	5.24E-7	36.00		16.74	2.63
	L0000198	554845.62	4197918.28	2.00	2.83	5.24E-7	36.00		16.74	2.63
	L0000199	554881.62	4197918.35	2.00	2.83	5.24E-7	36.00		16.74	2.63

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m]	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimension [m]	Initial Vertical Dimension [m]
HWY580	L0000200	554917.62	4197918.42	2.00	2.83	5.24E-7	36.00		16.74	2.63
	L0000201	554953.62	4197918.50	2.00	2.83	5.24E-7	36.00		16.74	2.63
	L0000202	554989.62	4197918.59	2.87	2.83	5.24E-7	36.00		16.74	2.63
	L0000203	555025.62	4197918.69	3.00	2.83	5.24E-7	36.00		16.74	2.63
	L0000204	555061.62	4197918.79	2.75	2.83	5.24E-7	36.00		16.74	2.63
	L0000205	555097.62	4197918.88	2.04	2.83	5.24E-7	36.00		16.74	2.63
	L0000206	555133.62	4197918.98	2.67	2.83	5.24E-7	36.00		16.74	2.63
	L0000207	555169.62	4197919.08	2.21	2.83	5.24E-7	36.00		16.74	2.63

Receptor Pathway

AERMOD

Receptor Networks

Note: Terrain Elevations and Flagpole Heights for Network Grids are in Page RE2 - 1 (If applicable)
Generated Discrete Receptors for Multi-Tier (Risk) Grid and Receptor Locations for Fenceline Grid are in Page RE3 - 1 (If applicable)

Discrete Receptors

Discrete Cartesian Receptors

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)
1	554420.89	4197553.37	School	5.10	1.50
2	554420.89	4197692.76	School	4.00	1.50
3	554195.92	4197692.00	School	4.48	1.50
4	554173.47	4197639.15	School	5.00	1.50
5	554287.87	4197549.73	School	5.22	1.50
6	554295.47	4197547.92	School	5.29	1.50
7	554420.89	4197558.35	School	5.00	1.50
8	554420.89	4197563.33	School	5.00	1.50
9	554420.89	4197568.31	School	5.00	1.50
10	554420.89	4197573.28	School	5.00	1.50
11	554420.89	4197578.26	School	5.00	1.50
12	554420.89	4197583.24	School	5.00	1.50
13	554420.89	4197588.22	School	5.00	1.50
14	554420.89	4197593.20	School	5.00	1.50
15	554420.89	4197598.17	School	5.00	1.50
16	554420.89	4197603.15	School	5.00	1.50
17	554420.89	4197608.13	School	5.00	1.50
18	554420.89	4197613.11	School	5.00	1.50
19	554420.89	4197618.09	School	4.95	1.50
20	554420.89	4197623.07	School	4.78	1.50
21	554420.89	4197628.04	School	4.61	1.50
22	554420.89	4197633.02	School	4.45	1.50
23	554420.89	4197638.00	School	4.28	1.50
24	554420.89	4197642.98	School	4.12	1.50
25	554420.89	4197647.96	School	4.00	1.50
26	554420.89	4197652.93	School	4.00	1.50
27	554420.89	4197657.91	School	4.00	1.50
28	554420.89	4197662.89	School	4.00	1.50
29	554420.89	4197667.87	School	4.00	1.50
30	554420.89	4197672.85	School	4.00	1.50

Receptor Pathway

						AERMOD
31	554420.89	4197677.83	School	4.00		1.50
32	554420.89	4197682.80	School	4.00		1.50
33	554420.89	4197687.78	School	4.00		1.50
34	554415.89	4197692.74	School	4.00		1.50
35	554410.89	4197692.73	School	4.00		1.50
36	554405.89	4197692.71	School	4.00		1.50
37	554400.89	4197692.69	School	4.00		1.50
38	554395.89	4197692.68	School	4.00		1.50
39	554390.89	4197692.66	School	4.00		1.50
40	554385.89	4197692.64	School	4.00		1.50
41	554380.90	4197692.63	School	4.00		1.50
42	554375.90	4197692.61	School	4.00		1.50
43	554370.90	4197692.59	School	4.00		1.50
44	554365.90	4197692.57	School	4.00		1.50
45	554360.90	4197692.56	School	4.04		1.50
46	554355.90	4197692.54	School	4.12		1.50
47	554350.90	4197692.52	School	4.20		1.50
48	554345.90	4197692.51	School	4.28		1.50
49	554340.90	4197692.49	School	4.35		1.50
50	554335.90	4197692.47	School	4.43		1.50
51	554330.90	4197692.46	School	4.42		1.50
52	554325.90	4197692.44	School	4.35		1.50
53	554320.90	4197692.42	School	4.27		1.50
54	554315.90	4197692.41	School	4.19		1.50
55	554310.90	4197692.39	School	4.11		1.50
56	554305.91	4197692.37	School	4.04		1.50
57	554300.91	4197692.36	School	4.04		1.50
58	554295.91	4197692.34	School	4.12		1.50
59	554290.91	4197692.32	School	4.20		1.50
60	554285.91	4197692.30	School	4.28		1.50
61	554280.91	4197692.29	School	4.36		1.50
62	554275.91	4197692.27	School	4.44		1.50
63	554270.91	4197692.25	School	4.47		1.50
64	554265.91	4197692.24	School	4.47		1.50
65	554260.91	4197692.22	School	4.48		1.50
66	554255.91	4197692.20	School	4.48		1.50
67	554250.91	4197692.19	School	4.48		1.50
68	554245.91	4197692.17	School	4.48		1.50

Receptor Pathway

						AERMOD
69	554240.91	4197692.15	School	4.48		1.50
70	554235.91	4197692.14	School	4.48		1.50
71	554230.92	4197692.12	School	4.48		1.50
72	554225.92	4197692.10	School	4.48		1.50
73	554220.92	4197692.08	School	4.48		1.50
74	554215.92	4197692.07	School	4.48		1.50
75	554210.92	4197692.05	School	4.48		1.50
76	554205.92	4197692.03	School	4.48		1.50
77	554200.92	4197692.02	School	4.48		1.50
78	554194.05	4197687.60	School	4.63		1.50
79	554192.18	4197683.19	School	4.78		1.50
80	554190.31	4197678.79	School	4.92		1.50
81	554188.44	4197674.38	School	5.00		1.50
82	554186.57	4197669.98	School	5.00		1.50
83	554184.70	4197665.58	School	5.00		1.50
84	554182.82	4197661.17	School	5.00		1.50
85	554180.95	4197656.77	School	5.00		1.50
86	554179.08	4197652.36	School	5.00		1.50
87	554177.21	4197647.96	School	5.00		1.50
88	554175.34	4197643.55	School	5.00		1.50
89	554177.28	4197636.17	School	5.00		1.50
90	554181.10	4197633.19	School	5.00		1.50
91	554184.91	4197630.21	School	5.00		1.50
92	554188.72	4197627.23	School	5.00		1.50
93	554192.54	4197624.25	School	5.00		1.50
94	554196.35	4197621.27	School	5.00		1.50
95	554200.16	4197618.29	School	5.00		1.50
96	554203.98	4197615.31	School	5.00		1.50
97	554207.79	4197612.32	School	5.00		1.50
98	554211.60	4197609.34	School	5.00		1.50
99	554215.42	4197606.36	School	5.00		1.50
100	554219.23	4197603.38	School	5.00		1.50
101	554223.04	4197600.40	School	5.00		1.50
102	554226.86	4197597.42	School	5.00		1.50
103	554230.67	4197594.44	School	5.00		1.50
104	554234.48	4197591.46	School	5.00		1.50
105	554238.30	4197588.48	School	5.00		1.50
106	554242.11	4197585.50	School	5.00		1.50

Receptor Pathway

					AERMOD
107	554245.92	4197582.52	School	5.00	1.50
108	554249.74	4197579.54	School	5.00	1.50
109	554253.55	4197576.56	School	5.00	1.50
110	554257.36	4197573.58	School	5.00	1.50
111	554261.18	4197570.60	School	5.00	1.50
112	554264.99	4197567.61	School	5.00	1.50
113	554268.80	4197564.63	School	5.00	1.50
114	554272.62	4197561.65	School	5.00	1.50
115	554276.43	4197558.67	School	5.00	1.50
116	554280.24	4197555.69	School	5.03	1.50
117	554284.06	4197552.71	School	5.13	1.50
118	554291.67	4197548.83	School	5.25	1.50
119	554300.29	4197548.13	School	5.28	1.50
120	554305.12	4197548.34	School	5.27	1.50
121	554309.94	4197548.55	School	5.26	1.50
122	554314.77	4197548.76	School	5.26	1.50
123	554319.59	4197548.97	School	5.25	1.50
124	554324.41	4197549.18	School	5.24	1.50
125	554329.24	4197549.39	School	5.24	1.50
126	554334.06	4197549.60	School	5.23	1.50
127	554338.88	4197549.81	School	5.22	1.50
128	554343.71	4197550.02	School	5.22	1.50
129	554348.53	4197550.23	School	5.21	1.50
130	554353.36	4197550.44	School	5.20	1.50
131	554358.18	4197550.65	School	5.19	1.50
132	554363.00	4197550.86	School	5.19	1.50
133	554367.83	4197551.06	School	5.18	1.50
134	554372.65	4197551.27	School	5.17	1.50
135	554377.48	4197551.48	School	5.17	1.50
136	554382.30	4197551.69	School	5.16	1.50
137	554387.12	4197551.90	School	5.15	1.50
138	554391.95	4197552.11	School	5.15	1.50
139	554396.77	4197552.32	School	5.14	1.50
140	554401.59	4197552.53	School	5.13	1.50
141	554406.42	4197552.74	School	5.12	1.50
142	554411.24	4197552.95	School	5.12	1.50
143	554416.07	4197553.16	School	5.11	1.50
144	554163.42	4197610.81	Res	5.00	1.50

Receptor Pathway

					AERMOD
145	554235.07	4197556.35	Res	5.29	1.50
146	554280.32	4197521.00	Res	6.00	1.50
147	554425.30	4197523.26	Res	5.95	1.50
148	554532.36	4197464.73	Res	5.53	1.50
149	554549.04	4197425.59	Res	5.30	1.50
150	554490.24	4197405.55	Res	24.11	1.50
151	554456.82	4197372.84	Res	38.54	1.50
152	554438.35	4197365.60	Res	40.29	1.50
153	554409.41	4197347.64	Res	45.07	1.50
154	554396.78	4197342.10	Res	45.69	1.50
155	554391.24	4197351.64	Res	41.75	1.50
156	554363.54	4197377.81	Res	36.48	1.50
157	554340.15	4197412.28	Res	29.06	1.50
158	554303.21	4197428.29	Res	31.41	1.50
159	554286.86	4197429.10	Res	29.53	1.50
160	554204.36	4197399.55	Res	20.24	1.50
161	554193.77	4197400.93	Res	19.51	1.50
162	554177.93	4197416.91	Res	16.80	1.50
163	554171.37	4197432.21	Res	14.98	1.50
164	554118.96	4197471.20	Res	10.26	1.50
165	554128.49	4197497.37	Res	6.00	1.50
166	554131.60	4197523.84	Res	6.00	1.50
167	554133.16	4197535.18	Res	6.00	1.50
168	554142.60	4197556.06	Res	6.00	1.50
169	554144.67	4197573.27	Res	5.61	1.50
170	554167.40	4197607.78	Res	5.00	1.50
171	554171.38	4197604.76	Res	5.00	1.50
172	554175.36	4197601.73	Res	5.00	1.50
173	554179.34	4197598.71	Res	5.00	1.50
174	554183.32	4197595.68	Res	5.00	1.50
175	554187.30	4197592.66	Res	5.00	1.50
176	554191.28	4197589.63	Res	5.00	1.50
177	554195.26	4197586.61	Res	5.00	1.50
178	554199.25	4197583.58	Res	5.10	1.50
179	554203.23	4197580.55	Res	5.20	1.50
180	554207.21	4197577.53	Res	5.30	1.50
181	554211.19	4197574.50	Res	5.40	1.50
182	554215.17	4197571.48	Res	5.47	1.50

Receptor Pathway

					AERMOD
183	554219.15	4197568.45	Res	5.49	1.50
184	554223.13	4197565.43	Res	5.48	1.50
185	554227.11	4197562.40	Res	5.44	1.50
186	554231.09	4197559.38	Res	5.38	1.50
187	554238.84	4197553.40	Res	5.25	1.50
188	554242.61	4197550.46	Res	5.23	1.50
189	554246.38	4197547.51	Res	5.30	1.50
190	554250.15	4197544.57	Res	5.40	1.50
191	554253.92	4197541.62	Res	5.50	1.50
192	554257.70	4197538.68	Res	5.59	1.50
193	554261.47	4197535.73	Res	5.69	1.50
194	554265.24	4197532.78	Res	5.79	1.50
195	554269.01	4197529.84	Res	5.89	1.50
196	554272.78	4197526.89	Res	5.99	1.50
197	554276.55	4197523.95	Res	6.00	1.50
198	554285.32	4197521.08	Res	6.00	1.50
199	554290.32	4197521.16	Res	6.00	1.50
200	554295.32	4197521.23	Res	6.00	1.50
201	554300.32	4197521.31	Res	6.00	1.50
202	554305.32	4197521.39	Res	6.00	1.50
203	554310.32	4197521.47	Res	6.00	1.50
204	554315.32	4197521.55	Res	6.00	1.50
205	554320.31	4197521.62	Res	6.00	1.50
206	554325.31	4197521.70	Res	6.00	1.50
207	554330.31	4197521.78	Res	6.00	1.50
208	554335.31	4197521.86	Res	6.00	1.50
209	554340.31	4197521.94	Res	6.00	1.50
210	554345.31	4197522.01	Res	6.00	1.50
211	554350.31	4197522.09	Res	6.00	1.50
212	554355.31	4197522.17	Res	6.00	1.50
213	554360.31	4197522.25	Res	6.00	1.50
214	554365.31	4197522.33	Res	6.00	1.50
215	554370.31	4197522.40	Res	6.00	1.50
216	554375.31	4197522.48	Res	6.00	1.50
217	554380.31	4197522.56	Res	6.00	1.50
218	554385.31	4197522.64	Res	6.00	1.50
219	554390.30	4197522.71	Res	6.00	1.50
220	554395.30	4197522.79	Res	6.00	1.50

