

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Annual

**Santa Rosa Fire Station 5**  
**Bay Area AQMD Air District, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	10.76	1000sqft	1.05	10,760.00	0
Parking Lot	46.00	1000sqft	1.06	46,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	4			<b>Operational Year</b>	2024
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	98.81	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

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Project Characteristics - Modeler: Erica. Updated CO2 intensity per Sonoma clean power 2018 levels.

Land Use - Project land use information from 3/4 data request response. Gov office building includes landscaping as part of lot acreage.

Construction Phase - Shortened Demo phase. Added extra building phase for foundation and vertical construction. 25% of construction time to foundation, 75% to vertical. Added trenching phase.

Trips and VMT - Changed grading trip hauling length to 25 from 20.

Grading - CY of 8,000 cut, plus 250 CY of wood chips from stumps/trees.

Vehicle Trips - Updated per W Trans Appendix G write up w/daily rate for community room addition from existing conditions.

Energy Use - T24 standards adjusted downwards to reflect increased efficiency between 2016-2019 standards (CEC, 2017). NG was 0 per applicant's data request response to use electricity. Electricity rate was increased x1.27 for increased electricity in lieu of NG.

Water And Wastewater - Updated outdoor water use w/applicant annual approximation.

Construction Off-road Equipment Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps - Per applicant's project description, converted 200kW to 268 HP. Hours/day for testing. Hours/year include testing for maintenance.

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	220.00	50.00
tblConstructionPhase	NumDays	220.00	150.00
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	NumDays	6.00	10.00
tblEnergyUse	NT24NG	0.06	0.00
tblEnergyUse	T24E	6.11	7.76
tblEnergyUse	T24NG	16.31	0.00
tblGrading	AcresOfGrading	5.00	3.00
tblGrading	MaterialExported	0.00	8,250.00
tblLandUse	LotAcreage	0.25	1.05
tblProjectCharacteristics	CO2IntensityFactor	641.35	98.81
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblVehicleTrips	ST_TR	0.00	4.74
tblVehicleTrips	SU_TR	0.00	4.74
tblVehicleTrips	WD_TR	68.93	4.74
tblWater	OutdoorWaterUseRate	1,310,128.59	360,000.00

## 2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2023	3-31-2023	0.4996	0.4996
2	4-1-2023	6-30-2023	0.5245	0.5245
3	7-1-2023	9-30-2023	0.5302	0.5302
		Highest	0.5302	0.5302

**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	0.0516	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0100e-003	1.0100e-003	0.0000	0.0000	1.0800e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	10.1160	10.1160	2.9700e-003	6.1000e-004	10.3732
Mobile	9.9000e-003	0.0436	0.0999	3.6000e-004	0.0325	3.0000e-004	0.0329	8.7300e-003	2.8000e-004	9.0100e-003	0.0000	33.2900	33.2900	1.2100e-003	0.0000	33.3202
Stationary	0.0550	0.1537	0.1402	2.6000e-004		8.0900e-003	8.0900e-003		8.0900e-003	8.0900e-003	0.0000	25.5134	25.5134	3.5800e-003	0.0000	25.6028
Waste						0.0000	0.0000		0.0000	0.0000	2.0319	0.0000	2.0319	0.1201	0.0000	5.0340
Water						0.0000	0.0000		0.0000	0.0000	0.6782	0.5749	1.2530	0.0698	1.6800e-003	3.4991
<b>Total</b>	<b>0.1165</b>	<b>0.1973</b>	<b>0.2406</b>	<b>6.2000e-004</b>	<b>0.0325</b>	<b>8.3900e-003</b>	<b>0.0409</b>	<b>8.7300e-003</b>	<b>8.3700e-003</b>	<b>0.0171</b>	<b>2.7101</b>	<b>69.4953</b>	<b>72.2054</b>	<b>0.1977</b>	<b>2.2900e-003</b>	<b>77.8305</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0516	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0100e-003	1.0100e-003	0.0000	0.0000	1.0800e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	10.1160	10.1160	2.9700e-003	6.1000e-004	10.3732
Mobile	9.9000e-003	0.0436	0.0999	3.6000e-004	0.0325	3.0000e-004	0.0329	8.7300e-003	2.8000e-004	9.0100e-003	0.0000	33.2900	33.2900	1.2100e-003	0.0000	33.3202
Stationary	0.0550	0.1537	0.1402	2.6000e-004		8.0900e-003	8.0900e-003		8.0900e-003	8.0900e-003	0.0000	25.5134	25.5134	3.5800e-003	0.0000	25.6028
Waste						0.0000	0.0000		0.0000	0.0000	2.0319	0.0000	2.0319	0.1201	0.0000	5.0340
Water						0.0000	0.0000		0.0000	0.0000	0.6782	0.5749	1.2530	0.0698	1.6800e-003	3.4991
<b>Total</b>	<b>0.1165</b>	<b>0.1973</b>	<b>0.2406</b>	<b>6.2000e-004</b>	<b>0.0325</b>	<b>8.3900e-003</b>	<b>0.0409</b>	<b>8.7300e-003</b>	<b>8.3700e-003</b>	<b>0.0171</b>	<b>2.7101</b>	<b>69.4953</b>	<b>72.2054</b>	<b>0.1977</b>	<b>2.2900e-003</b>	<b>77.8305</b>

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

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/2/2023	1/2/2023	5	1	
2	Site Preparation	Site Preparation	1/3/2023	1/5/2023	5	3	
3	Grading	Grading	1/6/2023	1/19/2023	5	10	
4	Utility Trenching	Trenching	1/20/2023	2/2/2023	5	10	
5	Paving	Paving	2/3/2023	2/16/2023	5	10	
6	Building Construction 1	Building Construction	2/17/2023	4/27/2023	5	50	Foundation
7	Building Construction 2	Building Construction	4/28/2023	11/23/2023	5	150	Vertical
8	Architectural Coating	Architectural Coating	11/25/2023	12/8/2023	5	10	

**Acres of Grading (Site Preparation Phase): 4.5**

**Acres of Grading (Grading Phase): 3**

**Acres of Paving: 1.06**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 16,140; Non-Residential Outdoor: 5,380; Striped Parking Area: 2,760 (Architectural Coating – sqft)**

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction 1	Cranes	1	8.00	231	0.29
Building Construction 1	Forklifts	2	7.00	89	0.20
Building Construction 1	Generator Sets	1	8.00	84	0.74
Building Construction 1	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction 1	Welders	3	8.00	46	0.45
Building Construction 2	Cranes	1	8.00	231	0.29
Building Construction 2	Forklifts	2	7.00	89	0.20
Building Construction 2	Generator Sets	1	8.00	84	0.74
Building Construction 2	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction 2	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**



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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	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	1,031.00	10.80	7.30	25.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching			0.00	0.00	10.80	7.30				
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 1	8	23.00	9.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 2	8	23.00	9.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.4000e-004	7.1600e-003	6.7300e-003	1.0000e-005		3.4000e-004	3.4000e-004		3.2000e-004	3.2000e-004	0.0000	1.0543	1.0543	2.7000e-004	0.0000	1.0610
<b>Total</b>	<b>7.4000e-004</b>	<b>7.1600e-003</b>	<b>6.7300e-003</b>	<b>1.0000e-005</b>		<b>3.4000e-004</b>	<b>3.4000e-004</b>		<b>3.2000e-004</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.0543</b>	<b>1.0543</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>1.0610</b>

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**3.2 Demolition - 2023**

**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	2.0000e-005	1.0000e-005	1.2000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0402	0.0402	0.0000	0.0000	0.0403
<b>Total</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0402</b>	<b>0.0402</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0403</b>

**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	7.4000e-004	7.1600e-003	6.7300e-003	1.0000e-005		3.4000e-004	3.4000e-004		3.2000e-004	3.2000e-004	0.0000	1.0543	1.0543	2.7000e-004	0.0000	1.0610
<b>Total</b>	<b>7.4000e-004</b>	<b>7.1600e-003</b>	<b>6.7300e-003</b>	<b>1.0000e-005</b>		<b>3.4000e-004</b>	<b>3.4000e-004</b>		<b>3.2000e-004</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.0543</b>	<b>1.0543</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>1.0610</b>

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**3.2 Demolition - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	2.0000e-005	1.0000e-005	1.2000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0402	0.0402	0.0000	0.0000	0.0403
<b>Total</b>	<b>2.0000e-005</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0402</b>	<b>0.0402</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0403</b>

**3.3 Site Preparation - 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					
Fugitive Dust					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9500e-003	0.0214	0.0147	4.0000e-005		8.1000e-004	8.1000e-004		7.5000e-004	7.5000e-004	0.0000	3.2317	3.2317	1.0500e-003	0.0000	3.2578
<b>Total</b>	<b>1.9500e-003</b>	<b>0.0214</b>	<b>0.0147</b>	<b>4.0000e-005</b>	<b>2.3900e-003</b>	<b>8.1000e-004</b>	<b>3.2000e-003</b>	<b>2.6000e-004</b>	<b>7.5000e-004</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>3.2317</b>	<b>3.2317</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>3.2578</b>

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**3.3 Site Preparation - 2023**

**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	3.0000e-005	2.0000e-005	2.3000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0743	0.0743	0.0000	0.0000	0.0743
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0743</b>	<b>0.0743</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0743</b>

**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					1.0700e-003	0.0000	1.0700e-003	1.2000e-004	0.0000	1.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9500e-003	0.0214	0.0147	4.0000e-005		8.1000e-004	8.1000e-004		7.5000e-004	7.5000e-004	0.0000	3.2317	3.2317	1.0500e-003	0.0000	3.2578
<b>Total</b>	<b>1.9500e-003</b>	<b>0.0214</b>	<b>0.0147</b>	<b>4.0000e-005</b>	<b>1.0700e-003</b>	<b>8.1000e-004</b>	<b>1.8800e-003</b>	<b>1.2000e-004</b>	<b>7.5000e-004</b>	<b>8.7000e-004</b>	<b>0.0000</b>	<b>3.2317</b>	<b>3.2317</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>3.2578</b>

