

## **APPENDIX H**

# **AIR QUALITY/GHG EMISSIONS DATA**



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## San Bruno Recreation Center - Bay Area AQMD Air District, Annual

**San Bruno Recreation Center**  
**Bay Area AQMD Air District, Annual**

**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Library	47.00	1000sqft	3.60	47,000.00	0
Parking Lot	160.00	Space	1.50	64,000.00	0
Recreational Swimming Pool	7.30	1000sqft	0.50	7,300.00	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>	5			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	328.8	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - CO2 intensity factor based on 5-year average (PG&E, 2015)

Land Use - Project would develop a Recreation Center, however Library was chosen as the closest representative land use type

Construction Phase - Construction of the proposed project would take 20 to 24 months

Demolition - The proposed project would include the demolition of the existing approximately 30,700-square-foot Veterans Memorial building

Vehicle Trips - Trip generation rate based on the Draft San Bruno Community Center - Transportation Impact Analysis

Mobile Land Use Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps - Emergency back up generator. Typical emergency generator testing is limited to less than 60 minutes per month.

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	230.00	300.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	10.00	30.00
tblLandUse	LotAcreage	1.08	3.60
tblLandUse	LotAcreage	1.44	1.50
tblLandUse	LotAcreage	0.17	0.50
tblProjectCharacteristics	CO2IntensityFactor	641.35	328.8
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	50.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.03
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	46.55	9.99
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	SU_TR	25.49	9.99
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	WD_TR	56.24	9.99
tblVehicleTrips	WD_TR	33.82	0.00

## 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	1-4-2021	4-3-2021	1.2078	1.2078
2	4-4-2021	7-3-2021	0.7261	0.7261
3	7-4-2021	10-3-2021	0.7101	0.7101
4	10-4-2021	1-3-2022	0.7095	0.7095
5	1-4-2022	4-3-2022	0.6273	0.6273
6	4-4-2022	7-3-2022	0.5837	0.5837
7	7-4-2022	9-30-2022	0.3852	0.3852
		Highest	1.2078	1.2078

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	0.2137	2.0000e-005	1.9700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8300e-003	3.8300e-003	1.0000e-005	0.0000	4.0800e-003
Energy	6.2700e-003	0.0570	0.0479	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	118.4091	118.4091	6.1600e-003	2.1700e-003	119.2085
Mobile	0.1055	0.4928	1.0545	3.5200e-003	0.2962	3.2400e-003	0.2994	0.0795	3.0300e-003	0.0825	0.0000	323.0548	323.0548	0.0129	0.0000	323.3768
Stationary	4.9000e-004	1.6100e-003	1.7900e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2285	0.2285	3.0000e-005	0.0000	0.2293
Waste						0.0000	0.0000		0.0000	0.0000	17.2319	0.0000	17.2319	1.0184	0.0000	42.6913
Water						0.0000	0.0000		0.0000	0.0000	0.6035	2.8740	3.4775	0.0622	1.5200e-003	5.4853
<b>Total</b>	<b>0.3260</b>	<b>0.5514</b>	<b>1.1062</b>	<b>3.8600e-003</b>	<b>0.2962</b>	<b>7.6500e-003</b>	<b>0.3038</b>	<b>0.0795</b>	<b>7.4400e-003</b>	<b>0.0869</b>	<b>17.8354</b>	<b>444.5702</b>	<b>462.4056</b>	<b>1.0997</b>	<b>3.6900e-003</b>	<b>490.9953</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	0.2137	2.0000e-005	1.9700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8300e-003	3.8300e-003	1.0000e-005	0.0000	4.0800e-003
Energy	6.2700e-003	0.0570	0.0479	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	118.4091	118.4091	6.1600e-003	2.1700e-003	119.2085
Mobile	0.1019	0.4666	0.9722	3.1400e-003	0.2612	2.9200e-003	0.2641	0.0701	2.7300e-003	0.0729	0.0000	288.7057	288.7057	0.0119	0.0000	289.0038
Stationary	4.9000e-004	1.6100e-003	1.7900e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2285	0.2285	3.0000e-005	0.0000	0.2293
Waste						0.0000	0.0000		0.0000	0.0000	17.2319	0.0000	17.2319	1.0184	0.0000	42.6913
Water						0.0000	0.0000		0.0000	0.0000	0.6035	2.8740	3.4775	0.0622	1.5200e-003	5.4853
<b>Total</b>	<b>0.3224</b>	<b>0.5252</b>	<b>1.0239</b>	<b>3.4800e-003</b>	<b>0.2612</b>	<b>7.3300e-003</b>	<b>0.2686</b>	<b>0.0701</b>	<b>7.1400e-003</b>	<b>0.0773</b>	<b>17.8354</b>	<b>410.2211</b>	<b>428.0565</b>	<b>1.0987</b>	<b>3.6900e-003</b>	<b>456.6222</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>1.10</b>	<b>4.75</b>	<b>7.44</b>	<b>9.84</b>	<b>11.80</b>	<b>4.18</b>	<b>11.61</b>	<b>11.80</b>	<b>4.03</b>	<b>11.13</b>	<b>0.00</b>	<b>7.73</b>	<b>7.43</b>	<b>0.09</b>	<b>0.00</b>	<b>7.00</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	1/4/2021	2/12/2021	5	30	
2	Site Preparation	Site Preparation	2/15/2021	3/26/2021	5	30	
3	Grading	Grading	3/29/2021	4/23/2021	5	20	
4	Building Construction	Building Construction	4/26/2021	6/17/2022	5	300	
5	Paving	Paving	6/20/2022	7/29/2022	5	30	
6	Architectural Coating	Architectural Coating	8/1/2022	9/9/2022	5	30	