Receptor Pathway

					AERMOD
221	554400.30	4197522.87	Res	6.00	1.50
222	554405.30	4197522.95	Res	6.00	1.50
223	554410.30	4197523.03	Res	6.00	1.50
224	554415.30	4197523.10	Res	6.00	1.50
225	554420.30	4197523.18	Res	6.00	1.50
226	554429.58	4197520.92	Res	5.84	1.50
227	554433.86	4197518.58	Res	5.75	1.50
228	554438.15	4197516.24	Res	5.68	1.50
229	554442.43	4197513.90	Res	5.64	1.50
230	554446.71	4197511.55	Res	5.61	1.50
231	554450.99	4197509.21	Res	5.61	1.50
232	554455.28	4197506.87	Res	5.65	1.50
233	554459.56	4197504.53	Res	5.73	1.50
234	554463.84	4197502.19	Res	5.81	1.50
235	554468.12	4197499.85	Res	5.89	1.50
236	554472.41	4197497.51	Res	5.97	1.50
237	554476.69	4197495.17	Res	6.19	1.50
238	554480.97	4197492.82	Res	6.58	1.50
239	554485.25	4197490.48	Res	6.90	1.50
240	554489.54	4197488.14	Res	6.97	1.50
241	554493.82	4197485.80	Res	6.96	1.50
242	554498.10	4197483.46	Res	6.85	1.50
243	554502.38	4197481.12	Res	6.66	1.50
244	554506.67	4197478.78	Res	6.37	1.50
245	554510.95	4197476.44	Res	6.00	1.50
246	554515.23	4197474.10	Res	5.71	1.50
247	554519.51	4197471.75	Res	5.66	1.50
248	554523.80	4197469.41	Res	5.60	1.50
249	554528.08	4197467.07	Res	5.51	1.50
250	554534.21	4197460.38	Res	5.76	1.50
251	554536.07	4197456.03	Res	5.87	1.50
252	554537.92	4197451.68	Res	5.85	1.50
253	554539.77	4197447.33	Res	5.71	1.50
254	554541.63	4197442.99	Res	5.44	1.50
255	554543.48	4197438.64	Res	5.04	1.50
256	554545.33	4197434.29	Res	5.07	1.50
257	554547.19	4197429.94	Res	5.19	1.50
258	554544.52	4197424.05	Res	5.40	1.50

Receptor Pathway

					AERMOD
259	554539.99	4197422.51	Res	6.39	1.50
260	554535.47	4197420.97	Res	7.56	1.50
261	554530.95	4197419.42	Res	8.72	1.50
262	554526.42	4197417.88	Res	9.86	1.50
263	554521.90	4197416.34	Res	10.99	1.50
264	554517.38	4197414.80	Res	12.10	1.50
265	554512.86	4197413.26	Res	13.33	1.50
266	554508.33	4197411.72	Res	15.30	1.50
267	554503.81	4197410.18	Res	17.35	1.50
268	554499.29	4197408.63	Res	19.50	1.50
269	554494.76	4197407.09	Res	21.74	1.50
270	554486.90	4197402.28	Res	26.39	1.50
271	554483.56	4197399.01	Res	28.75	1.50
272	554480.21	4197395.74	Res	29.96	1.50
273	554476.87	4197392.47	Res	31.17	1.50
274	554473.53	4197389.20	Res	32.38	1.50
275	554470.19	4197385.92	Res	33.59	1.50
276	554466.85	4197382.65	Res	34.80	1.50
277	554463.50	4197379.38	Res	36.01	1.50
278	554460.16	4197376.11	Res	37.22	1.50
279	554452.20	4197371.03	Res	39.51	1.50
280	554447.59	4197369.22	Res	39.72	1.50
281	554442.97	4197367.41	Res	39.97	1.50
282	554434.22	4197363.03	Res	40.96	1.50
283	554430.08	4197360.47	Res	41.70	1.50
284	554425.95	4197357.90	Res	42.52	1.50
285	554421.81	4197355.34	Res	43.23	1.50
286	554417.68	4197352.77	Res	43.80	1.50
287	554413.54	4197350.21	Res	44.41	1.50
288	554405.20	4197345.79	Res	45.40	1.50
289	554400.99	4197343.95	Res	45.57	1.50
290	554394.93	4197345.28	Res	44.49	1.50
291	554393.09	4197348.46	Res	43.10	1.50
292	554387.78	4197354.91	Res	40.59	1.50
293	554384.32	4197358.18	Res	39.58	1.50
294	554380.85	4197361.45	Res	38.72	1.50
295	554377.39	4197364.73	Res	38.01	1.50
296	554373.93	4197368.00	Res	37.44	1.50

Receptor Pathway

					AERMOD
297	554370.47	4197371.27	Res	37.04	1.50
298	554367.00	4197374.54	Res	36.78	1.50
299	554360.94	4197381.64	Res	35.28	1.50
300	554358.34	4197385.47	Res	34.20	1.50
301	554355.74	4197389.30	Res	33.23	1.50
302	554353.14	4197393.13	Res	32.36	1.50
303	554350.55	4197396.96	Res	31.61	1.50
304	554347.95	4197400.79	Res	30.97	1.50
305	554345.35	4197404.62	Res	30.43	1.50
306	554342.75	4197408.45	Res	29.81	1.50
307	554336.05	4197414.06	Res	29.54	1.50
308	554331.94	4197415.84	Res	29.89	1.50
309	554327.84	4197417.62	Res	30.03	1.50
310	554323.73	4197419.40	Res	30.20	1.50
311	554319.63	4197421.17	Res	30.41	1.50
312	554315.52	4197422.95	Res	30.65	1.50
313	554311.42	4197424.73	Res	30.91	1.50
314	554307.31	4197426.51	Res	31.22	1.50
315	554299.12	4197428.49	Res	30.94	1.50
316	554295.04	4197428.70	Res	30.47	1.50
317	554290.95	4197428.90	Res	30.00	1.50
318	554282.28	4197427.46	Res	29.57	1.50
319	554277.69	4197425.82	Res	29.60	1.50
320	554273.11	4197424.18	Res	29.51	1.50
321	554268.53	4197422.53	Res	28.54	1.50
322	554263.94	4197420.89	Res	27.62	1.50
323	554259.36	4197419.25	Res	26.75	1.50
324	554254.78	4197417.61	Res	25.93	1.50
325	554250.19	4197415.97	Res	25.15	1.50
326	554245.61	4197414.33	Res	24.43	1.50
327	554241.03	4197412.68	Res	23.93	1.50
328	554236.44	4197411.04	Res	23.47	1.50
329	554231.86	4197409.40	Res	22.92	1.50
330	554227.28	4197407.76	Res	22.26	1.50
331	554222.69	4197406.12	Res	21.49	1.50
332	554218.11	4197404.48	Res	20.64	1.50
333	554213.53	4197402.83	Res	19.85	1.50
334	554208.94	4197401.19	Res	20.05	1.50

Receptor Pathway

					AERMOD
335	554200.83	4197400.01	Res	19.99	1.50
336	554197.30	4197400.47	Res	19.75	1.50
337	554190.60	4197404.13	Res	18.72	1.50
338	554187.43	4197407.32	Res	18.01	1.50
339	554184.27	4197410.52	Res	17.48	1.50
340	554181.10	4197413.71	Res	17.12	1.50
341	554176.29	4197420.74	Res	16.34	1.50
342	554174.65	4197424.56	Res	15.89	1.50
343	554173.01	4197428.39	Res	15.43	1.50
344	554167.63	4197435.00	Res	14.73	1.50
345	554163.88	4197437.78	Res	14.47	1.50
346	554160.14	4197440.57	Res	14.21	1.50
347	554156.40	4197443.35	Res	13.97	1.50
348	554152.65	4197446.14	Res	13.84	1.50
349	554148.91	4197448.92	Res	13.87	1.50
350	554145.17	4197451.71	Res	13.81	1.50
351	554141.42	4197454.49	Res	13.66	1.50
352	554137.68	4197457.28	Res	13.41	1.50
353	554133.93	4197460.06	Res	13.08	1.50
354	554130.19	4197462.85	Res	12.64	1.50
355	554126.45	4197465.63	Res	12.12	1.50
356	554122.70	4197468.42	Res	11.43	1.50
357	554120.55	4197475.56	Res	9.75	1.50
358	554122.14	4197479.92	Res	9.14	1.50
359	554123.73	4197484.29	Res	8.44	1.50
360	554125.31	4197488.65	Res	7.55	1.50
361	554126.90	4197493.01	Res	6.68	1.50
362	554129.01	4197501.78	Res	6.00	1.50
363	554129.53	4197506.19	Res	6.00	1.50
364	554130.05	4197510.61	Res	6.00	1.50
365	554130.56	4197515.02	Res	6.00	1.50
366	554131.08	4197519.43	Res	6.00	1.50
367	554132.12	4197527.62	Res	6.00	1.50
368	554132.64	4197531.40	Res	6.00	1.50
369	554135.05	4197539.36	Res	6.00	1.50
370	554136.94	4197543.53	Res	6.00	1.50
371	554138.82	4197547.71	Res	6.00	1.50
372	554140.71	4197551.88	Res	6.00	1.50

Receptor Pathway

					AERMOD
373	554143.12	4197560.36	Res	5.92	1.50
374	554143.64	4197564.67	Res	5.82	1.50
375	554144.15	4197568.97	Res	5.72	1.50
376	554146.75	4197577.44	Res	5.46	1.50
377	554148.84	4197581.61	Res	5.30	1.50
378	554150.92	4197585.78	Res	5.11	1.50
379	554153.00	4197589.95	Res	5.02	1.50
380	554155.09	4197594.13	Res	5.00	1.50
381	554157.17	4197598.30	Res	5.00	1.50
382	554159.25	4197602.47	Res	5.00	1.50
383	554161.34	4197606.64	Res	5.00	1.50
384	554163.42	4197610.81	Res	5.00	4.50
385	554235.07	4197556.35	Res	5.29	4.50
386	554280.32	4197521.00	Res	6.00	4.50
387	554425.30	4197523.26	Res	5.95	4.50
388	554532.36	4197464.73	Res	5.53	4.50
389	554549.04	4197425.59	Res	5.30	4.50
390	554490.24	4197405.55	Res	24.11	4.50
391	554456.82	4197372.84	Res	38.54	4.50
392	554438.35	4197365.60	Res	40.29	4.50
393	554409.41	4197347.64	Res	45.07	4.50
394	554396.78	4197342.10	Res	45.69	4.50
395	554391.24	4197351.64	Res	41.75	4.50
396	554363.54	4197377.81	Res	36.48	4.50
397	554340.15	4197412.28	Res	29.06	4.50
398	554303.21	4197428.29	Res	31.41	4.50
399	554286.86	4197429.10	Res	29.53	4.50
400	554204.36	4197399.55	Res	20.24	4.50
401	554193.77	4197400.93	Res	19.51	4.50
402	554177.93	4197416.91	Res	16.80	4.50
403	554171.37	4197432.21	Res	14.98	4.50
404	554118.96	4197471.20	Res	10.26	4.50
405	554128.49	4197497.37	Res	6.00	4.50
406	554131.60	4197523.84	Res	6.00	4.50
407	554133.16	4197535.18	Res	6.00	4.50
408	554142.60	4197556.06	Res	6.00	4.50
409	554144.67	4197573.27	Res	5.61	4.50
410	554167.40	4197607.78	Res	5.00	4.50