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**3.3 Site Preparation - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	3.0000e-005	2.0000e-005	2.3000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0743	0.0743	0.0000	0.0000	0.0743
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0743</b>	<b>0.0743</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0743</b>

**3.4 Grading - 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					
Fugitive Dust					0.0322	0.0000	0.0322	0.0168	0.0000	0.0168	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6700e-003	0.0723	0.0435	1.0000e-004		3.0200e-003	3.0200e-003		2.7800e-003	2.7800e-003	0.0000	9.0520	9.0520	2.9300e-003	0.0000	9.1252
<b>Total</b>	<b>6.6700e-003</b>	<b>0.0723</b>	<b>0.0435</b>	<b>1.0000e-004</b>	<b>0.0322</b>	<b>3.0200e-003</b>	<b>0.0352</b>	<b>0.0168</b>	<b>2.7800e-003</b>	<b>0.0196</b>	<b>0.0000</b>	<b>9.0520</b>	<b>9.0520</b>	<b>2.9300e-003</b>	<b>0.0000</b>	<b>9.1252</b>

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**3.4 Grading - 2023**

**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	3.1200e-003	0.0972	0.0316	4.6000e-004	0.0109	1.9000e-004	0.0111	2.9900e-003	1.8000e-004	3.1700e-003	0.0000	45.0862	45.0862	2.0600e-003	0.0000	45.1376
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-004	9.0000e-005	9.5000e-004	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3094	0.3094	1.0000e-005	0.0000	0.3096
<b>Total</b>	<b>3.2500e-003</b>	<b>0.0973</b>	<b>0.0326</b>	<b>4.6000e-004</b>	<b>0.0113</b>	<b>1.9000e-004</b>	<b>0.0115</b>	<b>3.1000e-003</b>	<b>1.8000e-004</b>	<b>3.2800e-003</b>	<b>0.0000</b>	<b>45.3956</b>	<b>45.3956</b>	<b>2.0700e-003</b>	<b>0.0000</b>	<b>45.4472</b>

**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					0.0145	0.0000	0.0145	7.5600e-003	0.0000	7.5600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.6700e-003	0.0723	0.0435	1.0000e-004		3.0200e-003	3.0200e-003		2.7800e-003	2.7800e-003	0.0000	9.0520	9.0520	2.9300e-003	0.0000	9.1251
<b>Total</b>	<b>6.6700e-003</b>	<b>0.0723</b>	<b>0.0435</b>	<b>1.0000e-004</b>	<b>0.0145</b>	<b>3.0200e-003</b>	<b>0.0175</b>	<b>7.5600e-003</b>	<b>2.7800e-003</b>	<b>0.0103</b>	<b>0.0000</b>	<b>9.0520</b>	<b>9.0520</b>	<b>2.9300e-003</b>	<b>0.0000</b>	<b>9.1251</b>



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**3.5 Utility Trenching - 2023**

**Mitigated Construction Off-Site**

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

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.4000e-003	0.0431	0.0584	9.0000e-005		2.1700e-003	2.1700e-003		2.0000e-003	2.0000e-003	0.0000	7.7564	7.7564	2.4600e-003	0.0000	7.8179
Paving	1.3900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.7900e-003</b>	<b>0.0431</b>	<b>0.0584</b>	<b>9.0000e-005</b>		<b>2.1700e-003</b>	<b>2.1700e-003</b>		<b>2.0000e-003</b>	<b>2.0000e-003</b>	<b>0.0000</b>	<b>7.7564</b>	<b>7.7564</b>	<b>2.4600e-003</b>	<b>0.0000</b>	<b>7.8179</b>



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**3.6 Paving - 2023**

**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	2.0000e-004	1.3000e-004	1.4200e-003	1.0000e-005	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4641	0.4641	1.0000e-005	0.0000	0.4644
<b>Total</b>	<b>2.0000e-004</b>	<b>1.3000e-004</b>	<b>1.4200e-003</b>	<b>1.0000e-005</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>6.0000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.4641</b>	<b>0.4641</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4644</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.4000e-003	0.0431	0.0584	9.0000e-005		2.1700e-003	2.1700e-003		2.0000e-003	2.0000e-003	0.0000	7.7564	7.7564	2.4600e-003	0.0000	7.8178
Paving	1.3900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.7900e-003</b>	<b>0.0431</b>	<b>0.0584</b>	<b>9.0000e-005</b>		<b>2.1700e-003</b>	<b>2.1700e-003</b>		<b>2.0000e-003</b>	<b>2.0000e-003</b>	<b>0.0000</b>	<b>7.7564</b>	<b>7.7564</b>	<b>2.4600e-003</b>	<b>0.0000</b>	<b>7.8178</b>

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**3.6 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	2.0000e-004	1.3000e-004	1.4200e-003	1.0000e-005	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4641	0.4641	1.0000e-005	0.0000	0.4644
<b>Total</b>	<b>2.0000e-004</b>	<b>1.3000e-004</b>	<b>1.4200e-003</b>	<b>1.0000e-005</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>6.0000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.4641</b>	<b>0.4641</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4644</b>

**3.7 Building Construction 1 - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0428	0.3406	0.3554	6.3000e-004		0.0153	0.0153		0.0147	0.0147	0.0000	51.9255	51.9255	9.8200e-003	0.0000	52.1710
<b>Total</b>	<b>0.0428</b>	<b>0.3406</b>	<b>0.3554</b>	<b>6.3000e-004</b>		<b>0.0153</b>	<b>0.0153</b>		<b>0.0147</b>	<b>0.0147</b>	<b>0.0000</b>	<b>51.9255</b>	<b>51.9255</b>	<b>9.8200e-003</b>	<b>0.0000</b>	<b>52.1710</b>

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**3.7 Building Construction 1 - 2023**

**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	5.0000e-004	0.0172	4.9400e-003	6.0000e-005	1.4800e-003	2.0000e-005	1.5000e-003	4.3000e-004	2.0000e-005	4.5000e-004	0.0000	5.6161	5.6161	2.3000e-004	0.0000	5.6219
Worker	1.5400e-003	9.8000e-004	0.0109	4.0000e-005	4.5400e-003	3.0000e-005	4.5700e-003	1.2100e-003	3.0000e-005	1.2300e-003	0.0000	3.5584	3.5584	7.0000e-005	0.0000	3.5602
<b>Total</b>	<b>2.0400e-003</b>	<b>0.0181</b>	<b>0.0158</b>	<b>1.0000e-004</b>	<b>6.0200e-003</b>	<b>5.0000e-005</b>	<b>6.0700e-003</b>	<b>1.6400e-003</b>	<b>5.0000e-005</b>	<b>1.6800e-003</b>	<b>0.0000</b>	<b>9.1745</b>	<b>9.1745</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>9.1821</b>

**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	0.0428	0.3406	0.3554	6.3000e-004		0.0153	0.0153		0.0147	0.0147	0.0000	51.9255	51.9255	9.8200e-003	0.0000	52.1710
<b>Total</b>	<b>0.0428</b>	<b>0.3406</b>	<b>0.3554</b>	<b>6.3000e-004</b>		<b>0.0153</b>	<b>0.0153</b>		<b>0.0147</b>	<b>0.0147</b>	<b>0.0000</b>	<b>51.9255</b>	<b>51.9255</b>	<b>9.8200e-003</b>	<b>0.0000</b>	<b>52.1710</b>

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**3.7 Building Construction 1 - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-004	0.0172	4.9400e-003	6.0000e-005	1.4800e-003	2.0000e-005	1.5000e-003	4.3000e-004	2.0000e-005	4.5000e-004	0.0000	5.6161	5.6161	2.3000e-004	0.0000	5.6219
Worker	1.5400e-003	9.8000e-004	0.0109	4.0000e-005	4.5400e-003	3.0000e-005	4.5700e-003	1.2100e-003	3.0000e-005	1.2300e-003	0.0000	3.5584	3.5584	7.0000e-005	0.0000	3.5602
<b>Total</b>	<b>2.0400e-003</b>	<b>0.0181</b>	<b>0.0158</b>	<b>1.0000e-004</b>	<b>6.0200e-003</b>	<b>5.0000e-005</b>	<b>6.0700e-003</b>	<b>1.6400e-003</b>	<b>5.0000e-005</b>	<b>1.6800e-003</b>	<b>0.0000</b>	<b>9.1745</b>	<b>9.1745</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>9.1821</b>

**3.8 Building Construction 2 - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1285	1.0218	1.0661	1.8800e-003		0.0460	0.0460		0.0441	0.0441	0.0000	155.7766	155.7766	0.0295	0.0000	156.5130
<b>Total</b>	<b>0.1285</b>	<b>1.0218</b>	<b>1.0661</b>	<b>1.8800e-003</b>		<b>0.0460</b>	<b>0.0460</b>		<b>0.0441</b>	<b>0.0441</b>	<b>0.0000</b>	<b>155.7766</b>	<b>155.7766</b>	<b>0.0295</b>	<b>0.0000</b>	<b>156.5130</b>

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**3.8 Building Construction 2 - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5000e-003	0.0515	0.0148	1.8000e-004	4.4300e-003	6.0000e-005	4.4900e-003	1.2800e-003	6.0000e-005	1.3400e-003	0.0000	16.8483	16.8483	7.0000e-004	0.0000	16.8658
Worker	4.6100e-003	2.9400e-003	0.0327	1.2000e-004	0.0136	9.0000e-005	0.0137	3.6300e-003	8.0000e-005	3.7000e-003	0.0000	10.6753	10.6753	2.1000e-004	0.0000	10.6805
<b>Total</b>	<b>6.1100e-003</b>	<b>0.0544</b>	<b>0.0475</b>	<b>3.0000e-004</b>	<b>0.0181</b>	<b>1.5000e-004</b>	<b>0.0182</b>	<b>4.9100e-003</b>	<b>1.4000e-004</b>	<b>5.0400e-003</b>	<b>0.0000</b>	<b>27.5235</b>	<b>27.5235</b>	<b>9.1000e-004</b>	<b>0.0000</b>	<b>27.5463</b>