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

**Acres of Grading (Grading Phase): 10**

**Acres of Paving: 1.5**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 70,500; Non-Residential Outdoor: 23,500; Striped Parking Area: 3,840 (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	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

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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	6	15.00	0.00	140.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	50.00	19.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0151	0.0000	0.0151	2.2900e-003	0.0000	2.2900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233		0.0216	0.0216	0.0000	51.0012	51.0012	0.0144	0.0000	51.3601
<b>Total</b>	<b>0.0475</b>	<b>0.4716</b>	<b>0.3235</b>	<b>5.8000e-004</b>	<b>0.0151</b>	<b>0.0233</b>	<b>0.0384</b>	<b>2.2900e-003</b>	<b>0.0216</b>	<b>0.0239</b>	<b>0.0000</b>	<b>51.0012</b>	<b>51.0012</b>	<b>0.0144</b>	<b>0.0000</b>	<b>51.3601</b>

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**3.2 Demolition - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.5000e-004	0.0189	4.0300e-003	5.0000e-005	1.1800e-003	6.0000e-005	1.2400e-003	3.3000e-004	6.0000e-005	3.8000e-004	0.0000	5.2958	5.2958	2.7000e-004	0.0000	5.3026
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	4.8000e-004	5.0500e-003	2.0000e-005	1.7800e-003	1.0000e-005	1.7900e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.5030	1.5030	3.0000e-005	0.0000	1.5038
<b>Total</b>	<b>1.2400e-003</b>	<b>0.0194</b>	<b>9.0800e-003</b>	<b>7.0000e-005</b>	<b>2.9600e-003</b>	<b>7.0000e-005</b>	<b>3.0300e-003</b>	<b>8.0000e-004</b>	<b>7.0000e-005</b>	<b>8.6000e-004</b>	<b>0.0000</b>	<b>6.7988</b>	<b>6.7988</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>6.8064</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					0.0151	0.0000	0.0151	2.2900e-003	0.0000	2.2900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233		0.0216	0.0216	0.0000	51.0011	51.0011	0.0144	0.0000	51.3600
<b>Total</b>	<b>0.0475</b>	<b>0.4716</b>	<b>0.3235</b>	<b>5.8000e-004</b>	<b>0.0151</b>	<b>0.0233</b>	<b>0.0384</b>	<b>2.2900e-003</b>	<b>0.0216</b>	<b>0.0239</b>	<b>0.0000</b>	<b>51.0011</b>	<b>51.0011</b>	<b>0.0144</b>	<b>0.0000</b>	<b>51.3600</b>