Receptor Pathway

					AERMOD
411	554171.38	4197604.76	Res	5.00	4.50
412	554175.36	4197601.73	Res	5.00	4.50
413	554179.34	4197598.71	Res	5.00	4.50
414	554183.32	4197595.68	Res	5.00	4.50
415	554187.30	4197592.66	Res	5.00	4.50
416	554191.28	4197589.63	Res	5.00	4.50
417	554195.26	4197586.61	Res	5.00	4.50
418	554199.25	4197583.58	Res	5.10	4.50
419	554203.23	4197580.55	Res	5.20	4.50
420	554207.21	4197577.53	Res	5.30	4.50
421	554211.19	4197574.50	Res	5.40	4.50
422	554215.17	4197571.48	Res	5.47	4.50
423	554219.15	4197568.45	Res	5.49	4.50
424	554223.13	4197565.43	Res	5.48	4.50
425	554227.11	4197562.40	Res	5.44	4.50
426	554231.09	4197559.38	Res	5.38	4.50
427	554238.84	4197553.40	Res	5.25	4.50
428	554242.61	4197550.46	Res	5.23	4.50
429	554246.38	4197547.51	Res	5.30	4.50
430	554250.15	4197544.57	Res	5.40	4.50
431	554253.92	4197541.62	Res	5.50	4.50
432	554257.70	4197538.68	Res	5.59	4.50
433	554261.47	4197535.73	Res	5.69	4.50
434	554265.24	4197532.78	Res	5.79	4.50
435	554269.01	4197529.84	Res	5.89	4.50
436	554272.78	4197526.89	Res	5.99	4.50
437	554276.55	4197523.95	Res	6.00	4.50
438	554285.32	4197521.08	Res	6.00	4.50
439	554290.32	4197521.16	Res	6.00	4.50
440	554295.32	4197521.23	Res	6.00	4.50
441	554300.32	4197521.31	Res	6.00	4.50
442	554305.32	4197521.39	Res	6.00	4.50
443	554310.32	4197521.47	Res	6.00	4.50
444	554315.32	4197521.55	Res	6.00	4.50
445	554320.31	4197521.62	Res	6.00	4.50
446	554325.31	4197521.70	Res	6.00	4.50
447	554330.31	4197521.78	Res	6.00	4.50
448	554335.31	4197521.86	Res	6.00	4.50

Receptor Pathway

					AERMOD
449	554340.31	4197521.94	Res	6.00	4.50
450	554345.31	4197522.01	Res	6.00	4.50
451	554350.31	4197522.09	Res	6.00	4.50
452	554355.31	4197522.17	Res	6.00	4.50
453	554360.31	4197522.25	Res	6.00	4.50
454	554365.31	4197522.33	Res	6.00	4.50
455	554370.31	4197522.40	Res	6.00	4.50
456	554375.31	4197522.48	Res	6.00	4.50
457	554380.31	4197522.56	Res	6.00	4.50
458	554385.31	4197522.64	Res	6.00	4.50
459	554390.30	4197522.71	Res	6.00	4.50
460	554395.30	4197522.79	Res	6.00	4.50
461	554400.30	4197522.87	Res	6.00	4.50
462	554405.30	4197522.95	Res	6.00	4.50
463	554410.30	4197523.03	Res	6.00	4.50
464	554415.30	4197523.10	Res	6.00	4.50
465	554420.30	4197523.18	Res	6.00	4.50
466	554429.58	4197520.92	Res	5.84	4.50
467	554433.86	4197518.58	Res	5.75	4.50
468	554438.15	4197516.24	Res	5.68	4.50
469	554442.43	4197513.90	Res	5.64	4.50
470	554446.71	4197511.55	Res	5.61	4.50
471	554450.99	4197509.21	Res	5.61	4.50
472	554455.28	4197506.87	Res	5.65	4.50
473	554459.56	4197504.53	Res	5.73	4.50
474	554463.84	4197502.19	Res	5.81	4.50
475	554468.12	4197499.85	Res	5.89	4.50
476	554472.41	4197497.51	Res	5.97	4.50
477	554476.69	4197495.17	Res	6.19	4.50
478	554480.97	4197492.82	Res	6.58	4.50
479	554485.25	4197490.48	Res	6.90	4.50
480	554489.54	4197488.14	Res	6.97	4.50
481	554493.82	4197485.80	Res	6.96	4.50
482	554498.10	4197483.46	Res	6.85	4.50
483	554502.38	4197481.12	Res	6.66	4.50
484	554506.67	4197478.78	Res	6.37	4.50
485	554510.95	4197476.44	Res	6.00	4.50
486	554515.23	4197474.10	Res	5.71	4.50

Receptor Pathway

					AERMOD
487	554519.51	4197471.75	Res	5.66	4.50
488	554523.80	4197469.41	Res	5.60	4.50
489	554528.08	4197467.07	Res	5.51	4.50
490	554534.21	4197460.38	Res	5.76	4.50
491	554536.07	4197456.03	Res	5.87	4.50
492	554537.92	4197451.68	Res	5.85	4.50
493	554539.77	4197447.33	Res	5.71	4.50
494	554541.63	4197442.99	Res	5.44	4.50
495	554543.48	4197438.64	Res	5.04	4.50
496	554545.33	4197434.29	Res	5.07	4.50
497	554547.19	4197429.94	Res	5.19	4.50
498	554544.52	4197424.05	Res	5.40	4.50
499	554539.99	4197422.51	Res	6.39	4.50
500	554535.47	4197420.97	Res	7.56	4.50
501	554530.95	4197419.42	Res	8.72	4.50
502	554526.42	4197417.88	Res	9.86	4.50
503	554521.90	4197416.34	Res	10.99	4.50
504	554517.38	4197414.80	Res	12.10	4.50
505	554512.86	4197413.26	Res	13.33	4.50
506	554508.33	4197411.72	Res	15.30	4.50
507	554503.81	4197410.18	Res	17.35	4.50
508	554499.29	4197408.63	Res	19.50	4.50
509	554494.76	4197407.09	Res	21.74	4.50
510	554486.90	4197402.28	Res	26.39	4.50
511	554483.56	4197399.01	Res	28.75	4.50
512	554480.21	4197395.74	Res	29.96	4.50
513	554476.87	4197392.47	Res	31.17	4.50
514	554473.53	4197389.20	Res	32.38	4.50
515	554470.19	4197385.92	Res	33.59	4.50
516	554466.85	4197382.65	Res	34.80	4.50
517	554463.50	4197379.38	Res	36.01	4.50
518	554460.16	4197376.11	Res	37.22	4.50
519	554452.20	4197371.03	Res	39.51	4.50
520	554447.59	4197369.22	Res	39.72	4.50
521	554442.97	4197367.41	Res	39.97	4.50
522	554434.22	4197363.03	Res	40.96	4.50
523	554430.08	4197360.47	Res	41.70	4.50
524	554425.95	4197357.90	Res	42.52	4.50

Receptor Pathway

					AERMOD
525	554421.81	4197355.34	Res	43.23	4.50
526	554417.68	4197352.77	Res	43.80	4.50
527	554413.54	4197350.21	Res	44.41	4.50
528	554405.20	4197345.79	Res	45.40	4.50
529	554400.99	4197343.95	Res	45.57	4.50
530	554394.93	4197345.28	Res	44.49	4.50
531	554393.09	4197348.46	Res	43.10	4.50
532	554387.78	4197354.91	Res	40.59	4.50
533	554384.32	4197358.18	Res	39.58	4.50
534	554380.85	4197361.45	Res	38.72	4.50
535	554377.39	4197364.73	Res	38.01	4.50
536	554373.93	4197368.00	Res	37.44	4.50
537	554370.47	4197371.27	Res	37.04	4.50
538	554367.00	4197374.54	Res	36.78	4.50
539	554360.94	4197381.64	Res	35.28	4.50
540	554358.34	4197385.47	Res	34.20	4.50
541	554355.74	4197389.30	Res	33.23	4.50
542	554353.14	4197393.13	Res	32.36	4.50
543	554350.55	4197396.96	Res	31.61	4.50
544	554347.95	4197400.79	Res	30.97	4.50
545	554345.35	4197404.62	Res	30.43	4.50
546	554342.75	4197408.45	Res	29.81	4.50
547	554336.05	4197414.06	Res	29.54	4.50
548	554331.94	4197415.84	Res	29.89	4.50
549	554327.84	4197417.62	Res	30.03	4.50
550	554323.73	4197419.40	Res	30.20	4.50
551	554319.63	4197421.17	Res	30.41	4.50
552	554315.52	4197422.95	Res	30.65	4.50
553	554311.42	4197424.73	Res	30.91	4.50
554	554307.31	4197426.51	Res	31.22	4.50
555	554299.12	4197428.49	Res	30.94	4.50
556	554295.04	4197428.70	Res	30.47	4.50
557	554290.95	4197428.90	Res	30.00	4.50
558	554282.28	4197427.46	Res	29.57	4.50
559	554277.69	4197425.82	Res	29.60	4.50
560	554273.11	4197424.18	Res	29.51	4.50
561	554268.53	4197422.53	Res	28.54	4.50
562	554263.94	4197420.89	Res	27.62	4.50

Receptor Pathway

					AERMOD
563	554259.36	4197419.25	Res	26.75	4.50
564	554254.78	4197417.61	Res	25.93	4.50
565	554250.19	4197415.97	Res	25.15	4.50
566	554245.61	4197414.33	Res	24.43	4.50
567	554241.03	4197412.68	Res	23.93	4.50
568	554236.44	4197411.04	Res	23.47	4.50
569	554231.86	4197409.40	Res	22.92	4.50
570	554227.28	4197407.76	Res	22.26	4.50
571	554222.69	4197406.12	Res	21.49	4.50
572	554218.11	4197404.48	Res	20.64	4.50
573	554213.53	4197402.83	Res	19.85	4.50
574	554208.94	4197401.19	Res	20.05	4.50
575	554200.83	4197400.01	Res	19.99	4.50
576	554197.30	4197400.47	Res	19.75	4.50
577	554190.60	4197404.13	Res	18.72	4.50
578	554187.43	4197407.32	Res	18.01	4.50
579	554184.27	4197410.52	Res	17.48	4.50
580	554181.10	4197413.71	Res	17.12	4.50
581	554176.29	4197420.74	Res	16.34	4.50
582	554174.65	4197424.56	Res	15.89	4.50
583	554173.01	4197428.39	Res	15.43	4.50
584	554167.63	4197435.00	Res	14.73	4.50
585	554163.88	4197437.78	Res	14.47	4.50
586	554160.14	4197440.57	Res	14.21	4.50
587	554156.40	4197443.35	Res	13.97	4.50
588	554152.65	4197446.14	Res	13.84	4.50
589	554148.91	4197448.92	Res	13.87	4.50
590	554145.17	4197451.71	Res	13.81	4.50
591	554141.42	4197454.49	Res	13.66	4.50
592	554137.68	4197457.28	Res	13.41	4.50
593	554133.93	4197460.06	Res	13.08	4.50
594	554130.19	4197462.85	Res	12.64	4.50
595	554126.45	4197465.63	Res	12.12	4.50
596	554122.70	4197468.42	Res	11.43	4.50
597	554120.55	4197475.56	Res	9.75	4.50
598	554122.14	4197479.92	Res	9.14	4.50
599	554123.73	4197484.29	Res	8.44	4.50
600	554125.31	4197488.65	Res	7.55	4.50

Receptor Pathway

AERMOD

601	554126.90	4197493.01	Res	6.68	4.50
602	554129.01	4197501.78	Res	6.00	4.50
603	554129.53	4197506.19	Res	6.00	4.50
604	554130.05	4197510.61	Res	6.00	4.50
605	554130.56	4197515.02	Res	6.00	4.50
606	554131.08	4197519.43	Res	6.00	4.50
607	554132.12	4197527.62	Res	6.00	4.50
608	554132.64	4197531.40	Res	6.00	4.50
609	554135.05	4197539.36	Res	6.00	4.50
610	554136.94	4197543.53	Res	6.00	4.50
611	554138.82	4197547.71	Res	6.00	4.50
612	554140.71	4197551.88	Res	6.00	4.50
613	554143.12	4197560.36	Res	5.92	4.50
614	554143.64	4197564.67	Res	5.82	4.50
615	554144.15	4197568.97	Res	5.72	4.50
616	554146.75	4197577.44	Res	5.46	4.50
617	554148.84	4197581.61	Res	5.30	4.50
618	554150.92	4197585.78	Res	5.11	4.50
619	554153.00	4197589.95	Res	5.02	4.50
620	554155.09	4197594.13	Res	5.00	4.50
621	554157.17	4197598.30	Res	5.00	4.50
622	554159.25	4197602.47	Res	5.00	4.50
623	554161.34	4197606.64	Res	5.00	4.50

Plant Boundary Receptors

Receptor Groups

Record Number	Group ID	Group Description
1	Res	Residential Receptors
2	School	School Receptors

Meteorology Pathway

AERMOD

Met Input Data

Surface Met Data

Filename: ..\Met Data\724930.SFC

Format Type: Default AERMET format

Profile Met Data

Filename: ..\Met Data\724930.PFL

Format Type: Default AERMET format

Wind Speed



Wind Speeds are Vector Mean (Not Scalar Means)

Wind Direction

Rotation Adjustment [deg]:

Potential Temperature Profile

Base Elevation above MSL (for Primary Met Tower): 1.80 [m]

Meteorological Station Data

Stations	Station No.	Year	X Coordinate [m]	Y Coordinate [m]	Station Name
Surface		2009			OAKLAND/WSO AP
Upper Air		2009			OAKLAND/WSO AP