**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	0.1285	1.0218	1.0661	1.8800e-003		0.0460	0.0460		0.0441	0.0441	0.0000	155.7764	155.7764	0.0295	0.0000	156.5129
<b>Total</b>	<b>0.1285</b>	<b>1.0218</b>	<b>1.0661</b>	<b>1.8800e-003</b>		<b>0.0460</b>	<b>0.0460</b>		<b>0.0441</b>	<b>0.0441</b>	<b>0.0000</b>	<b>155.7764</b>	<b>155.7764</b>	<b>0.0295</b>	<b>0.0000</b>	<b>156.5129</b>

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**3.8 Building Construction 2 - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.5000e-003	0.0515	0.0148	1.8000e-004	4.4300e-003	6.0000e-005	4.4900e-003	1.2800e-003	6.0000e-005	1.3400e-003	0.0000	16.8483	16.8483	7.0000e-004	0.0000	16.8658
Worker	4.6100e-003	2.9400e-003	0.0327	1.2000e-004	0.0136	9.0000e-005	0.0137	3.6300e-003	8.0000e-005	3.7000e-003	0.0000	10.6753	10.6753	2.1000e-004	0.0000	10.6805
<b>Total</b>	<b>6.1100e-003</b>	<b>0.0544</b>	<b>0.0475</b>	<b>3.0000e-004</b>	<b>0.0181</b>	<b>1.5000e-004</b>	<b>0.0182</b>	<b>4.9100e-003</b>	<b>1.4000e-004</b>	<b>5.0400e-003</b>	<b>0.0000</b>	<b>27.5235</b>	<b>27.5235</b>	<b>9.1000e-004</b>	<b>0.0000</b>	<b>27.5463</b>

**3.9 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	0.0657					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
<b>Total</b>	<b>0.0667</b>	<b>6.5100e-003</b>	<b>9.0600e-003</b>	<b>1.0000e-005</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.2785</b>

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**3.9 Architectural Coating - 2023**

**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	7.0000e-005	4.0000e-005	4.7000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1547	0.1547	0.0000	0.0000	0.1548
<b>Total</b>	<b>7.0000e-005</b>	<b>4.0000e-005</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.1547</b>	<b>0.1547</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1548</b>

**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	0.0657					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
<b>Total</b>	<b>0.0667</b>	<b>6.5100e-003</b>	<b>9.0600e-003</b>	<b>1.0000e-005</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.2785</b>

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**3.9 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	7.0000e-005	4.0000e-005	4.7000e-004	0.0000	2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1547	0.1547	0.0000	0.0000	0.1548
<b>Total</b>	<b>7.0000e-005</b>	<b>4.0000e-005</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.1547</b>	<b>0.1547</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1548</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**



Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Annual

	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	9.9000e-003	0.0436	0.0999	3.6000e-004	0.0325	3.0000e-004	0.0329	8.7300e-003	2.8000e-004	9.0100e-003	0.0000	33.2900	33.2900	1.2100e-003	0.0000	33.3202
Unmitigated	9.9000e-003	0.0436	0.0999	3.6000e-004	0.0325	3.0000e-004	0.0329	8.7300e-003	2.8000e-004	9.0100e-003	0.0000	33.2900	33.2900	1.2100e-003	0.0000	33.3202

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government Office Building	51.00	51.00	51.00	87,463	87,463
Parking Lot	0.00	0.00	0.00		
Total	51.00	51.00	51.00	87,463	87,463

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00	50	34	16
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix





Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Government Office Building	209605	9.3944	2.7600e-003	5.7000e-004	9.6333
Parking Lot	16100	0.7216	2.1000e-004	4.0000e-005	0.7400
<b>Total</b>		<b>10.1160</b>	<b>2.9700e-003</b>	<b>6.1000e-004</b>	<b>10.3733</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Government Office Building	209605	9.3944	2.7600e-003	5.7000e-004	9.6333
Parking Lot	16100	0.7216	2.1000e-004	4.0000e-005	0.7400
<b>Total</b>		<b>10.1160</b>	<b>2.9700e-003</b>	<b>6.1000e-004</b>	<b>10.3733</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Annual

	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	0.0516	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0100e-003	1.0100e-003	0.0000	0.0000	1.0800e-003
Unmitigated	0.0516	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0100e-003	1.0100e-003	0.0000	0.0000	1.0800e-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	6.5700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0450					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0100e-003	1.0100e-003	0.0000	0.0000	1.0800e-003
<b>Total</b>	<b>0.0516</b>	<b>0.0000</b>	<b>5.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0800e-003</b>

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	6.5700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0450					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0100e-003	1.0100e-003	0.0000	0.0000	1.0800e-003
<b>Total</b>	<b>0.0516</b>	<b>0.0000</b>	<b>5.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0100e-003</b>	<b>1.0100e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0800e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.2530	0.0698	1.6800e-003	3.4991
Unmitigated	1.2530	0.0698	1.6800e-003	3.4991

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government Office Building	2.13758 / 0.36	1.2530	0.0698	1.6800e-003	3.4991
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.2530</b>	<b>0.0698</b>	<b>1.6800e-003</b>	<b>3.4991</b>

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government Office Building	2.13758 / 0.36	1.2530	0.0698	1.6800e-003	3.4991
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>1.2530</b>	<b>0.0698</b>	<b>1.6800e-003</b>	<b>3.4991</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.0319	0.1201	0.0000	5.0340
Unmitigated	2.0319	0.1201	0.0000	5.0340



Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government Office Building	10.01	2.0319	0.1201	0.0000	5.0340
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2.0319</b>	<b>0.1201</b>	<b>0.0000</b>	<b>5.0340</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government Office Building	10.01	2.0319	0.1201	0.0000	5.0340
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>2.0319</b>	<b>0.1201</b>	<b>0.0000</b>	<b>5.0340</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Annual

**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	24	250	268	0.73	Diesel

**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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**10.1 Stationary Sources**

**Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (175 - 300 HP)	0.0550	0.1537	0.1402	2.6000e-004		8.0900e-003	8.0900e-003		8.0900e-003	8.0900e-003	0.0000	25.5134	25.5134	3.5800e-003	0.0000	25.6028
<b>Total</b>	<b>0.0550</b>	<b>0.1537</b>	<b>0.1402</b>	<b>2.6000e-004</b>		<b>8.0900e-003</b>	<b>8.0900e-003</b>		<b>8.0900e-003</b>	<b>8.0900e-003</b>	<b>0.0000</b>	<b>25.5134</b>	<b>25.5134</b>	<b>3.5800e-003</b>	<b>0.0000</b>	<b>25.6028</b>

**11.0 Vegetation**

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Summer

**Santa Rosa Fire Station 5**  
**Bay Area AQMD Air District, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	10.76	1000sqft	1.05	10,760.00	0
Parking Lot	46.00	1000sqft	1.06	46,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	4			<b>Operational Year</b>	2024
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	98.81	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Summer

Project Characteristics - Modeler: Erica. Updated CO2 intensity per Sonoma clean power 2018 levels.

Land Use - Project land use information from 3/4 data request response. Gov office building includes landscaping as part of lot acreage.

Construction Phase - Shortened Demo phase. Added extra building phase for foundation and vertical construction. 25% of construction time to foundation, 75% to vertical. Added trenching phase.

Trips and VMT - Changed grading trip hauling length to 25 from 20.

Grading - CY of 8,000 cut, plus 250 CY of wood chips from stumps/trees.

Vehicle Trips - Updated per W Trans Appendix G write up w/daily rate for community room addition from existing conditions.

Energy Use - T24 standards adjusted downwards to reflect increased efficiency between 2016-2019 standards (CEC, 2017). NG was 0 per applicant's data request response to use electricity. Electricity rate was increased x1.27 for increased electricity in lieu of NG.

Water And Wastewater - Updated outdoor water use w/applicant annual approximation.

Construction Off-road Equipment Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps - Per applicant's project description, converted 200kW to 268 HP. Hours/day for testing. Hours/year include testing for maintenance.

## Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	220.00	50.00
tblConstructionPhase	NumDays	220.00	150.00
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	NumDays	6.00	10.00
tblEnergyUse	NT24NG	0.06	0.00
tblEnergyUse	T24E	6.11	7.76
tblEnergyUse	T24NG	16.31	0.00
tblGrading	AcresOfGrading	5.00	3.00
tblGrading	MaterialExported	0.00	8,250.00
tblLandUse	LotAcreage	0.25	1.05
tblProjectCharacteristics	CO2IntensityFactor	641.35	98.81
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblVehicleTrips	ST_TR	0.00	4.74
tblVehicleTrips	SU_TR	0.00	4.74
tblVehicleTrips	WD_TR	68.93	4.74
tblWater	OutdoorWaterUseRate	1,310,128.59	360,000.00

## 2.0 Emissions Summary

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Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Summer

**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	lb/day										lb/day					
Area	0.2831	5.0000e-005	5.7900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0124	0.0124	3.0000e-005		0.0132
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0634	0.2337	0.5613	2.1000e-003	0.1858	1.6500e-003	0.1874	0.0497	1.5400e-003	0.0512		213.0625	213.0625	7.3000e-003		213.2449
Stationary	10.5554	29.5018	26.9139	0.0507		1.5527	1.5527		1.5527	1.5527		5,399.7548	5,399.7548	0.7571		5,418.6810
<b>Total</b>	<b>10.9018</b>	<b>29.7355</b>	<b>27.4809</b>	<b>0.0528</b>	<b>0.1858</b>	<b>1.5544</b>	<b>1.7402</b>	<b>0.0497</b>	<b>1.5543</b>	<b>1.6040</b>		<b>5,612.8298</b>	<b>5,612.8298</b>	<b>0.7644</b>	<b>0.0000</b>	<b>5,631.9391</b>