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**3.2 Demolition - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.5000e-004	0.0189	4.0300e-003	5.0000e-005	1.1800e-003	6.0000e-005	1.2400e-003	3.3000e-004	6.0000e-005	3.8000e-004	0.0000	5.2958	5.2958	2.7000e-004	0.0000	5.3026
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	4.8000e-004	5.0500e-003	2.0000e-005	1.7800e-003	1.0000e-005	1.7900e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.5030	1.5030	3.0000e-005	0.0000	1.5038
<b>Total</b>	<b>1.2400e-003</b>	<b>0.0194</b>	<b>9.0800e-003</b>	<b>7.0000e-005</b>	<b>2.9600e-003</b>	<b>7.0000e-005</b>	<b>3.0300e-003</b>	<b>8.0000e-004</b>	<b>7.0000e-005</b>	<b>8.6000e-004</b>	<b>0.0000</b>	<b>6.7988</b>	<b>6.7988</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>6.8064</b>

**3.3 Site Preparation - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2710	0.0000	0.2710	0.1490	0.0000	0.1490	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0583	0.6075	0.3173	5.7000e-004		0.0307	0.0307		0.0282	0.0282	0.0000	50.1536	50.1536	0.0162	0.0000	50.5591
<b>Total</b>	<b>0.0583</b>	<b>0.6075</b>	<b>0.3173</b>	<b>5.7000e-004</b>	<b>0.2710</b>	<b>0.0307</b>	<b>0.3017</b>	<b>0.1490</b>	<b>0.0282</b>	<b>0.1772</b>	<b>0.0000</b>	<b>50.1536</b>	<b>50.1536</b>	<b>0.0162</b>	<b>0.0000</b>	<b>50.5591</b>

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**3.3 Site Preparation - 2021**

**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	8.3000e-004	5.7000e-004	6.0600e-003	2.0000e-005	2.1300e-003	1.0000e-005	2.1500e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.8036	1.8036	4.0000e-005	0.0000	1.8046
<b>Total</b>	<b>8.3000e-004</b>	<b>5.7000e-004</b>	<b>6.0600e-003</b>	<b>2.0000e-005</b>	<b>2.1300e-003</b>	<b>1.0000e-005</b>	<b>2.1500e-003</b>	<b>5.7000e-004</b>	<b>1.0000e-005</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>1.8036</b>	<b>1.8036</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.8046</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					0.2710	0.0000	0.2710	0.1490	0.0000	0.1490	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0583	0.6075	0.3173	5.7000e-004		0.0307	0.0307		0.0282	0.0282	0.0000	50.1535	50.1535	0.0162	0.0000	50.5590
<b>Total</b>	<b>0.0583</b>	<b>0.6075</b>	<b>0.3173</b>	<b>5.7000e-004</b>	<b>0.2710</b>	<b>0.0307</b>	<b>0.3017</b>	<b>0.1490</b>	<b>0.0282</b>	<b>0.1772</b>	<b>0.0000</b>	<b>50.1535</b>	<b>50.1535</b>	<b>0.0162</b>	<b>0.0000</b>	<b>50.5590</b>

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**3.3 Site Preparation - 2021**

**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	8.3000e-004	5.7000e-004	6.0600e-003	2.0000e-005	2.1300e-003	1.0000e-005	2.1500e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.8036	1.8036	4.0000e-005	0.0000	1.8046
<b>Total</b>	<b>8.3000e-004</b>	<b>5.7000e-004</b>	<b>6.0600e-003</b>	<b>2.0000e-005</b>	<b>2.1300e-003</b>	<b>1.0000e-005</b>	<b>2.1500e-003</b>	<b>5.7000e-004</b>	<b>1.0000e-005</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>1.8036</b>	<b>1.8036</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.8046</b>

**3.4 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0229	0.2474	0.1586	3.0000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	26.0537	26.0537	8.4300e-003	0.0000	26.2644
<b>Total</b>	<b>0.0229</b>	<b>0.2474</b>	<b>0.1586</b>	<b>3.0000e-004</b>	<b>0.0655</b>	<b>0.0116</b>	<b>0.0771</b>	<b>0.0337</b>	<b>0.0107</b>	<b>0.0443</b>	<b>0.0000</b>	<b>26.0537</b>	<b>26.0537</b>	<b>8.4300e-003</b>	<b>0.0000</b>	<b>26.2644</b>