Data Period

Data Period to Process

Start Date: 1/1/2009

Start Hour: 1

End Date: 1/2/2014

End Hour: 24

Wind Speed Categories

Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

Sensitive Receptor Summary

C:\Project\2121_Cutting_Blvd\AERMOD\731_Cutting_Blvd\731_Cutting_Bl

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00095	ug/m^3	S-1	554420.89	4197553.37	5.10	1.50	111.00	
PERIOD		0.00141	ug/m^3	S-2	554420.89	4197692.76	4.00	1.50	111.00	
PERIOD		0.00042	ug/m^3	S-3	554195.92	4197692.00	4.48	1.50	111.00	
PERIOD		0.00039	ug/m^3	S-4	554173.47	4197639.15	5.00	1.50	111.00	
PERIOD		0.00056	ug/m^3	S-5	554287.87	4197549.73	5.22	1.50	111.00	
PERIOD		0.00058	ug/m^3	S-6	554295.47	4197547.92	5.29	1.50	111.00	
PERIOD		0.00096	ug/m^3	S-7	554420.89	4197558.35	5.00	1.50	111.00	
PERIOD		0.00097	ug/m^3	S-8	554420.89	4197563.33	5.00	1.50	111.00	
PERIOD		0.00098	ug/m^3	S-9	554420.89	4197568.31	5.00	1.50	111.00	
PERIOD		0.00099	ug/m^3	S-10	554420.89	4197573.28	5.00	1.50	111.00	
PERIOD		0.00100	ug/m^3	S-11	554420.89	4197578.26	5.00	1.50	111.00	
PERIOD		0.00101	ug/m^3	S-12	554420.89	4197583.24	5.00	1.50	111.00	
PERIOD		0.00102	ug/m^3	S-13	554420.89	4197588.22	5.00	1.50	111.00	
PERIOD		0.00103	ug/m^3	S-14	554420.89	4197593.20	5.00	1.50	111.00	
PERIOD		0.00104	ug/m^3	S-15	554420.89	4197598.17	5.00	1.50	111.00	
PERIOD		0.00105	ug/m^3	S-16	554420.89	4197603.15	5.00	1.50	111.00	
PERIOD		0.00106	ug/m^3	S-17	554420.89	4197608.13	5.00	1.50	111.00	
PERIOD		0.00107	ug/m^3	S-18	554420.89	4197613.11	5.00	1.50	111.00	
PERIOD		0.00108	ug/m^3	S-19	554420.89	4197618.09	4.95	1.50	111.00	
PERIOD		0.00109	ug/m^3	S-20	554420.89	4197623.07	4.78	1.50	111.00	

Sensitive Receptor Summary

C:\Project\2121_Cutting_Blvd\AERMOD\731_Cutting_Blvd\731_Cutting_Bl

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00110	ug/m^3	S-21	554420.89	4197628.04	4.61	1.50	111.00	
PERIOD		0.00111	ug/m^3	S-22	554420.89	4197633.02	4.45	1.50	111.00	
PERIOD		0.00112	ug/m^3	S-23	554420.89	4197638.00	4.28	1.50	111.00	
PERIOD		0.00114	ug/m^3	S-24	554420.89	4197642.98	4.12	1.50	111.00	
PERIOD		0.00115	ug/m^3	S-25	554420.89	4197647.96	4.00	1.50	111.00	
PERIOD		0.00116	ug/m^3	S-26	554420.89	4197652.93	4.00	1.50	111.00	
PERIOD		0.00117	ug/m^3	S-27	554420.89	4197657.91	4.00	1.50	111.00	
PERIOD		0.00119	ug/m^3	S-28	554420.89	4197662.89	4.00	1.50	111.00	
PERIOD		0.00121	ug/m^3	S-29	554420.89	4197667.87	4.00	1.50	111.00	
PERIOD		0.00123	ug/m^3	S-30	554420.89	4197672.85	4.00	1.50	111.00	
PERIOD		0.00126	ug/m^3	S-31	554420.89	4197677.83	4.00	1.50	111.00	
PERIOD		0.00129	ug/m^3	S-32	554420.89	4197682.80	4.00	1.50	111.00	
PERIOD		0.00134	ug/m^3	S-33	554420.89	4197687.78	4.00	1.50	111.00	
PERIOD		0.00136	ug/m^3	S-34	554415.89	4197692.74	4.00	1.50	111.00	
PERIOD		0.00132	ug/m^3	S-35	554410.89	4197692.73	4.00	1.50	111.00	
PERIOD		0.00128	ug/m^3	S-36	554405.89	4197692.71	4.00	1.50	111.00	
PERIOD		0.00124	ug/m^3	S-37	554400.89	4197692.69	4.00	1.50	111.00	
PERIOD		0.00120	ug/m^3	S-38	554395.89	4197692.68	4.00	1.50	111.00	
PERIOD		0.00116	ug/m^3	S-39	554390.89	4197692.66	4.00	1.50	111.00	
PERIOD		0.00111	ug/m^3	S-40	554385.89	4197692.64	4.00	1.50	111.00	
PERIOD		0.00106	ug/m^3	S-41	554380.90	4197692.63	4.00	1.50	111.00	

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Sensitive Receptor Summary

C:\Project\2121_Cutting_Blvd\AERMOD\731_Cutting_Blvd\731_Cutting_Bl

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00101	ug/m^3	S-42	554375.90	4197692.61	4.00	1.50	111.00	
PERIOD		0.00096	ug/m^3	S-43	554370.90	4197692.59	4.00	1.50	111.00	
PERIOD		0.00091	ug/m^3	S-44	554365.90	4197692.57	4.00	1.50	111.00	
PERIOD		0.00087	ug/m^3	S-45	554360.90	4197692.56	4.04	1.50	111.00	
PERIOD		0.00083	ug/m^3	S-46	554355.90	4197692.54	4.12	1.50	111.00	
PERIOD		0.00081	ug/m^3	S-47	554350.90	4197692.52	4.20	1.50	111.00	
PERIOD		0.00079	ug/m^3	S-48	554345.90	4197692.51	4.28	1.50	111.00	
PERIOD		0.00077	ug/m^3	S-49	554340.90	4197692.49	4.35	1.50	111.00	
PERIOD		0.00075	ug/m^3	S-50	554335.90	4197692.47	4.43	1.50	111.00	
PERIOD		0.00073	ug/m^3	S-51	554330.90	4197692.46	4.42	1.50	111.00	
PERIOD		0.00071	ug/m^3	S-52	554325.90	4197692.44	4.35	1.50	111.00	
PERIOD		0.00070	ug/m^3	S-53	554320.90	4197692.42	4.27	1.50	111.00	
PERIOD		0.00068	ug/m^3	S-54	554315.90	4197692.41	4.19	1.50	111.00	
PERIOD		0.00067	ug/m^3	S-55	554310.90	4197692.39	4.11	1.50	111.00	
PERIOD		0.00065	ug/m^3	S-56	554305.91	4197692.37	4.04	1.50	111.00	
PERIOD		0.00064	ug/m^3	S-57	554300.91	4197692.36	4.04	1.50	111.00	
PERIOD		0.00062	ug/m^3	S-58	554295.91	4197692.34	4.12	1.50	111.00	
PERIOD		0.00061	ug/m^3	S-59	554290.91	4197692.32	4.20	1.50	111.00	
PERIOD		0.00060	ug/m^3	S-60	554285.91	4197692.30	4.28	1.50	111.00	
PERIOD		0.00058	ug/m^3	S-61	554280.91	4197692.29	4.36	1.50	111.00	
PERIOD		0.00057	ug/m^3	S-62	554275.91	4197692.27	4.44	1.50	111.00	

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Sensitive Receptor Summary

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PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00056	ug/m^3	S-63	554270.91	4197692.25	4.47	1.50	111.00	
PERIOD		0.00055	ug/m^3	S-64	554265.91	4197692.24	4.47	1.50	111.00	
PERIOD		0.00054	ug/m^3	S-65	554260.91	4197692.22	4.48	1.50	111.00	
PERIOD		0.00053	ug/m^3	S-66	554255.91	4197692.20	4.48	1.50	111.00	
PERIOD		0.00052	ug/m^3	S-67	554250.91	4197692.19	4.48	1.50	111.00	
PERIOD		0.00051	ug/m^3	S-68	554245.91	4197692.17	4.48	1.50	111.00	
PERIOD		0.00050	ug/m^3	S-69	554240.91	4197692.15	4.48	1.50	111.00	
PERIOD		0.00049	ug/m^3	S-70	554235.91	4197692.14	4.48	1.50	111.00	
PERIOD		0.00048	ug/m^3	S-71	554230.92	4197692.12	4.48	1.50	111.00	
PERIOD		0.00047	ug/m^3	S-72	554225.92	4197692.10	4.48	1.50	111.00	
PERIOD		0.00046	ug/m^3	S-73	554220.92	4197692.08	4.48	1.50	111.00	
PERIOD		0.00045	ug/m^3	S-74	554215.92	4197692.07	4.48	1.50	111.00	
PERIOD		0.00045	ug/m^3	S-75	554210.92	4197692.05	4.48	1.50	111.00	
PERIOD		0.00044	ug/m^3	S-76	554205.92	4197692.03	4.48	1.50	111.00	
PERIOD		0.00043	ug/m^3	S-77	554200.92	4197692.02	4.48	1.50	111.00	
PERIOD		0.00042	ug/m^3	S-78	554194.05	4197687.60	4.63	1.50	111.00	
PERIOD		0.00042	ug/m^3	S-79	554192.18	4197683.19	4.78	1.50	111.00	
PERIOD		0.00041	ug/m^3	S-80	554190.31	4197678.79	4.92	1.50	111.00	
PERIOD		0.00041	ug/m^3	S-81	554188.44	4197674.38	5.00	1.50	111.00	
PERIOD		0.00041	ug/m^3	S-82	554186.57	4197669.98	5.00	1.50	111.00	
PERIOD		0.00041	ug/m^3	S-83	554184.69	4197665.58	5.00	1.50	111.00	

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Sensitive Receptor Summary

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PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00040	ug/m^3	S-84	554182.82	4197661.17	5.00	1.50	111.00	
PERIOD		0.00040	ug/m^3	S-85	554180.95	4197656.77	5.00	1.50	111.00	
PERIOD		0.00040	ug/m^3	S-86	554179.08	4197652.36	5.00	1.50	111.00	
PERIOD		0.00040	ug/m^3	S-87	554177.21	4197647.96	5.00	1.50	111.00	
PERIOD		0.00039	ug/m^3	S-88	554175.34	4197643.55	5.00	1.50	111.00	
PERIOD		0.00040	ug/m^3	S-89	554177.28	4197636.17	5.00	1.50	111.00	
PERIOD		0.00040	ug/m^3	S-90	554181.10	4197633.19	5.00	1.50	111.00	
PERIOD		0.00041	ug/m^3	S-91	554184.91	4197630.21	5.00	1.50	111.00	
PERIOD		0.00041	ug/m^3	S-92	554188.72	4197627.23	5.00	1.50	111.00	
PERIOD		0.00042	ug/m^3	S-93	554192.54	4197624.25	5.00	1.50	111.00	
PERIOD		0.00042	ug/m^3	S-94	554196.35	4197621.27	5.00	1.50	111.00	
PERIOD		0.00043	ug/m^3	S-95	554200.16	4197618.29	5.00	1.50	111.00	
PERIOD		0.00043	ug/m^3	S-96	554203.98	4197615.31	5.00	1.50	111.00	
PERIOD		0.00044	ug/m^3	S-97	554207.79	4197612.32	5.00	1.50	111.00	
PERIOD		0.00044	ug/m^3	S-98	554211.60	4197609.34	5.00	1.50	111.00	
PERIOD		0.00045	ug/m^3	S-99	554215.42	4197606.36	5.00	1.50	111.00	
PERIOD		0.00045	ug/m^3	S-100	554219.23	4197603.38	5.00	1.50	111.00	
PERIOD		0.00046	ug/m^3	S-101	554223.04	4197600.40	5.00	1.50	111.00	
PERIOD		0.00047	ug/m^3	S-102	554226.86	4197597.42	5.00	1.50	111.00	
PERIOD		0.00047	ug/m^3	S-103	554230.67	4197594.44	5.00	1.50	111.00	
PERIOD		0.00048	ug/m^3	S-104	554234.48	4197591.46	5.00	1.50	111.00	

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Sensitive Receptor Summary

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PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00048	ug/m^3	S-105	554238.30	4197588.48	5.00	1.50	111.00	
PERIOD		0.00049	ug/m^3	S-106	554242.11	4197585.50	5.00	1.50	111.00	
PERIOD		0.00049	ug/m^3	S-107	554245.92	4197582.52	5.00	1.50	111.00	
PERIOD		0.00050	ug/m^3	S-108	554249.74	4197579.54	5.00	1.50	111.00	
PERIOD		0.00051	ug/m^3	S-109	554253.55	4197576.56	5.00	1.50	111.00	
PERIOD		0.00051	ug/m^3	S-110	554257.36	4197573.58	5.00	1.50	111.00	
PERIOD		0.00052	ug/m^3	S-111	554261.18	4197570.60	5.00	1.50	111.00	
PERIOD		0.00052	ug/m^3	S-112	554264.99	4197567.61	5.00	1.50	111.00	
PERIOD		0.00053	ug/m^3	S-113	554268.80	4197564.63	5.00	1.50	111.00	
PERIOD		0.00054	ug/m^3	S-114	554272.62	4197561.65	5.00	1.50	111.00	
PERIOD		0.00054	ug/m^3	S-115	554276.43	4197558.67	5.00	1.50	111.00	
PERIOD		0.00055	ug/m^3	S-116	554280.24	4197555.69	5.03	1.50	111.00	
PERIOD		0.00056	ug/m^3	S-117	554284.06	4197552.71	5.13	1.50	111.00	
PERIOD		0.00057	ug/m^3	S-118	554291.67	4197548.83	5.25	1.50	111.00	
PERIOD		0.00059	ug/m^3	S-119	554300.29	4197548.13	5.28	1.50	111.00	
PERIOD		0.00060	ug/m^3	S-120	554305.12	4197548.34	5.27	1.50	111.00	
PERIOD		0.00061	ug/m^3	S-121	554309.94	4197548.55	5.26	1.50	111.00	
PERIOD		0.00062	ug/m^3	S-122	554314.77	4197548.76	5.26	1.50	111.00	
PERIOD		0.00063	ug/m^3	S-123	554319.59	4197548.97	5.25	1.50	111.00	
PERIOD		0.00064	ug/m^3	S-124	554324.41	4197549.18	5.24	1.50	111.00	
PERIOD		0.00066	ug/m^3	S-125	554329.24	4197549.39	5.24	1.50	111.00	