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Summer

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2831	5.0000e-005	5.7900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0124	0.0124	3.0000e-005		0.0132
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0634	0.2337	0.5613	2.1000e-003	0.1858	1.6500e-003	0.1874	0.0497	1.5400e-003	0.0512		213.0625	213.0625	7.3000e-003		213.2449
Stationary	10.5554	29.5018	26.9139	0.0507		1.5527	1.5527		1.5527	1.5527		5,399.7548	5,399.7548	0.7571		5,418.6810
<b>Total</b>	<b>10.9018</b>	<b>29.7355</b>	<b>27.4809</b>	<b>0.0528</b>	<b>0.1858</b>	<b>1.5544</b>	<b>1.7402</b>	<b>0.0497</b>	<b>1.5543</b>	<b>1.6040</b>		<b>5,612.8298</b>	<b>5,612.8298</b>	<b>0.7644</b>	<b>0.0000</b>	<b>5,631.9391</b>

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



Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/2/2023	1/2/2023	5	1	
2	Site Preparation	Site Preparation	1/3/2023	1/5/2023	5	3	
3	Grading	Grading	1/6/2023	1/19/2023	5	10	
4	Utility Trenching	Trenching	1/20/2023	2/2/2023	5	10	
5	Paving	Paving	2/3/2023	2/16/2023	5	10	
6	Building Construction 1	Building Construction	2/17/2023	4/27/2023	5	50	Foundation
7	Building Construction 2	Building Construction	4/28/2023	11/23/2023	5	150	Vertical
8	Architectural Coating	Architectural Coating	11/25/2023	12/8/2023	5	10	

**Acres of Grading (Site Preparation Phase): 4.5**

**Acres of Grading (Grading Phase): 3**

**Acres of Paving: 1.06**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 16,140; Non-Residential Outdoor: 5,380; Striped Parking Area: 2,760 (Architectural Coating – sqft)**

**OffRoad Equipment**

## Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction 1	Cranes	1	8.00	231	0.29
Building Construction 1	Forklifts	2	7.00	89	0.20
Building Construction 1	Generator Sets	1	8.00	84	0.74
Building Construction 1	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction 1	Welders	3	8.00	46	0.45
Building Construction 2	Cranes	1	8.00	231	0.29
Building Construction 2	Forklifts	2	7.00	89	0.20
Building Construction 2	Generator Sets	1	8.00	84	0.74
Building Construction 2	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction 2	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Summer

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	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	1,031.00	10.80	7.30	25.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching			0.00	0.00	10.80	7.30				
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 1	8	23.00	9.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 2	8	23.00	9.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 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	lb/day										lb/day					
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328		2,324.3959	2,324.3959	0.5893		2,339.1278
<b>Total</b>	<b>1.4725</b>	<b>14.3184</b>	<b>13.4577</b>	<b>0.0241</b>		<b>0.6766</b>	<b>0.6766</b>		<b>0.6328</b>	<b>0.6328</b>		<b>2,324.3959</b>	<b>2,324.3959</b>	<b>0.5893</b>		<b>2,339.1278</b>

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Summer

**3.2 Demolition - 2023**

**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	lb/day										lb/day					
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
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
Worker	0.0363	0.0197	0.2714	9.6000e-004	0.1068	6.4000e-004	0.1074	0.0283	5.9000e-004	0.0289		95.3743	95.3743	1.8600e-003		95.4207
<b>Total</b>	<b>0.0363</b>	<b>0.0197</b>	<b>0.2714</b>	<b>9.6000e-004</b>	<b>0.1068</b>	<b>6.4000e-004</b>	<b>0.1074</b>	<b>0.0283</b>	<b>5.9000e-004</b>	<b>0.0289</b>		<b>95.3743</b>	<b>95.3743</b>	<b>1.8600e-003</b>		<b>95.4207</b>

**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	lb/day										lb/day					
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328	0.0000	2,324.3959	2,324.3959	0.5893		2,339.1278
<b>Total</b>	<b>1.4725</b>	<b>14.3184</b>	<b>13.4577</b>	<b>0.0241</b>		<b>0.6766</b>	<b>0.6766</b>		<b>0.6328</b>	<b>0.6328</b>	<b>0.0000</b>	<b>2,324.3959</b>	<b>2,324.3959</b>	<b>0.5893</b>		<b>2,339.1278</b>

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Summer

**3.2 Demolition - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0363	0.0197	0.2714	9.6000e-004	0.1068	6.4000e-004	0.1074	0.0283	5.9000e-004	0.0289		95.3743	95.3743	1.8600e-003		95.4207
<b>Total</b>	<b>0.0363</b>	<b>0.0197</b>	<b>0.2714</b>	<b>9.6000e-004</b>	<b>0.1068</b>	<b>6.4000e-004</b>	<b>0.1074</b>	<b>0.0283</b>	<b>5.9000e-004</b>	<b>0.0289</b>		<b>95.3743</b>	<b>95.3743</b>	<b>1.8600e-003</b>		<b>95.4207</b>

**3.3 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.3027	14.2802	9.7820	0.0245		0.5419	0.5419		0.4985	0.4985		2,374.8634	2,374.8634	0.7681		2,394.0654
<b>Total</b>	<b>1.3027</b>	<b>14.2802</b>	<b>9.7820</b>	<b>0.0245</b>	<b>1.5908</b>	<b>0.5419</b>	<b>2.1326</b>	<b>0.1718</b>	<b>0.4985</b>	<b>0.6703</b>		<b>2,374.8634</b>	<b>2,374.8634</b>	<b>0.7681</b>		<b>2,394.0654</b>

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Summer

**3.3 Site Preparation - 2023**

**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	lb/day										lb/day					
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
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
Worker	0.0224	0.0121	0.1670	5.9000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.6000e-004	0.0178		58.6919	58.6919	1.1400e-003		58.7205
<b>Total</b>	<b>0.0224</b>	<b>0.0121</b>	<b>0.1670</b>	<b>5.9000e-004</b>	<b>0.0657</b>	<b>4.0000e-004</b>	<b>0.0661</b>	<b>0.0174</b>	<b>3.6000e-004</b>	<b>0.0178</b>		<b>58.6919</b>	<b>58.6919</b>	<b>1.1400e-003</b>		<b>58.7205</b>

**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	lb/day										lb/day					
Fugitive Dust					0.7158	0.0000	0.7158	0.0773	0.0000	0.0773			0.0000			0.0000
Off-Road	1.3027	14.2802	9.7820	0.0245		0.5419	0.5419		0.4985	0.4985	0.0000	2,374.8634	2,374.8634	0.7681		2,394.0654
<b>Total</b>	<b>1.3027</b>	<b>14.2802</b>	<b>9.7820</b>	<b>0.0245</b>	<b>0.7158</b>	<b>0.5419</b>	<b>1.2577</b>	<b>0.0773</b>	<b>0.4985</b>	<b>0.5758</b>	<b>0.0000</b>	<b>2,374.8634</b>	<b>2,374.8634</b>	<b>0.7681</b>		<b>2,394.0654</b>

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Summer

**3.3 Site Preparation - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0224	0.0121	0.1670	5.9000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.6000e-004	0.0178		58.6919	58.6919	1.1400e-003		58.7205
<b>Total</b>	<b>0.0224</b>	<b>0.0121</b>	<b>0.1670</b>	<b>5.9000e-004</b>	<b>0.0657</b>	<b>4.0000e-004</b>	<b>0.0661</b>	<b>0.0174</b>	<b>3.6000e-004</b>	<b>0.0178</b>		<b>58.6919</b>	<b>58.6919</b>	<b>1.1400e-003</b>		<b>58.7205</b>

**3.4 Grading - 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	lb/day										lb/day					
Fugitive Dust					6.4335	0.0000	6.4335	3.3587	0.0000	3.3587			0.0000			0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560		1,995.6147	1,995.6147	0.6454		2,011.7503
<b>Total</b>	<b>1.3330</b>	<b>14.4676</b>	<b>8.7038</b>	<b>0.0206</b>	<b>6.4335</b>	<b>0.6044</b>	<b>7.0379</b>	<b>3.3587</b>	<b>0.5560</b>	<b>3.9147</b>		<b>1,995.6147</b>	<b>1,995.6147</b>	<b>0.6454</b>		<b>2,011.7503</b>

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Summer

**3.4 Grading - 2023**

**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	lb/day										lb/day					
Hauling	0.6188	19.0902	6.2112	0.0932	2.2514	0.0375	2.2889	0.6169	0.0359	0.6528		9,998.6915	9,998.6915	0.4469		10,009.8632
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
Worker	0.0279	0.0152	0.2088	7.4000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.6000e-004	0.0222		73.3649	73.3649	1.4300e-003		73.4006
<b>Total</b>	<b>0.6468</b>	<b>19.1053</b>	<b>6.4200</b>	<b>0.0939</b>	<b>2.3335</b>	<b>0.0380</b>	<b>2.3715</b>	<b>0.6387</b>	<b>0.0364</b>	<b>0.6751</b>		<b>10,072.0563</b>	<b>10,072.0563</b>	<b>0.4483</b>		<b>10,083.2637</b>

**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	lb/day										lb/day					
Fugitive Dust					2.8951	0.0000	2.8951	1.5114	0.0000	1.5114			0.0000			0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560	0.0000	1,995.6147	1,995.6147	0.6454		2,011.7503
<b>Total</b>	<b>1.3330</b>	<b>14.4676</b>	<b>8.7038</b>	<b>0.0206</b>	<b>2.8951</b>	<b>0.6044</b>	<b>3.4994</b>	<b>1.5114</b>	<b>0.5560</b>	<b>2.0674</b>	<b>0.0000</b>	<b>1,995.6147</b>	<b>1,995.6147</b>	<b>0.6454</b>		<b>2,011.7503</b>



Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Summer

**3.4 Grading - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6188	19.0902	6.2112	0.0932	2.2514	0.0375	2.2889	0.6169	0.0359	0.6528		9,998.6915	9,998.6915	0.4469		10,009.8632
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
Worker	0.0279	0.0152	0.2088	7.4000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.6000e-004	0.0222		73.3649	73.3649	1.4300e-003		73.4006
<b>Total</b>	<b>0.6468</b>	<b>19.1053</b>	<b>6.4200</b>	<b>0.0939</b>	<b>2.3335</b>	<b>0.0380</b>	<b>2.3715</b>	<b>0.6387</b>	<b>0.0364</b>	<b>0.6751</b>		<b>10,072.0563</b>	<b>10,072.0563</b>	<b>0.4483</b>		<b>10,083.2637</b>