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**3.4 Grading - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.2000e-004	3.3600e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0020	1.0020	2.0000e-005	0.0000	1.0026
<b>Total</b>	<b>4.6000e-004</b>	<b>3.2000e-004</b>	<b>3.3600e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.0020</b>	<b>1.0020</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.0026</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					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0229	0.2474	0.1586	3.0000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	26.0537	26.0537	8.4300e-003	0.0000	26.2643
<b>Total</b>	<b>0.0229</b>	<b>0.2474</b>	<b>0.1586</b>	<b>3.0000e-004</b>	<b>0.0655</b>	<b>0.0116</b>	<b>0.0771</b>	<b>0.0337</b>	<b>0.0107</b>	<b>0.0443</b>	<b>0.0000</b>	<b>26.0537</b>	<b>26.0537</b>	<b>8.4300e-003</b>	<b>0.0000</b>	<b>26.2643</b>

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**3.4 Grading - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.2000e-004	3.3600e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0020	1.0020	2.0000e-005	0.0000	1.0026
<b>Total</b>	<b>4.6000e-004</b>	<b>3.2000e-004</b>	<b>3.3600e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.0020</b>	<b>1.0020</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.0026</b>

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1711	1.5689	1.4918	2.4200e-003		0.0863	0.0863		0.0811	0.0811	0.0000	208.4736	208.4736	0.0503	0.0000	209.7309
<b>Total</b>	<b>0.1711</b>	<b>1.5689</b>	<b>1.4918</b>	<b>2.4200e-003</b>		<b>0.0863</b>	<b>0.0863</b>		<b>0.0811</b>	<b>0.0811</b>	<b>0.0000</b>	<b>208.4736</b>	<b>208.4736</b>	<b>0.0503</b>	<b>0.0000</b>	<b>209.7309</b>

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**3.5 Building Construction - 2021**

**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	5.4300e-003	0.1786	0.0446	4.6000e-004	0.0112	3.9000e-004	0.0116	3.2400e-003	3.7000e-004	3.6100e-003	0.0000	44.3478	44.3478	2.1800e-003	0.0000	44.4023
Worker	0.0138	9.5300e-003	0.1009	3.3000e-004	0.0356	2.3000e-004	0.0358	9.4600e-003	2.1000e-004	9.6700e-003	0.0000	30.0596	30.0596	6.7000e-004	0.0000	30.0764
<b>Total</b>	<b>0.0192</b>	<b>0.1881</b>	<b>0.1455</b>	<b>7.9000e-004</b>	<b>0.0468</b>	<b>6.2000e-004</b>	<b>0.0474</b>	<b>0.0127</b>	<b>5.8000e-004</b>	<b>0.0133</b>	<b>0.0000</b>	<b>74.4074</b>	<b>74.4074</b>	<b>2.8500e-003</b>	<b>0.0000</b>	<b>74.4787</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	0.1711	1.5689	1.4918	2.4200e-003		0.0863	0.0863		0.0811	0.0811	0.0000	208.4733	208.4733	0.0503	0.0000	209.7307
<b>Total</b>	<b>0.1711</b>	<b>1.5689</b>	<b>1.4918</b>	<b>2.4200e-003</b>		<b>0.0863</b>	<b>0.0863</b>		<b>0.0811</b>	<b>0.0811</b>	<b>0.0000</b>	<b>208.4733</b>	<b>208.4733</b>	<b>0.0503</b>	<b>0.0000</b>	<b>209.7307</b>

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**3.5 Building Construction - 2021**

**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	5.4300e-003	0.1786	0.0446	4.6000e-004	0.0112	3.9000e-004	0.0116	3.2400e-003	3.7000e-004	3.6100e-003	0.0000	44.3478	44.3478	2.1800e-003	0.0000	44.4023
Worker	0.0138	9.5300e-003	0.1009	3.3000e-004	0.0356	2.3000e-004	0.0358	9.4600e-003	2.1000e-004	9.6700e-003	0.0000	30.0596	30.0596	6.7000e-004	0.0000	30.0764
<b>Total</b>	<b>0.0192</b>	<b>0.1881</b>	<b>0.1455</b>	<b>7.9000e-004</b>	<b>0.0468</b>	<b>6.2000e-004</b>	<b>0.0474</b>	<b>0.0127</b>	<b>5.8000e-004</b>	<b>0.0133</b>	<b>0.0000</b>	<b>74.4074</b>	<b>74.4074</b>	<b>2.8500e-003</b>	<b>0.0000</b>	<b>74.4787</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1024	0.9369	0.9818	1.6200e-003		0.0485	0.0485		0.0457	0.0457	0.0000	139.0352	139.0352	0.0333	0.0000	139.8679
<b>Total</b>	<b>0.1024</b>	<b>0.9369</b>	<b>0.9818</b>	<b>1.6200e-003</b>		<b>0.0485</b>	<b>0.0485</b>		<b>0.0457</b>	<b>0.0457</b>	<b>0.0000</b>	<b>139.0352</b>	<b>139.0352</b>	<b>0.0333</b>	<b>0.0000</b>	<b>139.8679</b>