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Sensitive Receptor Summary

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PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00067	ug/m^3	S-126	554334.06	4197549.60	5.23	1.50	111.00	
PERIOD		0.00068	ug/m^3	S-127	554338.88	4197549.81	5.22	1.50	111.00	
PERIOD		0.00069	ug/m^3	S-128	554343.71	4197550.02	5.22	1.50	111.00	
PERIOD		0.00071	ug/m^3	S-129	554348.53	4197550.23	5.21	1.50	111.00	
PERIOD		0.00072	ug/m^3	S-130	554353.36	4197550.43	5.20	1.50	111.00	
PERIOD		0.00073	ug/m^3	S-131	554358.18	4197550.64	5.19	1.50	111.00	
PERIOD		0.00075	ug/m^3	S-132	554363.00	4197550.86	5.19	1.50	111.00	
PERIOD		0.00076	ug/m^3	S-133	554367.83	4197551.06	5.18	1.50	111.00	
PERIOD		0.00078	ug/m^3	S-134	554372.65	4197551.27	5.17	1.50	111.00	
PERIOD		0.00079	ug/m^3	S-135	554377.48	4197551.48	5.17	1.50	111.00	
PERIOD		0.00081	ug/m^3	S-136	554382.30	4197551.69	5.16	1.50	111.00	
PERIOD		0.00083	ug/m^3	S-137	554387.12	4197551.90	5.15	1.50	111.00	
PERIOD		0.00084	ug/m^3	S-138	554391.95	4197552.11	5.15	1.50	111.00	
PERIOD		0.00086	ug/m^3	S-139	554396.77	4197552.32	5.14	1.50	111.00	
PERIOD		0.00088	ug/m^3	S-140	554401.59	4197552.53	5.13	1.50	111.00	
PERIOD		0.00089	ug/m^3	S-141	554406.42	4197552.74	5.12	1.50	111.00	
PERIOD		0.00091	ug/m^3	S-142	554411.24	4197552.95	5.12	1.50	111.00	
PERIOD		0.00093	ug/m^3	S-143	554416.07	4197553.16	5.11	1.50	111.00	
PERIOD		0.00048	ug/m^3	R-2	554235.07	4197556.35	5.29	4.50	111.00	
PERIOD		0.00054	ug/m^3	R-3	554280.32	4197521.00	6.00	1.50	111.00	
PERIOD		0.00081	ug/m^3	R-6	554549.04	4197425.59	5.30	1.50	111.00	

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Sensitive Receptor Summary

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PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00036	ug/m^3	R-10	554409.41	4197347.64	45.07	1.50	111.00	
PERIOD		0.00035	ug/m^3	R-11	554396.78	4197342.10	45.69	1.50	111.00	
PERIOD		0.00037	ug/m^3	R-12	554391.24	4197351.64	41.75	1.50	111.00	
PERIOD		0.00045	ug/m^3	R-14	554340.15	4197412.28	29.06	1.50	111.00	
PERIOD		0.00041	ug/m^3	R-16	554286.86	4197429.10	29.53	1.50	111.00	
PERIOD		0.00035	ug/m^3	R-17	554204.36	4197399.55	20.24	1.50	111.00	
PERIOD		0.00034	ug/m^3	R-19	554177.93	4197416.91	16.80	1.50	111.00	
PERIOD		0.00034	ug/m^3	R-20	554171.37	4197432.21	14.98	1.50	111.00	
PERIOD		0.00032	ug/m^3	R-21	554118.96	4197471.20	10.26	1.50	111.00	
PERIOD		0.00034	ug/m^3	R-23	554131.60	4197523.84	6.00	1.50	111.00	
PERIOD		0.00036	ug/m^3	R-25	554142.60	4197556.06	6.00	1.50	111.00	
PERIOD		0.00040	ug/m^3	R-28	554171.38	4197604.76	5.00	4.50	111.00	
PERIOD		0.00040	ug/m^3	R-29	554175.36	4197601.73	5.00	4.50	111.00	
PERIOD		0.00042	ug/m^3	R-32	554187.30	4197592.66	5.00	4.50	111.00	
PERIOD		0.00043	ug/m^3	R-34	554195.26	4197586.61	5.00	4.50	111.00	
PERIOD		0.00044	ug/m^3	R-36	554203.23	4197580.55	5.20	4.50	111.00	
PERIOD		0.00044	ug/m^3	R-37	554207.21	4197577.53	5.30	4.50	111.00	
PERIOD		0.00045	ug/m^3	R-38	554211.19	4197574.50	5.40	4.50	111.00	
PERIOD		0.00045	ug/m^3	R-39	554215.17	4197571.48	5.47	4.50	111.00	
PERIOD		0.00047	ug/m^3	R-43	554231.09	4197559.38	5.38	4.50	111.00	
PERIOD		0.00048	ug/m^3	R-44	554238.84	4197553.40	5.25	4.50	111.00	

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10/20/2021

Sensitive Receptor Summary

C:\Project\2121_Cutting_Blvd\AERMOD\731_Cutting_Blvd\731_Cutting_Bl

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00049	ug/m^3	R-45	554242.61	4197550.46	5.23	4.50	111.00	
PERIOD		0.00051	ug/m^3	R-49	554257.69	4197538.68	5.59	1.50	111.00	
PERIOD		0.00053	ug/m^3	R-53	554272.78	4197526.89	5.99	1.50	111.00	
PERIOD		0.00053	ug/m^3	R-54	554276.55	4197523.95	6.00	1.50	111.00	
PERIOD		0.00055	ug/m^3	R-55	554285.32	4197521.08	6.00	1.50	111.00	
PERIOD		0.00058	ug/m^3	R-58	554300.32	4197521.31	6.00	1.50	111.00	
PERIOD		0.00059	ug/m^3	R-59	554305.32	4197521.39	6.00	1.50	111.00	
PERIOD		0.00063	ug/m^3	R-63	554325.31	4197521.70	6.00	1.50	111.00	
PERIOD		0.00064	ug/m^3	R-64	554330.31	4197521.78	6.00	1.50	111.00	
PERIOD		0.00066	ug/m^3	R-66	554340.31	4197521.93	6.00	1.50	111.00	
PERIOD		0.00068	ug/m^3	R-68	554350.31	4197522.09	6.00	1.50	111.00	
PERIOD		0.00075	ug/m^3	R-73	554375.31	4197522.48	6.00	1.50	111.00	
PERIOD		0.00079	ug/m^3	R-76	554390.30	4197522.71	6.00	1.50	111.00	
PERIOD		0.00082	ug/m^3	R-78	554400.30	4197522.87	6.00	1.50	111.00	
PERIOD		0.00090	ug/m^3	R-83	554429.58	4197520.92	5.84	1.50	111.00	
PERIOD		0.00090	ug/m^3	R-84	554433.86	4197518.58	5.75	1.50	111.00	
PERIOD		0.00092	ug/m^3	R-87	554446.71	4197511.55	5.61	1.50	111.00	
PERIOD		0.00093	ug/m^3	R-88	554450.99	4197509.21	5.61	1.50	111.00	
PERIOD		0.00093	ug/m^3	R-89	554455.28	4197506.87	5.65	1.50	111.00	
PERIOD		0.00094	ug/m^3	R-90	554459.56	4197504.53	5.73	1.50	111.00	
PERIOD		0.00094	ug/m^3	R-92	554468.12	4197499.85	5.89	1.50	111.00	

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Sensitive Receptor Summary

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PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00094	ug/m^3	R-93	554472.41	4197497.51	5.97	1.50	111.00	
PERIOD		0.00094	ug/m^3	R-94	554476.69	4197495.17	6.19	1.50	111.00	
PERIOD		0.00094	ug/m^3	R-95	554480.97	4197492.82	6.58	1.50	111.00	
PERIOD		0.00094	ug/m^3	R-96	554485.25	4197490.48	6.90	1.50	111.00	
PERIOD		0.00094	ug/m^3	R-98	554493.82	4197485.80	6.96	1.50	111.00	
PERIOD		0.00094	ug/m^3	R-99	554498.10	4197483.46	6.85	1.50	111.00	
PERIOD		0.00094	ug/m^3	R-100	554502.38	4197481.12	6.66	1.50	111.00	
PERIOD		0.00094	ug/m^3	R-101	554506.67	4197478.78	6.37	1.50	111.00	
PERIOD		0.00094	ug/m^3	R-102	554510.95	4197476.44	6.00	1.50	111.00	
PERIOD		0.00094	ug/m^3	R-103	554515.23	4197474.10	5.71	1.50	111.00	
PERIOD		0.00094	ug/m^3	R-105	554523.80	4197469.41	5.60	1.50	111.00	
PERIOD		0.00091	ug/m^3	R-107	554534.21	4197460.38	5.76	1.50	111.00	
PERIOD		0.00087	ug/m^3	R-110	554539.77	4197447.33	5.71	1.50	111.00	
PERIOD		0.00086	ug/m^3	R-112	554543.48	4197438.64	5.04	1.50	111.00	
PERIOD		0.00084	ug/m^3	R-113	554545.33	4197434.29	5.07	1.50	111.00	
PERIOD		0.00075	ug/m^3	R-117	554535.47	4197420.97	7.56	1.50	111.00	
PERIOD		0.00069	ug/m^3	R-121	554517.38	4197414.80	12.10	1.50	111.00	
PERIOD		0.00065	ug/m^3	R-123	554508.33	4197411.72	15.30	1.50	111.00	
PERIOD		0.00063	ug/m^3	R-124	554503.81	4197410.18	17.35	1.50	111.00	
PERIOD		0.00061	ug/m^3	R-125	554499.29	4197408.63	19.50	1.50	111.00	
PERIOD		0.00059	ug/m^3	R-126	554494.76	4197407.09	21.74	1.50	111.00	

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Sensitive Receptor Summary

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PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00052	ug/m^3	R-129	554480.21	4197395.74	29.96	1.50	111.00	
PERIOD		0.00050	ug/m^3	R-130	554476.87	4197392.47	31.17	1.50	111.00	
PERIOD		0.00048	ug/m^3	R-132	554470.19	4197385.92	33.59	1.50	111.00	
PERIOD		0.00046	ug/m^3	R-133	554466.85	4197382.65	34.80	1.50	111.00	
PERIOD		0.00044	ug/m^3	R-135	554460.16	4197376.11	37.22	1.50	111.00	
PERIOD		0.00041	ug/m^3	R-138	554442.97	4197367.41	39.97	1.50	111.00	
PERIOD		0.00040	ug/m^3	R-139	554434.22	4197363.03	40.96	1.50	111.00	
PERIOD		0.00039	ug/m^3	R-141	554425.95	4197357.90	42.52	1.50	111.00	
PERIOD		0.00038	ug/m^3	R-143	554417.68	4197352.77	43.80	1.50	111.00	
PERIOD		0.00037	ug/m^3	R-144	554413.54	4197350.21	44.41	1.50	111.00	
PERIOD		0.00036	ug/m^3	R-148	554393.09	4197348.46	43.10	1.50	111.00	
PERIOD		0.00037	ug/m^3	R-149	554387.78	4197354.91	40.59	1.50	111.00	
PERIOD		0.00038	ug/m^3	R-151	554380.85	4197361.45	38.72	1.50	111.00	
PERIOD		0.00039	ug/m^3	R-152	554377.39	4197364.72	38.01	1.50	111.00	
PERIOD		0.00039	ug/m^3	R-153	554373.93	4197368.00	37.44	1.50	111.00	
PERIOD		0.00042	ug/m^3	R-158	554355.74	4197389.30	33.23	1.50	111.00	
PERIOD		0.00042	ug/m^3	R-159	554353.14	4197393.13	32.36	1.50	111.00	
PERIOD		0.00044	ug/m^3	R-162	554345.35	4197404.62	30.43	1.50	111.00	
PERIOD		0.00044	ug/m^3	R-163	554342.75	4197408.45	29.81	1.50	111.00	
PERIOD		0.00044	ug/m^3	R-166	554327.84	4197417.62	30.03	1.50	111.00	
PERIOD		0.00043	ug/m^3	R-167	554323.73	4197419.40	30.20	1.50	111.00	