**3.5 Utility Trenching - 2023**

**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	lb/day										lb/day					
Hauling					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
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
<b>Total</b>					<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>			<b>0.0000</b>

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Summer

**3.5 Utility Trenching - 2023**

**Mitigated Construction Off-Site**

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

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003		1,709.9926	1,709.9926	0.5420		1,723.5414
Paving	0.2777					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1579</b>	<b>8.6098</b>	<b>11.6840</b>	<b>0.0179</b>		<b>0.4338</b>	<b>0.4338</b>		<b>0.4003</b>	<b>0.4003</b>		<b>1,709.9926</b>	<b>1,709.9926</b>	<b>0.5420</b>		<b>1,723.5414</b>

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Summer

**3.6 Paving - 2023**

**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	lb/day										lb/day					
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
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
Worker	0.0419	0.0227	0.3131	1.1000e-003	0.1232	7.4000e-004	0.1240	0.0327	6.8000e-004	0.0334		110.0473	110.0473	2.1400e-003		110.1009
<b>Total</b>	<b>0.0419</b>	<b>0.0227</b>	<b>0.3131</b>	<b>1.1000e-003</b>	<b>0.1232</b>	<b>7.4000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>6.8000e-004</b>	<b>0.0334</b>		<b>110.0473</b>	<b>110.0473</b>	<b>2.1400e-003</b>		<b>110.1009</b>

**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	lb/day										lb/day					
Off-Road	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003	0.0000	1,709.9926	1,709.9926	0.5420		1,723.5414
Paving	0.2777					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1579</b>	<b>8.6098</b>	<b>11.6840</b>	<b>0.0179</b>		<b>0.4338</b>	<b>0.4338</b>		<b>0.4003</b>	<b>0.4003</b>	<b>0.0000</b>	<b>1,709.9926</b>	<b>1,709.9926</b>	<b>0.5420</b>		<b>1,723.5414</b>

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Summer

**3.6 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0419	0.0227	0.3131	1.1000e-003	0.1232	7.4000e-004	0.1240	0.0327	6.8000e-004	0.0334		110.0473	110.0473	2.1400e-003		110.1009
<b>Total</b>	<b>0.0419</b>	<b>0.0227</b>	<b>0.3131</b>	<b>1.1000e-003</b>	<b>0.1232</b>	<b>7.4000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>6.8000e-004</b>	<b>0.0334</b>		<b>110.0473</b>	<b>110.0473</b>	<b>2.1400e-003</b>		<b>110.1009</b>

**3.7 Building Construction 1 - 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	lb/day										lb/day					
Off-Road	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880		2,289.5233	2,289.5233	0.4330		2,300.3479
<b>Total</b>	<b>1.7136</b>	<b>13.6239</b>	<b>14.2145</b>	<b>0.0250</b>		<b>0.6136</b>	<b>0.6136</b>		<b>0.5880</b>	<b>0.5880</b>		<b>2,289.5233</b>	<b>2,289.5233</b>	<b>0.4330</b>		<b>2,300.3479</b>

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Summer

**3.7 Building Construction 1 - 2023**

**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	lb/day										lb/day					
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
Vendor	0.0195	0.6812	0.1857	2.3600e-003	0.0609	7.8000e-004	0.0617	0.0175	7.4000e-004	0.0183		250.2854	250.2854	9.9700e-003		250.5348
Worker	0.0643	0.0349	0.4801	1.6900e-003	0.1889	1.1400e-003	0.1901	0.0501	1.0500e-003	0.0512		168.7392	168.7392	3.2800e-003		168.8213
<b>Total</b>	<b>0.0838</b>	<b>0.7161</b>	<b>0.6658</b>	<b>4.0500e-003</b>	<b>0.2499</b>	<b>1.9200e-003</b>	<b>0.2518</b>	<b>0.0677</b>	<b>1.7900e-003</b>	<b>0.0694</b>		<b>419.0246</b>	<b>419.0246</b>	<b>0.0133</b>		<b>419.3561</b>

**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	lb/day										lb/day					
Off-Road	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880	0.0000	2,289.5233	2,289.5233	0.4330		2,300.3479
<b>Total</b>	<b>1.7136</b>	<b>13.6239</b>	<b>14.2145</b>	<b>0.0250</b>		<b>0.6136</b>	<b>0.6136</b>		<b>0.5880</b>	<b>0.5880</b>	<b>0.0000</b>	<b>2,289.5233</b>	<b>2,289.5233</b>	<b>0.4330</b>		<b>2,300.3479</b>

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Summer

**3.7 Building Construction 1 - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	0.0195	0.6812	0.1857	2.3600e-003	0.0609	7.8000e-004	0.0617	0.0175	7.4000e-004	0.0183		250.2854	250.2854	9.9700e-003		250.5348
Worker	0.0643	0.0349	0.4801	1.6900e-003	0.1889	1.1400e-003	0.1901	0.0501	1.0500e-003	0.0512		168.7392	168.7392	3.2800e-003		168.8213
<b>Total</b>	<b>0.0838</b>	<b>0.7161</b>	<b>0.6658</b>	<b>4.0500e-003</b>	<b>0.2499</b>	<b>1.9200e-003</b>	<b>0.2518</b>	<b>0.0677</b>	<b>1.7900e-003</b>	<b>0.0694</b>		<b>419.0246</b>	<b>419.0246</b>	<b>0.0133</b>		<b>419.3561</b>

**3.8 Building Construction 2 - 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	lb/day										lb/day					
Off-Road	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880		2,289.5233	2,289.5233	0.4330		2,300.3479
<b>Total</b>	<b>1.7136</b>	<b>13.6239</b>	<b>14.2145</b>	<b>0.0250</b>		<b>0.6136</b>	<b>0.6136</b>		<b>0.5880</b>	<b>0.5880</b>		<b>2,289.5233</b>	<b>2,289.5233</b>	<b>0.4330</b>		<b>2,300.3479</b>

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Summer

**3.8 Building Construction 2 - 2023**

**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	lb/day										lb/day					
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
Vendor	0.0195	0.6812	0.1857	2.3600e-003	0.0609	7.8000e-004	0.0617	0.0175	7.4000e-004	0.0183		250.2854	250.2854	9.9700e-003		250.5348
Worker	0.0643	0.0349	0.4801	1.6900e-003	0.1889	1.1400e-003	0.1901	0.0501	1.0500e-003	0.0512		168.7392	168.7392	3.2800e-003		168.8213
<b>Total</b>	<b>0.0838</b>	<b>0.7161</b>	<b>0.6658</b>	<b>4.0500e-003</b>	<b>0.2499</b>	<b>1.9200e-003</b>	<b>0.2518</b>	<b>0.0677</b>	<b>1.7900e-003</b>	<b>0.0694</b>		<b>419.0246</b>	<b>419.0246</b>	<b>0.0133</b>		<b>419.3561</b>

**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	lb/day										lb/day					
Off-Road	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880	0.0000	2,289.5233	2,289.5233	0.4330		2,300.3479
<b>Total</b>	<b>1.7136</b>	<b>13.6239</b>	<b>14.2145</b>	<b>0.0250</b>		<b>0.6136</b>	<b>0.6136</b>		<b>0.5880</b>	<b>0.5880</b>	<b>0.0000</b>	<b>2,289.5233</b>	<b>2,289.5233</b>	<b>0.4330</b>		<b>2,300.3479</b>

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Summer

**3.8 Building Construction 2 - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	0.0195	0.6812	0.1857	2.3600e-003	0.0609	7.8000e-004	0.0617	0.0175	7.4000e-004	0.0183		250.2854	250.2854	9.9700e-003		250.5348
Worker	0.0643	0.0349	0.4801	1.6900e-003	0.1889	1.1400e-003	0.1901	0.0501	1.0500e-003	0.0512		168.7392	168.7392	3.2800e-003		168.8213
<b>Total</b>	<b>0.0838</b>	<b>0.7161</b>	<b>0.6658</b>	<b>4.0500e-003</b>	<b>0.2499</b>	<b>1.9200e-003</b>	<b>0.2518</b>	<b>0.0677</b>	<b>1.7900e-003</b>	<b>0.0694</b>		<b>419.0246</b>	<b>419.0246</b>	<b>0.0133</b>		<b>419.3561</b>

**3.9 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	lb/day										lb/day					
Archit. Coating	13.1402					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>13.3319</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>



Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Summer

**3.9 Architectural Coating - 2023**

**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	lb/day										lb/day					
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
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
Worker	0.0140	7.5800e-003	0.1044	3.7000e-004	0.0411	2.5000e-004	0.0413	0.0109	2.3000e-004	0.0111		36.6824	36.6824	7.1000e-004		36.7003
<b>Total</b>	<b>0.0140</b>	<b>7.5800e-003</b>	<b>0.1044</b>	<b>3.7000e-004</b>	<b>0.0411</b>	<b>2.5000e-004</b>	<b>0.0413</b>	<b>0.0109</b>	<b>2.3000e-004</b>	<b>0.0111</b>		<b>36.6824</b>	<b>36.6824</b>	<b>7.1000e-004</b>		<b>36.7003</b>

**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	lb/day										lb/day					
Archit. Coating	13.1402					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>13.3319</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Summer

**3.9 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0140	7.5800e-003	0.1044	3.7000e-004	0.0411	2.5000e-004	0.0413	0.0109	2.3000e-004	0.0111		36.6824	36.6824	7.1000e-004		36.7003
<b>Total</b>	<b>0.0140</b>	<b>7.5800e-003</b>	<b>0.1044</b>	<b>3.7000e-004</b>	<b>0.0411</b>	<b>2.5000e-004</b>	<b>0.0413</b>	<b>0.0109</b>	<b>2.3000e-004</b>	<b>0.0111</b>		<b>36.6824</b>	<b>36.6824</b>	<b>7.1000e-004</b>		<b>36.7003</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Summer