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**3.5 Building Construction - 2022**

**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	3.3800e-003	0.1128	0.0279	3.0000e-004	7.4800e-003	2.2000e-004	7.7000e-003	2.1600e-003	2.1000e-004	2.3800e-003	0.0000	29.2753	29.2753	1.3900e-003	0.0000	29.3100
Worker	8.5800e-003	5.7000e-003	0.0618	2.1000e-004	0.0237	1.5000e-004	0.0239	6.3100e-003	1.4000e-004	6.4500e-003	0.0000	19.3050	19.3050	4.0000e-004	0.0000	19.3151
<b>Total</b>	<b>0.0120</b>	<b>0.1185</b>	<b>0.0898</b>	<b>5.1000e-004</b>	<b>0.0312</b>	<b>3.7000e-004</b>	<b>0.0316</b>	<b>8.4700e-003</b>	<b>3.5000e-004</b>	<b>8.8300e-003</b>	<b>0.0000</b>	<b>48.5803</b>	<b>48.5803</b>	<b>1.7900e-003</b>	<b>0.0000</b>	<b>48.6251</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	0.1024	0.9369	0.9818	1.6200e-003		0.0485	0.0485		0.0457	0.0457	0.0000	139.0350	139.0350	0.0333	0.0000	139.8677
<b>Total</b>	<b>0.1024</b>	<b>0.9369</b>	<b>0.9818</b>	<b>1.6200e-003</b>		<b>0.0485</b>	<b>0.0485</b>		<b>0.0457</b>	<b>0.0457</b>	<b>0.0000</b>	<b>139.0350</b>	<b>139.0350</b>	<b>0.0333</b>	<b>0.0000</b>	<b>139.8677</b>

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**3.5 Building Construction - 2022**

**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	3.3800e-003	0.1128	0.0279	3.0000e-004	7.4800e-003	2.2000e-004	7.7000e-003	2.1600e-003	2.1000e-004	2.3800e-003	0.0000	29.2753	29.2753	1.3900e-003	0.0000	29.3100
Worker	8.5800e-003	5.7000e-003	0.0618	2.1000e-004	0.0237	1.5000e-004	0.0239	6.3100e-003	1.4000e-004	6.4500e-003	0.0000	19.3050	19.3050	4.0000e-004	0.0000	19.3151
<b>Total</b>	<b>0.0120</b>	<b>0.1185</b>	<b>0.0898</b>	<b>5.1000e-004</b>	<b>0.0312</b>	<b>3.7000e-004</b>	<b>0.0316</b>	<b>8.4700e-003</b>	<b>3.5000e-004</b>	<b>8.8300e-003</b>	<b>0.0000</b>	<b>48.5803</b>	<b>48.5803</b>	<b>1.7900e-003</b>	<b>0.0000</b>	<b>48.6251</b>

**3.6 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0165	0.1669	0.2187	3.4000e-004		8.5200e-003	8.5200e-003		7.8400e-003	7.8400e-003	0.0000	30.0413	30.0413	9.7200e-003	0.0000	30.2842
Paving	1.9700e-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>0.0185</b>	<b>0.1669</b>	<b>0.2187</b>	<b>3.4000e-004</b>		<b>8.5200e-003</b>	<b>8.5200e-003</b>		<b>7.8400e-003</b>	<b>7.8400e-003</b>	<b>0.0000</b>	<b>30.0413</b>	<b>30.0413</b>	<b>9.7200e-003</b>	<b>0.0000</b>	<b>30.2842</b>