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Sensitive Receptor Summary

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PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00043	ug/m^3	R-169	554315.52	4197422.95	30.65	1.50	111.00	
PERIOD		0.00042	ug/m^3	R-170	554311.42	4197424.73	30.91	1.50	111.00	
PERIOD		0.00042	ug/m^3	R-171	554307.31	4197426.51	31.22	1.50	111.00	
PERIOD		0.00041	ug/m^3	R-172	554299.12	4197428.49	30.94	1.50	111.00	
PERIOD		0.00041	ug/m^3	R-174	554290.95	4197428.90	30.00	1.50	111.00	
PERIOD		0.00040	ug/m^3	R-175	554282.28	4197427.46	29.57	1.50	111.00	
PERIOD		0.00039	ug/m^3	R-177	554273.11	4197424.18	29.51	1.50	111.00	
PERIOD		0.00039	ug/m^3	R-180	554259.36	4197419.25	26.75	1.50	111.00	
PERIOD		0.00038	ug/m^3	R-181	554254.78	4197417.61	25.93	1.50	111.00	
PERIOD		0.00038	ug/m^3	R-182	554250.19	4197415.97	25.15	1.50	111.00	
PERIOD		0.00038	ug/m^3	R-184	554241.03	4197412.68	23.93	1.50	111.00	
PERIOD		0.00037	ug/m^3	R-185	554236.44	4197411.04	23.47	1.50	111.00	
PERIOD		0.00036	ug/m^3	R-188	554222.69	4197406.12	21.49	1.50	111.00	
PERIOD		0.00036	ug/m^3	R-189	554218.11	4197404.47	20.64	1.50	111.00	
PERIOD		0.00036	ug/m^3	R-190	554213.53	4197402.83	19.85	1.50	111.00	
PERIOD		0.00035	ug/m^3	R-191	554208.94	4197401.19	20.05	1.50	111.00	
PERIOD		0.00034	ug/m^3	R-194	554190.60	4197404.13	18.72	1.50	111.00	
PERIOD		0.00034	ug/m^3	R-195	554187.43	4197407.32	18.01	1.50	111.00	
PERIOD		0.00034	ug/m^3	R-197	554181.10	4197413.71	17.12	1.50	111.00	
PERIOD		0.00034	ug/m^3	R-202	554163.88	4197437.78	14.47	1.50	111.00	
PERIOD		0.00033	ug/m^3	R-206	554148.91	4197448.92	13.87	1.50	111.00	

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Sensitive Receptor Summary

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PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00033	ug/m^3	R-208	554141.42	4197454.49	13.66	1.50	111.00	
PERIOD		0.00033	ug/m^3	R-209	554137.68	4197457.28	13.41	1.50	111.00	
PERIOD		0.00032	ug/m^3	R-211	554130.19	4197462.85	12.64	1.50	111.00	
PERIOD		0.00032	ug/m^3	R-212	554126.45	4197465.63	12.12	1.50	111.00	
PERIOD		0.00032	ug/m^3	R-213	554122.70	4197468.42	11.43	1.50	111.00	
PERIOD		0.00032	ug/m^3	R-214	554120.55	4197475.56	9.75	1.50	111.00	
PERIOD		0.00032	ug/m^3	R-215	554122.14	4197479.92	9.14	1.50	111.00	
PERIOD		0.00033	ug/m^3	R-216	554123.73	4197484.29	8.44	1.50	111.00	
PERIOD		0.00033	ug/m^3	R-218	554126.90	4197493.01	6.68	1.50	111.00	
PERIOD		0.00034	ug/m^3	R-221	554130.05	4197510.61	6.00	1.50	111.00	
PERIOD		0.00034	ug/m^3	R-223	554131.08	4197519.43	6.00	1.50	111.00	
PERIOD		0.00034	ug/m^3	R-224	554132.12	4197527.62	6.00	1.50	111.00	
PERIOD		0.00035	ug/m^3	R-225	554132.64	4197531.40	6.00	1.50	111.00	
PERIOD		0.00035	ug/m^3	R-228	554138.82	4197547.71	6.00	1.50	111.00	
PERIOD		0.00036	ug/m^3	R-229	554140.71	4197551.88	6.00	1.50	111.00	
PERIOD		0.00036	ug/m^3	R-232	554144.15	4197568.97	5.72	1.50	111.00	
PERIOD		0.00037	ug/m^3	R-233	554146.75	4197577.44	5.46	4.50	111.00	
PERIOD		0.00037	ug/m^3	R-234	554148.84	4197581.61	5.30	4.50	111.00	
PERIOD		0.00037	ug/m^3	R-235	554150.92	4197585.78	5.11	4.50	111.00	
PERIOD		0.00038	ug/m^3	R-236	554153.00	4197589.95	5.02	4.50	111.00	
PERIOD		0.00038	ug/m^3	R-237	554155.09	4197594.13	5.00	4.50	111.00	

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Sensitive Receptor Summary

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PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00039	ug/m^3	R-1	554163.42	4197610.81	5.00	4.50	111.00	
PERIOD		0.00089	ug/m^3	R-4	554425.30	4197523.26	5.95	1.50	111.00	
PERIOD		0.00093	ug/m^3	R-5	554532.36	4197464.73	5.53	1.50	111.00	
PERIOD		0.00057	ug/m^3	R-7	554490.24	4197405.55	24.11	1.50	111.00	
PERIOD		0.00043	ug/m^3	R-8	554456.82	4197372.84	38.54	1.50	111.00	
PERIOD		0.00041	ug/m^3	R-9	554438.35	4197365.60	40.29	1.50	111.00	
PERIOD		0.00040	ug/m^3	R-13	554363.54	4197377.81	36.48	1.50	111.00	
PERIOD		0.00042	ug/m^3	R-15	554303.21	4197428.29	31.41	1.50	111.00	
PERIOD		0.00034	ug/m^3	R-18	554193.77	4197400.93	19.51	1.50	111.00	
PERIOD		0.00034	ug/m^3	R-22	554128.49	4197497.37	6.00	1.50	111.00	
PERIOD		0.00035	ug/m^3	R-24	554133.16	4197535.18	6.00	1.50	111.00	
PERIOD		0.00036	ug/m^3	R-26	554144.67	4197573.27	5.61	1.50	111.00	
PERIOD		0.00039	ug/m^3	R-27	554167.40	4197607.78	5.00	4.50	111.00	
PERIOD		0.00041	ug/m^3	R-30	554179.34	4197598.71	5.00	4.50	111.00	
PERIOD		0.00041	ug/m^3	R-31	554183.32	4197595.68	5.00	4.50	111.00	
PERIOD		0.00042	ug/m^3	R-33	554191.28	4197589.63	5.00	4.50	111.00	
PERIOD		0.00043	ug/m^3	R-35	554199.25	4197583.58	5.10	4.50	111.00	
PERIOD		0.00046	ug/m^3	R-40	554219.15	4197568.45	5.49	4.50	111.00	
PERIOD		0.00046	ug/m^3	R-41	554223.13	4197565.43	5.48	4.50	111.00	
PERIOD		0.00047	ug/m^3	R-42	554227.11	4197562.40	5.44	4.50	111.00	
PERIOD		0.00049	ug/m^3	R-46	554246.38	4197547.51	5.30	1.50	111.00	

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Sensitive Receptor Summary

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PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00050	ug/m^3	R-47	554250.15	4197544.57	5.40	4.50	111.00	
PERIOD		0.00050	ug/m^3	R-48	554253.92	4197541.62	5.50	1.50	111.00	
PERIOD		0.00051	ug/m^3	R-50	554261.47	4197535.73	5.69	1.50	111.00	
PERIOD		0.00052	ug/m^3	R-51	554265.24	4197532.78	5.79	1.50	111.00	
PERIOD		0.00052	ug/m^3	R-52	554269.01	4197529.84	5.89	1.50	111.00	
PERIOD		0.00056	ug/m^3	R-56	554290.32	4197521.16	6.00	1.50	111.00	
PERIOD		0.00057	ug/m^3	R-57	554295.32	4197521.23	6.00	1.50	111.00	
PERIOD		0.00060	ug/m^3	R-60	554310.32	4197521.47	6.00	1.50	111.00	
PERIOD		0.00061	ug/m^3	R-61	554315.32	4197521.55	6.00	1.50	111.00	
PERIOD		0.00062	ug/m^3	R-62	554320.31	4197521.62	6.00	1.50	111.00	
PERIOD		0.00065	ug/m^3	R-65	554335.31	4197521.86	6.00	1.50	111.00	
PERIOD		0.00067	ug/m^3	R-67	554345.31	4197522.01	6.00	1.50	111.00	
PERIOD		0.00070	ug/m^3	R-69	554355.31	4197522.17	6.00	1.50	111.00	
PERIOD		0.00071	ug/m^3	R-70	554360.31	4197522.25	6.00	1.50	111.00	
PERIOD		0.00072	ug/m^3	R-71	554365.31	4197522.33	6.00	1.50	111.00	
PERIOD		0.00073	ug/m^3	R-72	554370.31	4197522.40	6.00	1.50	111.00	
PERIOD		0.00076	ug/m^3	R-74	554380.31	4197522.56	6.00	1.50	111.00	
PERIOD		0.00077	ug/m^3	R-75	554385.31	4197522.64	6.00	1.50	111.00	
PERIOD		0.00080	ug/m^3	R-77	554395.30	4197522.79	6.00	1.50	111.00	
PERIOD		0.00083	ug/m^3	R-79	554405.30	4197522.95	6.00	1.50	111.00	
PERIOD		0.00084	ug/m^3	R-80	554410.30	4197523.03	6.00	1.50	111.00	

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Sensitive Receptor Summary

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PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00086	ug/m^3	R-81	554415.30	4197523.10	6.00	1.50	111.00	
PERIOD		0.00087	ug/m^3	R-82	554420.30	4197523.18	6.00	1.50	111.00	
PERIOD		0.00091	ug/m^3	R-85	554438.15	4197516.24	5.68	1.50	111.00	
PERIOD		0.00092	ug/m^3	R-86	554442.43	4197513.89	5.64	1.50	111.00	
PERIOD		0.00094	ug/m^3	R-91	554463.84	4197502.19	5.81	1.50	111.00	
PERIOD		0.00094	ug/m^3	R-97	554489.54	4197488.14	6.97	1.50	111.00	
PERIOD		0.00094	ug/m^3	R-104	554519.51	4197471.75	5.66	1.50	111.00	
PERIOD		0.00094	ug/m^3	R-106	554528.08	4197467.07	5.51	1.50	111.00	
PERIOD		0.00090	ug/m^3	R-108	554536.07	4197456.03	5.87	1.50	111.00	
PERIOD		0.00088	ug/m^3	R-109	554537.92	4197451.68	5.85	1.50	111.00	
PERIOD		0.00087	ug/m^3	R-111	554541.63	4197442.99	5.44	1.50	111.00	
PERIOD		0.00083	ug/m^3	R-114	554547.19	4197429.94	5.19	1.50	111.00	
PERIOD		0.00080	ug/m^3	R-115	554544.52	4197424.05	5.40	1.50	111.00	
PERIOD		0.00077	ug/m^3	R-116	554539.99	4197422.51	6.39	1.50	111.00	
PERIOD		0.00073	ug/m^3	R-118	554530.95	4197419.42	8.72	1.50	111.00	
PERIOD		0.00072	ug/m^3	R-119	554526.42	4197417.88	9.86	1.50	111.00	
PERIOD		0.00070	ug/m^3	R-120	554521.90	4197416.34	10.99	1.50	111.00	
PERIOD		0.00067	ug/m^3	R-122	554512.86	4197413.26	13.33	1.50	111.00	
PERIOD		0.00055	ug/m^3	R-127	554486.90	4197402.28	26.39	1.50	111.00	
PERIOD		0.00053	ug/m^3	R-128	554483.56	4197399.01	28.75	1.50	111.00	
PERIOD		0.00049	ug/m^3	R-131	554473.53	4197389.20	32.38	1.50	111.00	

Project File: C:\Users\lpark\OneDrive - ADEC Solutions USA, Inc\Desktop\2121.0022 Cutting Blvd Industrial\Cutting_Blvd\Cutting_Blvd.isc

AERMOD View by Lakes Environmental Software

RS - 16 of 19

10/20/2021

Sensitive Receptor Summary

C:\Project\2121_Cutting_Blvd\AERMOD\731_Cutting_Blvd\731_Cutting_Bl

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00045	ug/m^3	R-134	554463.50	4197379.38	36.01	1.50	111.00	
PERIOD		0.00042	ug/m^3	R-136	554452.20	4197371.03	39.51	1.50	111.00	
PERIOD		0.00042	ug/m^3	R-137	554447.58	4197369.22	39.72	1.50	111.00	
PERIOD		0.00040	ug/m^3	R-140	554430.08	4197360.47	41.70	1.50	111.00	
PERIOD		0.00038	ug/m^3	R-142	554421.81	4197355.34	43.23	1.50	111.00	
PERIOD		0.00036	ug/m^3	R-145	554405.20	4197345.79	45.40	1.50	111.00	
PERIOD		0.00036	ug/m^3	R-146	554400.99	4197343.95	45.57	1.50	111.00	
PERIOD		0.00036	ug/m^3	R-147	554394.93	4197345.28	44.49	1.50	111.00	
PERIOD		0.00038	ug/m^3	R-150	554384.31	4197358.18	39.58	1.50	111.00	
PERIOD		0.00039	ug/m^3	R-154	554370.46	4197371.27	37.04	1.50	111.00	
PERIOD		0.00040	ug/m^3	R-155	554367.00	4197374.54	36.78	1.50	111.00	
PERIOD		0.00041	ug/m^3	R-156	554360.94	4197381.64	35.28	1.50	111.00	
PERIOD		0.00041	ug/m^3	R-157	554358.34	4197385.47	34.20	1.50	111.00	
PERIOD		0.00043	ug/m^3	R-160	554350.55	4197396.96	31.61	1.50	111.00	
PERIOD		0.00043	ug/m^3	R-161	554347.95	4197400.79	30.97	1.50	111.00	
PERIOD		0.00044	ug/m^3	R-164	554336.05	4197414.06	29.54	1.50	111.00	
PERIOD		0.00044	ug/m^3	R-165	554331.94	4197415.84	29.89	1.50	111.00	
PERIOD		0.00043	ug/m^3	R-168	554319.63	4197421.17	30.41	1.50	111.00	
PERIOD		0.00041	ug/m^3	R-173	554295.04	4197428.70	30.47	1.50	111.00	
PERIOD		0.00040	ug/m^3	R-176	554277.69	4197425.82	29.60	1.50	111.00	
PERIOD		0.00039	ug/m^3	R-178	554268.53	4197422.53	28.54	1.50	111.00	