	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	lb/day										lb/day					
Mitigated	0.0634	0.2337	0.5613	2.1000e-003	0.1858	1.6500e-003	0.1874	0.0497	1.5400e-003	0.0512		213.0625	213.0625	7.3000e-003		213.2449
Unmitigated	0.0634	0.2337	0.5613	2.1000e-003	0.1858	1.6500e-003	0.1874	0.0497	1.5400e-003	0.0512		213.0625	213.0625	7.3000e-003		213.2449

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government Office Building	51.00	51.00	51.00	87,463	87,463
Parking Lot	0.00	0.00	0.00		
Total	51.00	51.00	51.00	87,463	87,463

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00	50	34	16
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Government Office Building	0.580272	0.038274	0.193741	0.109917	0.015100	0.005324	0.018491	0.026678	0.002649	0.002134	0.005793	0.000896	0.000732
Parking Lot	0.580272	0.038274	0.193741	0.109917	0.015100	0.005324	0.018491	0.026678	0.002649	0.002134	0.005793	0.000896	0.000732

**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	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Summer

**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	lb/day										lb/day					
Government Office Building	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
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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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	lb/day										lb/day					
Government Office Building	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
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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Summer

	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	lb/day										lb/day					
Mitigated	0.2831	5.0000e-005	5.7900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0124	0.0124	3.0000e-005		0.0132
Unmitigated	0.2831	5.0000e-005	5.7900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0124	0.0124	3.0000e-005		0.0132

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	lb/day										lb/day					
Architectural Coating	0.0360					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2466					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.3000e-004	5.0000e-005	5.7900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0124	0.0124	3.0000e-005		0.0132
<b>Total</b>	<b>0.2831</b>	<b>5.0000e-005</b>	<b>5.7900e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0124</b>	<b>0.0124</b>	<b>3.0000e-005</b>		<b>0.0132</b>

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Summer

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0360					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2466					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.3000e-004	5.0000e-005	5.7900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0124	0.0124	3.0000e-005		0.0132
<b>Total</b>	<b>0.2831</b>	<b>5.0000e-005</b>	<b>5.7900e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0124</b>	<b>0.0124</b>	<b>3.0000e-005</b>		<b>0.0132</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Summer

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	24	250	268	0.73	Diesel

**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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**10.1 Stationary Sources**

**Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (175 - 300 HP)	10.5554	29.5018	26.9139	0.0507		1.5527	1.5527		1.5527	1.5527		5,399.7548	5,399.7548	0.7571		5,418.6810
<b>Total</b>	<b>10.5554</b>	<b>29.5018</b>	<b>26.9139</b>	<b>0.0507</b>		<b>1.5527</b>	<b>1.5527</b>		<b>1.5527</b>	<b>1.5527</b>		<b>5,399.7548</b>	<b>5,399.7548</b>	<b>0.7571</b>		<b>5,418.6810</b>

**11.0 Vegetation**

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Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Winter

**Santa Rosa Fire Station 5**  
**Bay Area AQMD Air District, Winter**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	10.76	1000sqft	1.05	10,760.00	0
Parking Lot	46.00	1000sqft	1.06	46,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	64
<b>Climate Zone</b>	4			<b>Operational Year</b>	2024
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	98.81	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Winter

Project Characteristics - Modeler: Erica. Updated CO2 intensity per Sonoma clean power 2018 levels.

Land Use - Project land use information from 3/4 data request response. Gov office building includes landscaping as part of lot acreage.

Construction Phase - Shortened Demo phase. Added extra building phase for foundation and vertical construction. 25% of construction time to foundation, 75% to vertical. Added trenching phase.

Trips and VMT - Changed grading trip hauling length to 25 from 20.

Grading - CY of 8,000 cut, plus 250 CY of wood chips from stumps/trees.

Vehicle Trips - Updated per W Trans Appendix G write up w/daily rate for community room addition from existing conditions.

Energy Use - T24 standards adjusted downwards to reflect increased efficiency between 2016-2019 standards (CEC, 2017). NG was 0 per applicant's data request response to use electricity. Electricity rate was increased x1.27 for increased electricity in lieu of NG.

Water And Wastewater - Updated outdoor water use w/applicant annual approximation.

Construction Off-road Equipment Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps - Per applicant's project description, converted 200kW to 268 HP. Hours/day for testing. Hours/year include testing for maintenance.

## Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Winter

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	220.00	50.00
tblConstructionPhase	NumDays	220.00	150.00
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	NumDays	6.00	10.00
tblEnergyUse	NT24NG	0.06	0.00
tblEnergyUse	T24E	6.11	7.76
tblEnergyUse	T24NG	16.31	0.00
tblGrading	AcresOfGrading	5.00	3.00
tblGrading	MaterialExported	0.00	8,250.00
tblLandUse	LotAcreage	0.25	1.05
tblProjectCharacteristics	CO2IntensityFactor	641.35	98.81
tblTripsAndVMT	HaulingTripLength	20.00	25.00
tblVehicleTrips	ST_TR	0.00	4.74
tblVehicleTrips	SU_TR	0.00	4.74
tblVehicleTrips	WD_TR	68.93	4.74
tblWater	OutdoorWaterUseRate	1,310,128.59	360,000.00

## 2.0 Emissions Summary

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Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Winter

**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	lb/day										lb/day					
Area	0.2831	5.0000e-005	5.7900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0124	0.0124	3.0000e-005		0.0132
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0537	0.2429	0.5791	1.9700e-003	0.1858	1.6600e-003	0.1874	0.0497	1.5500e-003	0.0512		199.4920	199.4920	7.5400e-003		199.6806
Stationary	10.5554	29.5018	26.9139	0.0507		1.5527	1.5527		1.5527	1.5527		5,399.7548	5,399.7548	0.7571		5,418.6810
<b>Total</b>	<b>10.8921</b>	<b>29.7448</b>	<b>27.4987</b>	<b>0.0527</b>	<b>0.1858</b>	<b>1.5544</b>	<b>1.7402</b>	<b>0.0497</b>	<b>1.5543</b>	<b>1.6040</b>		<b>5,599.2593</b>	<b>5,599.2593</b>	<b>0.7646</b>	<b>0.0000</b>	<b>5,618.3748</b>

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Winter

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.2831	5.0000e-005	5.7900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0124	0.0124	3.0000e-005		0.0132
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0537	0.2429	0.5791	1.9700e-003	0.1858	1.6600e-003	0.1874	0.0497	1.5500e-003	0.0512		199.4920	199.4920	7.5400e-003		199.6806
Stationary	10.5554	29.5018	26.9139	0.0507		1.5527	1.5527		1.5527	1.5527		5,399.7548	5,399.7548	0.7571		5,418.6810
<b>Total</b>	<b>10.8921</b>	<b>29.7448</b>	<b>27.4987</b>	<b>0.0527</b>	<b>0.1858</b>	<b>1.5544</b>	<b>1.7402</b>	<b>0.0497</b>	<b>1.5543</b>	<b>1.6040</b>		<b>5,599.2593</b>	<b>5,599.2593</b>	<b>0.7646</b>	<b>0.0000</b>	<b>5,618.3748</b>

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

**3.0 Construction Detail**

**Construction Phase**

## Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Winter

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/2/2023	1/2/2023	5	1	
2	Site Preparation	Site Preparation	1/3/2023	1/5/2023	5	3	
3	Grading	Grading	1/6/2023	1/19/2023	5	10	
4	Utility Trenching	Trenching	1/20/2023	2/2/2023	5	10	
5	Paving	Paving	2/3/2023	2/16/2023	5	10	
6	Building Construction 1	Building Construction	2/17/2023	4/27/2023	5	50	Foundation
7	Building Construction 2	Building Construction	4/28/2023	11/23/2023	5	150	Vertical
8	Architectural Coating	Architectural Coating	11/25/2023	12/8/2023	5	10	

**Acres of Grading (Site Preparation Phase): 4.5**

**Acres of Grading (Grading Phase): 3**

**Acres of Paving: 1.06**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 16,140; Non-Residential Outdoor: 5,380; Striped Parking Area: 2,760 (Architectural Coating – sqft)**

**OffRoad Equipment**

## Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction 1	Cranes	1	8.00	231	0.29
Building Construction 1	Forklifts	2	7.00	89	0.20
Building Construction 1	Generator Sets	1	8.00	84	0.74
Building Construction 1	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction 1	Welders	3	8.00	46	0.45
Building Construction 2	Cranes	1	8.00	231	0.29
Building Construction 2	Forklifts	2	7.00	89	0.20
Building Construction 2	Generator Sets	1	8.00	84	0.74
Building Construction 2	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction 2	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**



Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Winter

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	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	1,031.00	10.80	7.30	25.00	LD_Mix	HDT_Mix	HHDT
Utility Trenching			0.00	0.00	10.80	7.30				
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 1	8	23.00	9.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction 2	8	23.00	9.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 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	lb/day										lb/day					
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328		2,324.3959	2,324.3959	0.5893		2,339.1278
<b>Total</b>	<b>1.4725</b>	<b>14.3184</b>	<b>13.4577</b>	<b>0.0241</b>		<b>0.6766</b>	<b>0.6766</b>		<b>0.6328</b>	<b>0.6328</b>		<b>2,324.3959</b>	<b>2,324.3959</b>	<b>0.5893</b>		<b>2,339.1278</b>

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Winter

**3.2 Demolition - 2023**

**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	lb/day										lb/day					
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
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
Worker	0.0387	0.0243	0.2518	8.8000e-004	0.1068	6.4000e-004	0.1074	0.0283	5.9000e-004	0.0289		87.8642	87.8642	1.7200e-003		87.9071
<b>Total</b>	<b>0.0387</b>	<b>0.0243</b>	<b>0.2518</b>	<b>8.8000e-004</b>	<b>0.1068</b>	<b>6.4000e-004</b>	<b>0.1074</b>	<b>0.0283</b>	<b>5.9000e-004</b>	<b>0.0289</b>		<b>87.8642</b>	<b>87.8642</b>	<b>1.7200e-003</b>		<b>87.9071</b>