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**3.6 Paving - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4000e-004	4.3000e-004	4.6400e-003	2.0000e-005	1.7800e-003	1.0000e-005	1.7900e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.4479	1.4479	3.0000e-005	0.0000	1.4486
<b>Total</b>	<b>6.4000e-004</b>	<b>4.3000e-004</b>	<b>4.6400e-003</b>	<b>2.0000e-005</b>	<b>1.7800e-003</b>	<b>1.0000e-005</b>	<b>1.7900e-003</b>	<b>4.7000e-004</b>	<b>1.0000e-005</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>1.4479</b>	<b>1.4479</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.4486</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	0.0165	0.1669	0.2187	3.4000e-004		8.5200e-003	8.5200e-003		7.8400e-003	7.8400e-003	0.0000	30.0413	30.0413	9.7200e-003	0.0000	30.2842
Paving	1.9700e-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>0.0185</b>	<b>0.1669</b>	<b>0.2187</b>	<b>3.4000e-004</b>		<b>8.5200e-003</b>	<b>8.5200e-003</b>		<b>7.8400e-003</b>	<b>7.8400e-003</b>	<b>0.0000</b>	<b>30.0413</b>	<b>30.0413</b>	<b>9.7200e-003</b>	<b>0.0000</b>	<b>30.2842</b>

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**3.6 Paving - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4000e-004	4.3000e-004	4.6400e-003	2.0000e-005	1.7800e-003	1.0000e-005	1.7900e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.4479	1.4479	3.0000e-005	0.0000	1.4486
<b>Total</b>	<b>6.4000e-004</b>	<b>4.3000e-004</b>	<b>4.6400e-003</b>	<b>2.0000e-005</b>	<b>1.7800e-003</b>	<b>1.0000e-005</b>	<b>1.7900e-003</b>	<b>4.7000e-004</b>	<b>1.0000e-005</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>1.4479</b>	<b>1.4479</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.4486</b>

**3.7 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2584					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0700e-003	0.0211	0.0272	4.0000e-005		1.2300e-003	1.2300e-003		1.2300e-003	1.2300e-003	0.0000	3.8299	3.8299	2.5000e-004	0.0000	3.8361
<b>Total</b>	<b>0.2615</b>	<b>0.0211</b>	<b>0.0272</b>	<b>4.0000e-005</b>		<b>1.2300e-003</b>	<b>1.2300e-003</b>		<b>1.2300e-003</b>	<b>1.2300e-003</b>	<b>0.0000</b>	<b>3.8299</b>	<b>3.8299</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>3.8361</b>

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**3.7 Architectural Coating - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.8000e-004	3.0900e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9653	0.9653	2.0000e-005	0.0000	0.9658
<b>Total</b>	<b>4.3000e-004</b>	<b>2.8000e-004</b>	<b>3.0900e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.9653</b>	<b>0.9653</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.9658</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	0.2584					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0700e-003	0.0211	0.0272	4.0000e-005		1.2300e-003	1.2300e-003		1.2300e-003	1.2300e-003	0.0000	3.8299	3.8299	2.5000e-004	0.0000	3.8361
<b>Total</b>	<b>0.2615</b>	<b>0.0211</b>	<b>0.0272</b>	<b>4.0000e-005</b>		<b>1.2300e-003</b>	<b>1.2300e-003</b>		<b>1.2300e-003</b>	<b>1.2300e-003</b>	<b>0.0000</b>	<b>3.8299</b>	<b>3.8299</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>3.8361</b>

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**3.7 Architectural Coating - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.8000e-004	3.0900e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9653	0.9653	2.0000e-005	0.0000	0.9658
<b>Total</b>	<b>4.3000e-004</b>	<b>2.8000e-004</b>	<b>3.0900e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.9653</b>	<b>0.9653</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.9658</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Increase Diversity

Improve Walkability Design

Improve Destination Accessibility

Improve Pedestrian Network

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1019	0.4666	0.9722	3.1400e-003	0.2612	2.9200e-003	0.2641	0.0701	2.7300e-003	0.0729	0.0000	288.7057	288.7057	0.0119	0.0000	289.0038
Unmitigated	0.1055	0.4928	1.0545	3.5200e-003	0.2962	3.2400e-003	0.2994	0.0795	3.0300e-003	0.0825	0.0000	323.0548	323.0548	0.0129	0.0000	323.3768