Project File: C:\Users\lpark\OneDrive - ADEC Solutions USA, Inc\Desktop\2121.0022 Cutting Blvd Industrial\Cutting_Blvd\Cutting_Blvd.isc

AERMOD View by Lakes Environmental Software

RS - 17 of 19

10/20/2021

Sensitive Receptor Summary

C:\Project\2121_Cutting_Blvd\AERMOD\731_Cutting_Blvd\731_Cutting_Bl

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00039	ug/m^3	R-179	554263.94	4197420.89	27.62	1.50	111.00	
PERIOD		0.00038	ug/m^3	R-183	554245.61	4197414.33	24.43	1.50	111.00	
PERIOD		0.00037	ug/m^3	R-186	554231.86	4197409.40	22.92	1.50	111.00	
PERIOD		0.00037	ug/m^3	R-187	554227.28	4197407.76	22.26	1.50	111.00	
PERIOD		0.00035	ug/m^3	R-192	554200.83	4197400.01	19.99	1.50	111.00	
PERIOD		0.00034	ug/m^3	R-193	554197.30	4197400.47	19.75	1.50	111.00	
PERIOD		0.00034	ug/m^3	R-196	554184.27	4197410.52	17.48	1.50	111.00	
PERIOD		0.00034	ug/m^3	R-198	554176.29	4197420.74	16.34	1.50	111.00	
PERIOD		0.00034	ug/m^3	R-199	554174.65	4197424.56	15.89	1.50	111.00	
PERIOD		0.00034	ug/m^3	R-200	554173.01	4197428.39	15.43	1.50	111.00	
PERIOD		0.00034	ug/m^3	R-201	554167.63	4197435.00	14.73	1.50	111.00	
PERIOD		0.00034	ug/m^3	R-203	554160.14	4197440.57	14.21	1.50	111.00	
PERIOD		0.00034	ug/m^3	R-204	554156.40	4197443.35	13.97	1.50	111.00	
PERIOD		0.00033	ug/m^3	R-205	554152.65	4197446.14	13.84	1.50	111.00	
PERIOD		0.00033	ug/m^3	R-207	554145.17	4197451.71	13.81	1.50	111.00	
PERIOD		0.00032	ug/m^3	R-210	554133.93	4197460.06	13.08	1.50	111.00	
PERIOD		0.00033	ug/m^3	R-217	554125.31	4197488.65	7.55	1.50	111.00	
PERIOD		0.00034	ug/m^3	R-219	554129.01	4197501.78	6.00	1.50	111.00	
PERIOD		0.00034	ug/m^3	R-220	554129.53	4197506.19	6.00	1.50	111.00	
PERIOD		0.00034	ug/m^3	R-222	554130.56	4197515.02	6.00	1.50	111.00	
PERIOD		0.00035	ug/m^3	R-226	554135.05	4197539.36	6.00	1.50	111.00	

Project File: C:\Users\lpark\OneDrive - ADEC Solutions USA, Inc\Desktop\2121.0022 Cutting Blvd Industrial\Cutting_Blvd\Cutting_Blvd.isc

AERMOD View by Lakes Environmental Software

RS - 18 of 19

10/20/2021

Sensitive Receptor Summary

C:\Project\2121_Cutting_Blvd\AERMOD\731_Cutting_Blvd\731_Cutting_Bl

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00035	ug/m^3	R-227	554136.94	4197543.53	6.00	1.50	111.00	
PERIOD		0.00036	ug/m^3	R-230	554143.12	4197560.36	5.92	1.50	111.00	
PERIOD		0.00036	ug/m^3	R-231	554143.64	4197564.67	5.82	1.50	111.00	
PERIOD		0.00038	ug/m^3	R-238	554157.17	4197598.30	5.00	4.50	111.00	
PERIOD		0.00038	ug/m^3	R-239	554159.25	4197602.47	5.00	4.50	111.00	
PERIOD		0.00039	ug/m^3	R-240	554161.34	4197606.64	5.00	4.50	111.00	

PROJECT TITLE:
C:\Project\2121_Cutting_Blvd\AERMOD\731_Cutting_Blvd\731_Cutting_Bl

COMMENTS:

SOURCES:

4

RECEPTORS:

2603

OUTPUT TYPE:

Concentration

MAX:

0.344 ug/m³

COMPANY NAME:

MODELER:

DATE:

10/20/2021

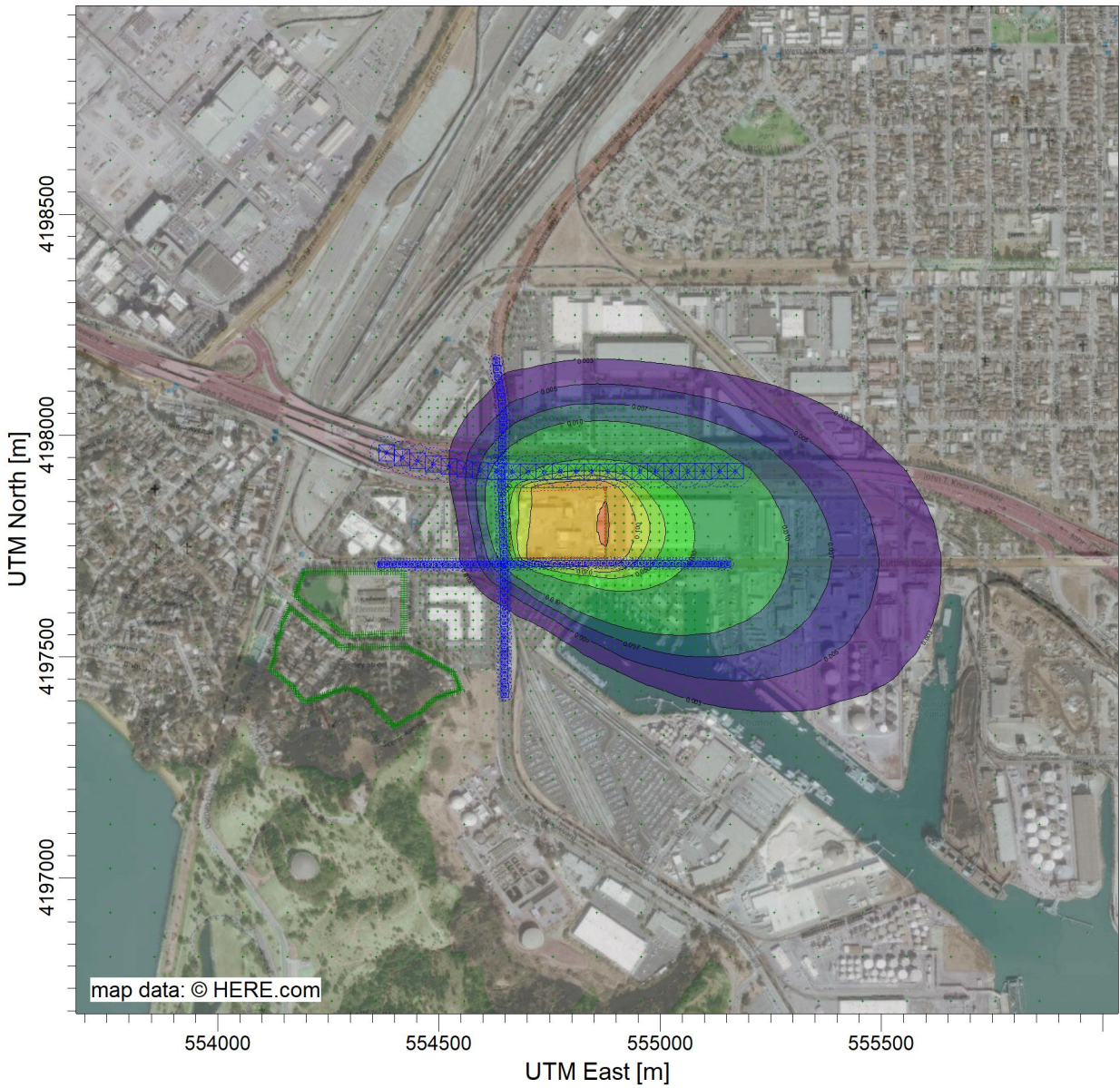
SCALE:

1:15,511

0

0.4 km

PROJECT NO.:



ug/m³
0.344
0.300
0.100
0.070
0.050
0.030
0.010
0.007
0.005
0.003
PLOT FILE OF PERIOD VALUES AVERAGED ACROSS 0 YEARS FOR SOURCE GROUP: ALL
Max: 0.344 [ug/m³] at (554877.49, 4197801.77)

HARP2 - HRACalc (dated 19044) 10/20/2021 11:18:12 AM - Output Log

GLCs loaded successfully

Pollutants loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident

Scenario: Cancer

Calculation Method: HighEnd

EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: -0.25

Total Exposure Duration: 3

Exposure Duration Bin Distribution

3rd Trimester Bin: 0.25

0<2 Years Bin: 2

2<9 Years Bin: 1

2<16 Years Bin: 0

16<30 Years Bin: 0

16 to 70 Years Bin: 0

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True

Soil: False

Dermal: False

Mother's milk: False

Water: False

Fish: False

Homegrown crops: False

Beef: False

Dairy: False

Pig: False

Chicken: False

Egg: False

INHALATION

Daily breathing rate: RMP

Worker Adjustment Factors

Worker adjustment factors enabled: NO

****Fraction at time at home****

3rd Trimester to 16 years: ON

16 years to 70 years: ON

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|DBRs changed|FAH changed|

Calculating cancer risk

Cancer risk saved to: C:\Users\lpark\OneDrive - ADEC Solutions USA,
Inc\Desktop\2121.0022 Cutting Blvd Industrial\HARP\Resident_CancerRisk.csv

HRA ran successfully

HARP2 - HRACalc (dated 19044) 10/20/2021 11:15:20 AM - Output Log

GLCs loaded successfully

Pollutants loaded successfully

RISK SCENARIO SETTINGS

Receptor Type: Resident

Scenario: Cancer

Calculation Method: HighEnd

EXPOSURE DURATION PARAMETERS FOR CANCER

Start Age: 5

Total Exposure Duration: 3

Exposure Duration Bin Distribution

3rd Trimester Bin: 0

0<2 Years Bin: 0

2<9 Years Bin: 3

2<16 Years Bin: 0

16<30 Years Bin: 0

16 to 70 Years Bin: 0

PATHWAYS ENABLED

NOTE: Inhalation is always enabled and used for all assessments. The remaining pathways are only used for cancer and noncancer chronic assessments.

Inhalation: True

Soil: False

Dermal: False

Mother's milk: False

Water: False

Fish: False

Homegrown crops: False

Beef: False

Dairy: False

Pig: False

Chicken: False

Egg: False

INHALATION

Daily breathing rate: Moderate8HR

Worker Adjustment Factors

NOTE: The worker adjustment factors below are only used for cancer assessments. However, the GLC adjustment factor is also applied to 8-hr noncancer chronic assessments.

Worker adjustments factors enabled: YES

GLC adjustment factor: 1

Exposure frequency: 180

****Fraction at time at home****

3rd Trimester to 16 years: OFF

16 years to 70 years: OFF

TIER 2 SETTINGS

Tier2 adjustments were used in this assessment. Please see the input file for details.

Tier2 - What was changed: ED or start age changed|DBRs changed|FAH changed|

Calculating cancer risk

Cancer risk saved to: C:\Users\lpark\OneDrive - ADEC Solutions USA, Inc\Desktop\2121.0022 Cutting Blvd Industrial\HARP\School_CancerRisk.csv

HRA ran successfully

Project Energy Use Summary

Summary of Energy Use During Construction

(Annually)

Construction vehicle fuel	2,365 gallons (gasoline, diesel)
Construction equipment fuel	34,145 gallons (diesel)
Total construction fuel	36,510 gallons (gasoline, diesel)
Construction office electricity	9,310 kilowatt hours

Summary of Energy Use During Operations

(Annually)

Operation vehicle fuel	116,690 gallons (gasoline, diesel)
Operation natural gas	282,993 kilo-British Thermal Units
Operation electricity	645,919 kilowatt hours

Construction Vehicle Fuel Calculations

California Air Resource Board (ARB). 2020. EMFAC2017 Web Database. Website: <https://arb.ca.gov/emfac/2017/>. Accessed October 20, 2021.