**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	lb/day										lb/day					
Off-Road	1.4725	14.3184	13.4577	0.0241		0.6766	0.6766		0.6328	0.6328	0.0000	2,324.3959	2,324.3959	0.5893		2,339.1278
<b>Total</b>	<b>1.4725</b>	<b>14.3184</b>	<b>13.4577</b>	<b>0.0241</b>		<b>0.6766</b>	<b>0.6766</b>		<b>0.6328</b>	<b>0.6328</b>	<b>0.0000</b>	<b>2,324.3959</b>	<b>2,324.3959</b>	<b>0.5893</b>		<b>2,339.1278</b>

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Winter

**3.2 Demolition - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0387	0.0243	0.2518	8.8000e-004	0.1068	6.4000e-004	0.1074	0.0283	5.9000e-004	0.0289		87.8642	87.8642	1.7200e-003		87.9071
<b>Total</b>	<b>0.0387</b>	<b>0.0243</b>	<b>0.2518</b>	<b>8.8000e-004</b>	<b>0.1068</b>	<b>6.4000e-004</b>	<b>0.1074</b>	<b>0.0283</b>	<b>5.9000e-004</b>	<b>0.0289</b>		<b>87.8642</b>	<b>87.8642</b>	<b>1.7200e-003</b>		<b>87.9071</b>

**3.3 Site Preparation - 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	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.3027	14.2802	9.7820	0.0245		0.5419	0.5419		0.4985	0.4985		2,374.8634	2,374.8634	0.7681		2,394.0654
<b>Total</b>	<b>1.3027</b>	<b>14.2802</b>	<b>9.7820</b>	<b>0.0245</b>	<b>1.5908</b>	<b>0.5419</b>	<b>2.1326</b>	<b>0.1718</b>	<b>0.4985</b>	<b>0.6703</b>		<b>2,374.8634</b>	<b>2,374.8634</b>	<b>0.7681</b>		<b>2,394.0654</b>

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Winter

**3.3 Site Preparation - 2023**

**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	lb/day										lb/day					
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
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
Worker	0.0238	0.0150	0.1550	5.4000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.6000e-004	0.0178		54.0703	54.0703	1.0600e-003		54.0967
<b>Total</b>	<b>0.0238</b>	<b>0.0150</b>	<b>0.1550</b>	<b>5.4000e-004</b>	<b>0.0657</b>	<b>4.0000e-004</b>	<b>0.0661</b>	<b>0.0174</b>	<b>3.6000e-004</b>	<b>0.0178</b>		<b>54.0703</b>	<b>54.0703</b>	<b>1.0600e-003</b>		<b>54.0967</b>

**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	lb/day										lb/day					
Fugitive Dust					0.7158	0.0000	0.7158	0.0773	0.0000	0.0773			0.0000			0.0000
Off-Road	1.3027	14.2802	9.7820	0.0245		0.5419	0.5419		0.4985	0.4985	0.0000	2,374.8634	2,374.8634	0.7681		2,394.0654
<b>Total</b>	<b>1.3027</b>	<b>14.2802</b>	<b>9.7820</b>	<b>0.0245</b>	<b>0.7158</b>	<b>0.5419</b>	<b>1.2577</b>	<b>0.0773</b>	<b>0.4985</b>	<b>0.5758</b>	<b>0.0000</b>	<b>2,374.8634</b>	<b>2,374.8634</b>	<b>0.7681</b>		<b>2,394.0654</b>

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**3.3 Site Preparation - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0238	0.0150	0.1550	5.4000e-004	0.0657	4.0000e-004	0.0661	0.0174	3.6000e-004	0.0178		54.0703	54.0703	1.0600e-003		54.0967
<b>Total</b>	<b>0.0238</b>	<b>0.0150</b>	<b>0.1550</b>	<b>5.4000e-004</b>	<b>0.0657</b>	<b>4.0000e-004</b>	<b>0.0661</b>	<b>0.0174</b>	<b>3.6000e-004</b>	<b>0.0178</b>		<b>54.0703</b>	<b>54.0703</b>	<b>1.0600e-003</b>		<b>54.0967</b>

**3.4 Grading - 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	lb/day										lb/day					
Fugitive Dust					6.4335	0.0000	6.4335	3.3587	0.0000	3.3587			0.0000			0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560		1,995.6147	1,995.6147	0.6454		2,011.7503
<b>Total</b>	<b>1.3330</b>	<b>14.4676</b>	<b>8.7038</b>	<b>0.0206</b>	<b>6.4335</b>	<b>0.6044</b>	<b>7.0379</b>	<b>3.3587</b>	<b>0.5560</b>	<b>3.9147</b>		<b>1,995.6147</b>	<b>1,995.6147</b>	<b>0.6454</b>		<b>2,011.7503</b>

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**3.4 Grading - 2023**

**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	lb/day										lb/day					
Hauling	0.6331	19.4957	6.4792	0.0919	2.2514	0.0383	2.2896	0.6169	0.0366	0.6536		9,858.4820	9,858.4820	0.4618		9,870.0260
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
Worker	0.0298	0.0187	0.1937	6.8000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.6000e-004	0.0222		67.5878	67.5878	1.3200e-003		67.6209
<b>Total</b>	<b>0.6629</b>	<b>19.5145</b>	<b>6.6728</b>	<b>0.0926</b>	<b>2.3335</b>	<b>0.0388</b>	<b>2.3723</b>	<b>0.6387</b>	<b>0.0371</b>	<b>0.6758</b>		<b>9,926.0698</b>	<b>9,926.0698</b>	<b>0.4631</b>		<b>9,937.6469</b>

**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	lb/day										lb/day					
Fugitive Dust					2.8951	0.0000	2.8951	1.5114	0.0000	1.5114			0.0000			0.0000
Off-Road	1.3330	14.4676	8.7038	0.0206		0.6044	0.6044		0.5560	0.5560	0.0000	1,995.6147	1,995.6147	0.6454		2,011.7503
<b>Total</b>	<b>1.3330</b>	<b>14.4676</b>	<b>8.7038</b>	<b>0.0206</b>	<b>2.8951</b>	<b>0.6044</b>	<b>3.4994</b>	<b>1.5114</b>	<b>0.5560</b>	<b>2.0674</b>	<b>0.0000</b>	<b>1,995.6147</b>	<b>1,995.6147</b>	<b>0.6454</b>		<b>2,011.7503</b>

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Winter

**3.4 Grading - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.6331	19.4957	6.4792	0.0919	2.2514	0.0383	2.2896	0.6169	0.0366	0.6536		9,858.4820	9,858.4820	0.4618		9,870.0260
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
Worker	0.0298	0.0187	0.1937	6.8000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.6000e-004	0.0222		67.5878	67.5878	1.3200e-003		67.6209
<b>Total</b>	<b>0.6629</b>	<b>19.5145</b>	<b>6.6728</b>	<b>0.0926</b>	<b>2.3335</b>	<b>0.0388</b>	<b>2.3723</b>	<b>0.6387</b>	<b>0.0371</b>	<b>0.6758</b>		<b>9,926.0698</b>	<b>9,926.0698</b>	<b>0.4631</b>		<b>9,937.6469</b>

**3.5 Utility Trenching - 2023**

**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	lb/day										lb/day					
Hauling					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
Worker					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
<b>Total</b>					<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>			<b>0.0000</b>

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Winter

**3.5 Utility Trenching - 2023**

**Mitigated Construction Off-Site**

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

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003		1,709.9926	1,709.9926	0.5420		1,723.5414
Paving	0.2777					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1579</b>	<b>8.6098</b>	<b>11.6840</b>	<b>0.0179</b>		<b>0.4338</b>	<b>0.4338</b>		<b>0.4003</b>	<b>0.4003</b>		<b>1,709.9926</b>	<b>1,709.9926</b>	<b>0.5420</b>		<b>1,723.5414</b>



Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Winter

**3.6 Paving - 2023**

**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	lb/day										lb/day					
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
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
Worker	0.0447	0.0281	0.2905	1.0200e-003	0.1232	7.4000e-004	0.1240	0.0327	6.8000e-004	0.0334		101.3817	101.3817	1.9800e-003		101.4313
<b>Total</b>	<b>0.0447</b>	<b>0.0281</b>	<b>0.2905</b>	<b>1.0200e-003</b>	<b>0.1232</b>	<b>7.4000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>6.8000e-004</b>	<b>0.0334</b>		<b>101.3817</b>	<b>101.3817</b>	<b>1.9800e-003</b>		<b>101.4313</b>

**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	lb/day										lb/day					
Off-Road	0.8802	8.6098	11.6840	0.0179		0.4338	0.4338		0.4003	0.4003	0.0000	1,709.9926	1,709.9926	0.5420		1,723.5414
Paving	0.2777					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.1579</b>	<b>8.6098</b>	<b>11.6840</b>	<b>0.0179</b>		<b>0.4338</b>	<b>0.4338</b>		<b>0.4003</b>	<b>0.4003</b>	<b>0.0000</b>	<b>1,709.9926</b>	<b>1,709.9926</b>	<b>0.5420</b>		<b>1,723.5414</b>

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Winter

**3.6 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0447	0.0281	0.2905	1.0200e-003	0.1232	7.4000e-004	0.1240	0.0327	6.8000e-004	0.0334		101.3817	101.3817	1.9800e-003		101.4313
<b>Total</b>	<b>0.0447</b>	<b>0.0281</b>	<b>0.2905</b>	<b>1.0200e-003</b>	<b>0.1232</b>	<b>7.4000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>6.8000e-004</b>	<b>0.0334</b>		<b>101.3817</b>	<b>101.3817</b>	<b>1.9800e-003</b>		<b>101.4313</b>

**3.7 Building Construction 1 - 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	lb/day										lb/day					
Off-Road	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880		2,289.5233	2,289.5233	0.4330		2,300.3479
<b>Total</b>	<b>1.7136</b>	<b>13.6239</b>	<b>14.2145</b>	<b>0.0250</b>		<b>0.6136</b>	<b>0.6136</b>		<b>0.5880</b>	<b>0.5880</b>		<b>2,289.5233</b>	<b>2,289.5233</b>	<b>0.4330</b>		<b>2,300.3479</b>

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Winter

**3.7 Building Construction 1 - 2023**

**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	lb/day										lb/day					
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
Vendor	0.0207	0.6845	0.2104	2.3000e-003	0.0609	8.1000e-004	0.0617	0.0175	7.7000e-004	0.0183		243.9594	243.9594	0.0107		244.2272
Worker	0.0685	0.0430	0.4455	1.5600e-003	0.1889	1.1400e-003	0.1901	0.0501	1.0500e-003	0.0512		155.4520	155.4520	3.0400e-003		155.5280
<b>Total</b>	<b>0.0892</b>	<b>0.7275</b>	<b>0.6559</b>	<b>3.8600e-003</b>	<b>0.2499</b>	<b>1.9500e-003</b>	<b>0.2518</b>	<b>0.0677</b>	<b>1.8200e-003</b>	<b>0.0695</b>		<b>399.4114</b>	<b>399.4114</b>	<b>0.0138</b>		<b>399.7552</b>

**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	lb/day										lb/day					
Off-Road	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880	0.0000	2,289.5233	2,289.5233	0.4330		2,300.3479
<b>Total</b>	<b>1.7136</b>	<b>13.6239</b>	<b>14.2145</b>	<b>0.0250</b>		<b>0.6136</b>	<b>0.6136</b>		<b>0.5880</b>	<b>0.5880</b>	<b>0.0000</b>	<b>2,289.5233</b>	<b>2,289.5233</b>	<b>0.4330</b>		<b>2,300.3479</b>

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Winter

**3.7 Building Construction 1 - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	0.0207	0.6845	0.2104	2.3000e-003	0.0609	8.1000e-004	0.0617	0.0175	7.7000e-004	0.0183		243.9594	243.9594	0.0107		244.2272
Worker	0.0685	0.0430	0.4455	1.5600e-003	0.1889	1.1400e-003	0.1901	0.0501	1.0500e-003	0.0512		155.4520	155.4520	3.0400e-003		155.5280
<b>Total</b>	<b>0.0892</b>	<b>0.7275</b>	<b>0.6559</b>	<b>3.8600e-003</b>	<b>0.2499</b>	<b>1.9500e-003</b>	<b>0.2518</b>	<b>0.0677</b>	<b>1.8200e-003</b>	<b>0.0695</b>		<b>399.4114</b>	<b>399.4114</b>	<b>0.0138</b>		<b>399.7552</b>

**3.8 Building Construction 2 - 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	lb/day										lb/day					
Off-Road	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880		2,289.5233	2,289.5233	0.4330		2,300.3479
<b>Total</b>	<b>1.7136</b>	<b>13.6239</b>	<b>14.2145</b>	<b>0.0250</b>		<b>0.6136</b>	<b>0.6136</b>		<b>0.5880</b>	<b>0.5880</b>		<b>2,289.5233</b>	<b>2,289.5233</b>	<b>0.4330</b>		<b>2,300.3479</b>

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**3.8 Building Construction 2 - 2023**

**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	lb/day										lb/day					
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
Vendor	0.0207	0.6845	0.2104	2.3000e-003	0.0609	8.1000e-004	0.0617	0.0175	7.7000e-004	0.0183		243.9594	243.9594	0.0107		244.2272
Worker	0.0685	0.0430	0.4455	1.5600e-003	0.1889	1.1400e-003	0.1901	0.0501	1.0500e-003	0.0512		155.4520	155.4520	3.0400e-003		155.5280
<b>Total</b>	<b>0.0892</b>	<b>0.7275</b>	<b>0.6559</b>	<b>3.8600e-003</b>	<b>0.2499</b>	<b>1.9500e-003</b>	<b>0.2518</b>	<b>0.0677</b>	<b>1.8200e-003</b>	<b>0.0695</b>		<b>399.4114</b>	<b>399.4114</b>	<b>0.0138</b>		<b>399.7552</b>

**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	lb/day										lb/day					
Off-Road	1.7136	13.6239	14.2145	0.0250		0.6136	0.6136		0.5880	0.5880	0.0000	2,289.5233	2,289.5233	0.4330		2,300.3479
<b>Total</b>	<b>1.7136</b>	<b>13.6239</b>	<b>14.2145</b>	<b>0.0250</b>		<b>0.6136</b>	<b>0.6136</b>		<b>0.5880</b>	<b>0.5880</b>	<b>0.0000</b>	<b>2,289.5233</b>	<b>2,289.5233</b>	<b>0.4330</b>		<b>2,300.3479</b>

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Winter

**3.8 Building Construction 2 - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
Vendor	0.0207	0.6845	0.2104	2.3000e-003	0.0609	8.1000e-004	0.0617	0.0175	7.7000e-004	0.0183		243.9594	243.9594	0.0107		244.2272
Worker	0.0685	0.0430	0.4455	1.5600e-003	0.1889	1.1400e-003	0.1901	0.0501	1.0500e-003	0.0512		155.4520	155.4520	3.0400e-003		155.5280
<b>Total</b>	<b>0.0892</b>	<b>0.7275</b>	<b>0.6559</b>	<b>3.8600e-003</b>	<b>0.2499</b>	<b>1.9500e-003</b>	<b>0.2518</b>	<b>0.0677</b>	<b>1.8200e-003</b>	<b>0.0695</b>		<b>399.4114</b>	<b>399.4114</b>	<b>0.0138</b>		<b>399.7552</b>

**3.9 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	lb/day										lb/day					
Archit. Coating	13.1402					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>13.3319</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Winter

**3.9 Architectural Coating - 2023**

**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	lb/day										lb/day					
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
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
Worker	0.0149	9.3500e-003	0.0968	3.4000e-004	0.0411	2.5000e-004	0.0413	0.0109	2.3000e-004	0.0111		33.7939	33.7939	6.6000e-004		33.8104
<b>Total</b>	<b>0.0149</b>	<b>9.3500e-003</b>	<b>0.0968</b>	<b>3.4000e-004</b>	<b>0.0411</b>	<b>2.5000e-004</b>	<b>0.0413</b>	<b>0.0109</b>	<b>2.3000e-004</b>	<b>0.0111</b>		<b>33.7939</b>	<b>33.7939</b>	<b>6.6000e-004</b>		<b>33.8104</b>

**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	lb/day										lb/day					
Archit. Coating	13.1402					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>13.3319</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Winter

**3.9 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
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
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
Worker	0.0149	9.3500e-003	0.0968	3.4000e-004	0.0411	2.5000e-004	0.0413	0.0109	2.3000e-004	0.0111		33.7939	33.7939	6.6000e-004		33.8104
<b>Total</b>	<b>0.0149</b>	<b>9.3500e-003</b>	<b>0.0968</b>	<b>3.4000e-004</b>	<b>0.0411</b>	<b>2.5000e-004</b>	<b>0.0413</b>	<b>0.0109</b>	<b>2.3000e-004</b>	<b>0.0111</b>		<b>33.7939</b>	<b>33.7939</b>	<b>6.6000e-004</b>		<b>33.8104</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**



Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Winter

	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	lb/day										lb/day					
Mitigated	0.0537	0.2429	0.5791	1.9700e-003	0.1858	1.6600e-003	0.1874	0.0497	1.5500e-003	0.0512		199.4920	199.4920	7.5400e-003		199.6806
Unmitigated	0.0537	0.2429	0.5791	1.9700e-003	0.1858	1.6600e-003	0.1874	0.0497	1.5500e-003	0.0512		199.4920	199.4920	7.5400e-003		199.6806

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government Office Building	51.00	51.00	51.00	87,463	87,463
Parking Lot	0.00	0.00	0.00		
Total	51.00	51.00	51.00	87,463	87,463

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Government Office Building	9.50	7.30	7.30	33.00	62.00	5.00	50	34	16
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Government Office Building	0.580272	0.038274	0.193741	0.109917	0.015100	0.005324	0.018491	0.026678	0.002649	0.002134	0.005793	0.000896	0.000732
Parking Lot	0.580272	0.038274	0.193741	0.109917	0.015100	0.005324	0.018491	0.026678	0.002649	0.002134	0.005793	0.000896	0.000732

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Category	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	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Winter

**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	lb/day										lb/day					
Government Office Building	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
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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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	lb/day										lb/day					
Government Office Building	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
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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Winter

	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	lb/day										lb/day					
Mitigated	0.2831	5.0000e-005	5.7900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0124	0.0124	3.0000e-005		0.0132
Unmitigated	0.2831	5.0000e-005	5.7900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0124	0.0124	3.0000e-005		0.0132

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	lb/day										lb/day					
Architectural Coating	0.0360					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2466					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.3000e-004	5.0000e-005	5.7900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0124	0.0124	3.0000e-005		0.0132
<b>Total</b>	<b>0.2831</b>	<b>5.0000e-005</b>	<b>5.7900e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0124</b>	<b>0.0124</b>	<b>3.0000e-005</b>		<b>0.0132</b>

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Winter

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0360					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2466					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.3000e-004	5.0000e-005	5.7900e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0124	0.0124	3.0000e-005		0.0132
<b>Total</b>	<b>0.2831</b>	<b>5.0000e-005</b>	<b>5.7900e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0124</b>	<b>0.0124</b>	<b>3.0000e-005</b>		<b>0.0132</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

Santa Rosa Fire Station 5 - Bay Area AQMD Air District, Winter

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	24	250	268	0.73	Diesel

**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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**10.1 Stationary Sources**

**Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (175 - 300 HP)	10.5554	29.5018	26.9139	0.0507		1.5527	1.5527		1.5527	1.5527		5,399.7548	5,399.7548	0.7571		5,418.6810
<b>Total</b>	<b>10.5554</b>	<b>29.5018</b>	<b>26.9139</b>	<b>0.0507</b>		<b>1.5527</b>	<b>1.5527</b>		<b>1.5527</b>	<b>1.5527</b>		<b>5,399.7548</b>	<b>5,399.7548</b>	<b>0.7571</b>		<b>5,418.6810</b>

**11.0 Vegetation**

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