VMT = Vehicle Miles Traveled

FE = Fuel Economy

Source: EMFAC2021 (v1.0.1) Emissions Inventory

Region Type: County

Region: Contra Costa

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT (mi/day)	Trips	Fuel Consumption (1000 gallons/day)	Calculations		
										FE (mi/gallon)	VMT*FE	
Contra Costa	2022	HHDT	Aggregate	Aggregate	Gasoline	0.9496099	42.91312698	42.91313	1.08E-06	1.922E-06	0.011545745	0.495464012
Contra Costa	2022	HHDT	Aggregate	Aggregate	Diesel	4876.6404	585418.4295	585418.4	0.010876	0.13097521	102.6014141	60064758.72
Contra Costa	2022	LDA	Aggregate	Aggregate	Gasoline	342251.92	12704198.87	12704199	0.041184	0.4569312	439.2919848	5580852736
Contra Costa	2022	LDA	Aggregate	Aggregate	Diesel	1556.0913	46980.82767	46980.83	0.000117	0.00016054	1.103855571	51860.04834
Contra Costa	2022	LDT1	Aggregate	Aggregate	Gasoline	34814.393	1206518.068	1206518	0.004631	0.04678488	49.39173893	59592025.42
Contra Costa	2022	LDT1	Aggregate	Aggregate	Diesel	20.697141	267.2282897	267.2283	1.16E-06	9.1316E-07	0.010952073	2.926703829
Contra Costa	2022	LDT2	Aggregate	Aggregate	Gasoline	152545.32	6089112.878	6089113	0.024587	0.22913487	262.2508097	1596874783
Contra Costa	2022	LDT2	Aggregate	Aggregate	Diesel	617.40941	26019.32464	26019.32	8.9E-05	8.8912E-05	0.838608994	21820.03965
Contra Costa	2022	LHDT1	Aggregate	Aggregate	Gasoline	12752.806	469718.3997	469718.4	0.004765	0.02324832	50.82692255	23874340.72
Contra Costa	2022	LHDT1	Aggregate	Aggregate	Diesel	8526.488	320734.9157	320734.9	0.002167	0.05263881	20.43035916	6552729.525
Contra Costa	2022	LHDT2	Aggregate	Aggregate	Gasoline	1468.157	53325.83918	53325.84	0.000605	0.002643	6.458317585	344395.2049
Contra Costa	2022	LHDT2	Aggregate	Aggregate	Diesel	3184.0487	125312.5525	125312.6	0.00103	0.02339336	9.70632283	1216324.09
Contra Costa	2022	MHDT	Aggregate	Aggregate	Gasoline	760.23264	36884.00474	36884	0.000749	0.00182701	7.986769073	294584.0284
Contra Costa	2022	MHDT	Aggregate	Aggregate	Diesel	5416.2207	227901.6607	227901.7	0.002883	0.04847152	27.1962554	6198071.772

Worker
Sum of VMT*FE (Column BI) **7237393228**
Total VMT **20073097.2**
Weighted Average FE **360.5518948**

Vendor
Sum of VMT*FE (Column BI) **98545204.55**
Total VMT **1819338.715**
Weighted Average FE **54.16539742**

Haul
Sum of VMT*FE (Column BI) **60064759.21**
Total VMT **585461.3426**
Weighted Average FE **102.5938945**

Project Construction Assumptions**On-site Construction**

Source: AQ/GHG Appendix, CalEEMod Output

Construction Schedule	Construction Activity	Phase Type	Start Date	End Date	Num Days	
					Week	Num Days
	Demolition		2022/01/03	2022/01/28	5	20
	Rough Grading	Grading	2022/01/31	2022/02/18	5	15
	Underground Utilities	Trenching	2022/02/21	2022/05/13	5	60
	Building Construction	Building Construction	2022/02/21	2022/11/15	5	192
	Finish Grading	Grading	2022/09/15	2022/10/03	5	13
	Paving	Paving	2022/10/03	2022/10/24	5	16
	Architectural Coating	Architectural Coating	2022/11/16	2023/01/30	5	54

			Trips per Phase										VMT per Phase			Fuel Consumption (gallons)		
			Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Vendor Veh	Num Days	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trips	Vendor Trips	Hauling Trips	Trips	Vendor Trips	Hauling Trips
Construction Activity	Worker Trip Number																	
Demolition	15	0	2026	10.8	7.3	20 HDT_Mix	20	300	0	2,026	3,240	0	40,520	8.99	0.00	19.75		
Rough Grading	15	0	2250	10.8	7.3	20 HDT_Mix	15	225	0	2,250	2,430	0	45,000	6.74	0.00	21.93		
Underground Utilities	5	0	0	10.8	7.3	20 HDT_Mix	60	300	0	0	3,240	0	0	8.99	0.00	0.00		
Building Construction	142	55	0	10.8	7.3	20 HDT_Mix	192	27,264	10,560	0	294,451	77,088	0	816.67	1,423.20	0.00		
Finish Grading	15	0	0	10.8	7.3	20 HDT_Mix	13	195	0	0	2,106	0	0	5.84	0.00	0.00		
Paving	15	0	0	10.8	7.3	20 HDT_Mix	16	240	0	0	2,592	0	0	7.19	0.00	0.00		
Architectural Coating	28	0	0	10.8	7.3	20 HDT_Mix	54	1,512	0	0	16,330	0	0	45.29	0.00	0.00		

On-site Total Construction VMT (miles)
486,997

On-Site Total Fuel Consumption (gallons)
2,365

Construction Equipment Fuel Calculation

On-site

Source: AQ/GHG Appendix, CalEEMod Output

Construction Schedule	Construction Activity	Activity Type	Start Date	End Date	Num Days	
					Week	Num Days
	Demolition	Demolition	2022/01/03	2022/01/28	5	20
	Rough Grading	Grading	2022/01/31	2022/02/18	5	15
	Underground Utilities	Trenching	2022/02/21	2022/05/13	5	60
	Building Construction	Building Construction	2022/02/21	2022/11/15	5	192
	Finish Grading	Grading	2022/09/15	2022/10/03	5	13
	Paving	Paving	2022/10/03	2022/10/24	5	16
	Architectural Coating	Architectural Coating	2022/11/16	2023/01/30	5	54

Construction Equipment	Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load	Number of	HP Hours	Diesel Fuel Usage
						Factor	Days		
	Demolition	Concrete/Industrial Saws	1	8	81	0.73	20	9,460.80	473.04
	Demolition	Excavators	3	8	158	0.38	20	28,819.20	1,440.96
	Demolition	Rubber Tired Dozers	2	8	247	0.4	20	31,616.00	1,580.80
	Rough Grading	Excavators	1	8	158	0.38	15	7,204.80	360.24
	Rough Grading	Graders	1	8	187	0.41	15	9,200.40	460.02
	Rough Grading	Rubber Tired Dozers	1	8	247	0.4	15	11,856.00	592.80
	Rough Grading	Tractors/Loaders/Backhoes	3	8	97	0.37	15	12,920.40	646.02
	Underground Utilities	Excavators	1	8	158	0.38	60	28,819.20	1,440.96
	Underground Utilities	Tractors/Loaders/Backhoes	1	8	97	0.37	60	17,227.20	861.36
	Building Construction	Cranes	1	7	231	0.29	192	90,034.56	4,501.73
	Building Construction	Forklifts	3	8	89	0.2	192	82,022.40	4,101.12
	Building Construction	Generator Sets	1	8	84	0.74	192	95,477.76	4,773.89
	Building Construction	Tractors/Loaders/Backhoes	3	7	97	0.37	192	144,708.48	7,235.42
	Building Construction	Welders	1	8	46	0.45	192	31,795.20	1,589.76
	Finish Grading	Excavators	1	8	158	0.38	13	6,244.16	312.21
	Finish Grading	Graders	1	8	187	0.41	13	7,973.68	398.68
	Finish Grading	Rubber Tired Dozers	1	8	247	0.4	13	10,275.20	513.76
	Finish Grading	Tractors/Loaders/Backhoes	3	8	97	0.37	13	11,197.68	559.88
	Paving	Pavers	2	8	130	0.42	16	13,977.60	698.88
	Paving	Paving Equipment	2	8	132	0.36	16	12,165.12	608.26
	Paving	Rollers	2	8	80	0.38	16	7,782.40	389.12
	Architectural Coating	Air Compressors	1	6	78	0.48	54	12,130.56	606.53

Construction Equipment Fuel Consumption 34,145.44 gallons

Notes:

Equipment assumptions are provided in the CalEEMod output files.

Fuel usage estimate of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

South Coast Air Quality Management District. 1993. Air Quality Handbook, Table A9-3E.

Website: <http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook>. Accessed July 22, 2021.

Construction Office Electricity Calculation

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	8668.8	0.8021	1.3000e-004	2.0000e-005	0.8100
Total		0.8021	1.3000e-004	2.0000e-005	0.8100

kWh/yr = kilowatt hours per year

Energy by Land Use - Electricity

Annual

8,669 kWh/yr

Total Over Construction

9,310 kWh

Total Construction Schedule

Start

1/3/2022

End

1/30/2023

Total Calendar Days

392

Years

1.07

Proposed Operation Fuel Calculation

California Air Resource Board (ARB). 2020. EMFAC2017 Web Database. Website: <https://arb.ca.gov/emfac/2017/>. Accessed October 20, 2021.

Source: EMFAC2021 (v1.0.1) Emissions Inventory

Region Type: County

Region: Contra Costa

Calendar Year: 2023

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

VMT = Vehicle Miles Traveled

FE = Fuel Economy

Given

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Fuel Consumption	FE	VMT*FE
Contra Costa	2023	LDA	Aggregate	Aggregate	Gasoline	339848.959	12783779	434.9196535	29.39343	375759069.6
Contra Costa	2023	LDA	Aggregate	Aggregate	Diesel	1457.68621	43468.1681	1.01514636	42.81961	1861289.87
Contra Costa	2023	LDT1	Aggregate	Aggregate	Gasoline	33659.3305	1179551.07	47.65602434	24.75135	29195484.47
Contra Costa	2023	LDT1	Aggregate	Aggregate	Diesel	18.539943	234.181883	0.009595366	24.40573	5715.378862
Contra Costa	2023	LDT2	Aggregate	Aggregate	Gasoline	154436.758	6246459.65	263.9203589	23.66797	147841031.7
Contra Costa	2023	LDT2	Aggregate	Aggregate	Diesel	633.678897	26711.6613	0.851044888	31.3869	838396.2574
Contra Costa	2023	MDV	Aggregate	Aggregate	Gasoline	101543.979	3817544.23	197.9205868	19.28826	73633795.33
Contra Costa	2023	MDV	Aggregate	Aggregate	Diesel	1630.41664	65604.4905	2.731255437	24.0199	1575813.493

Calculations

Vehicles	
Sum of VMT*FE	630710596.1
Total VMT	24163352.41
Weighted Average FE	26.10194916 miles/gallon

Total VMT

Source: AQ/GHG Appendix, CalEEMod Output

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
General Office Building	993.00	993.00	993.00	2,901,014	2,901,014
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	28.42	28.42	28.42	144,810	144,810
Total	1,021.42	1,021.42	1,021.42	3,045,824	3,045,824

	Annual VMT (miles)	Fuel Consumption
Total VMT	3,045,824	116,690 gallons per year

Operational Natural Gas Use

Source: AQ/GHG Appendix, CalEEMod Output

kBTU/yr = kilo-British Thermal Units/year

Natural Gas Use

City Park	-
General Office Building	76,600
Other Non-Asphalt Surfaces	-
Parking Lot	-
Unrefrigerated Warehouse-No Rail	206,393

Total 282,993 kBTU/yr

	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					
City Park	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
General Office Building	76600	4.1000e-004	3.7500e-003	3.1500e-003	2.0000e-005		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004	0.0000	4.0877	4.0877	8.0000e-005	7.0000e-005	4.1120
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
Unrefrigerated Warehouse-No Rail	206393	1.1100e-003	0.0101	8.5000e-003	6.0000e-005		7.7000e-004	7.7000e-004		7.7000e-004	7.7000e-004	0.0000	11.0139	11.0139	2.1000e-004	2.0000e-004	11.0794
Total		1.5200e-003	0.0139	0.0117	8.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	15.1016	15.1016	2.9000e-004	2.7000e-004	15.1913

Operational Electricity Use

Source: AQ/GHG Appendix, CalEEMod Output

Project Electricity Use

kWh/yr = kilowatt hours per year

	Electricity Use (kWh/yr)
Land Use	
City Park	-
General Office Building	48,160
Other Non-Asphalt Surfaces	-
Parking Lot	35,413
Unrefrigerated Warehouse-No Rail	562,346
Total	645,919 kWh/yr

	Electricity Use		Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	tons/yr	MT/yr			
City Park	0		0.0000	0.0000	0.0000	0.0000
General Office Building	48160		4.4559	7.2000e- 004	9.0000e- 005	4.5000
Other Non- Asphalt Surfaces	0		0.0000	0.0000	0.0000	0.0000
Parking Lot	35413		3.2765	5.3000e- 004	6.0000e- 005	3.3089
Unrefrigerated Warehouse-No Rail	562346		52.0303	8.4200e- 003	1.0200e- 003	52.5448
Total			59.7628	9.6700e- 003	1.1700e- 003	60.3538