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Library	469.53	469.53	469.53	795,786	701,883
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Total	469.53	469.53	469.53	795,786	701,883

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
Library	9.50	7.30	7.30	52.00	43.00	5.00	44	44	12
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Library	0.576985	0.039376	0.193723	0.112069	0.016317	0.005358	0.017943	0.025814	0.002614	0.002274	0.005874	0.000887	0.000768
Parking Lot	0.576985	0.039376	0.193723	0.112069	0.016317	0.005358	0.017943	0.025814	0.002614	0.002274	0.005874	0.000887	0.000768
Recreational Swimming Pool	0.576985	0.039376	0.193723	0.112069	0.016317	0.005358	0.017943	0.025814	0.002614	0.002274	0.005874	0.000887	0.000768

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	56.3336	56.3336	4.9700e-003	1.0300e-003	56.7642
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	56.3336	56.3336	4.9700e-003	1.0300e-003	56.7642
NaturalGas Mitigated	6.2700e-003	0.0570	0.0479	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	62.0755	62.0755	1.1900e-003	1.1400e-003	62.4443
NaturalGas Unmitigated	6.2700e-003	0.0570	0.0479	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	62.0755	62.0755	1.1900e-003	1.1400e-003	62.4443

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Library	1.16325e+006	6.2700e-003	0.0570	0.0479	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	62.0755	62.0755	1.1900e-003	1.1400e-003	62.4443
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>6.2700e-003</b>	<b>0.0570</b>	<b>0.0479</b>	<b>3.4000e-004</b>		<b>4.3300e-003</b>	<b>4.3300e-003</b>		<b>4.3300e-003</b>	<b>4.3300e-003</b>	<b>0.0000</b>	<b>62.0755</b>	<b>62.0755</b>	<b>1.1900e-003</b>	<b>1.1400e-003</b>	<b>62.4443</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	tons/yr										MT/yr					
Library	1.16325e+006	6.2700e-003	0.0570	0.0479	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	62.0755	62.0755	1.1900e-003	1.1400e-003	62.4443
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>6.2700e-003</b>	<b>0.0570</b>	<b>0.0479</b>	<b>3.4000e-004</b>		<b>4.3300e-003</b>	<b>4.3300e-003</b>		<b>4.3300e-003</b>	<b>4.3300e-003</b>	<b>0.0000</b>	<b>62.0755</b>	<b>62.0755</b>	<b>1.1900e-003</b>	<b>1.1400e-003</b>	<b>62.4443</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Library	355320	52.9928	4.6700e-003	9.7000e-004	53.3979
Parking Lot	22400	3.3408	2.9000e-004	6.0000e-005	3.3663
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>56.3336</b>	<b>4.9600e-003</b>	<b>1.0300e-003</b>	<b>56.7642</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Library	355320	52.9928	4.6700e-003	9.7000e-004	53.3979
Parking Lot	22400	3.3408	2.9000e-004	6.0000e-005	3.3663
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>56.3336</b>	<b>4.9600e-003</b>	<b>1.0300e-003</b>	<b>56.7642</b>

**6.0 Area Detail**

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**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2137	2.0000e-005	1.9700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8300e-003	3.8300e-003	1.0000e-005	0.0000	4.0800e-003
Unmitigated	0.2137	2.0000e-005	1.9700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8300e-003	3.8300e-003	1.0000e-005	0.0000	4.0800e-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	0.0258					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1877					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	1.9700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8300e-003	3.8300e-003	1.0000e-005	0.0000	4.0800e-003
<b>Total</b>	<b>0.2137</b>	<b>2.0000e-005</b>	<b>1.9700e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.8300e-003</b>	<b>3.8300e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>4.0800e-003</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0258					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1877					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	1.9700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8300e-003	3.8300e-003	1.0000e-005	0.0000	4.0800e-003
<b>Total</b>	<b>0.2137</b>	<b>2.0000e-005</b>	<b>1.9700e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.8300e-003</b>	<b>3.8300e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>4.0800e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.4775	0.0622	1.5200e-003	5.4853
Unmitigated	3.4775	0.0622	1.5200e-003	5.4853

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Library	1.47058 / 2.30014	2.8540	0.0481	1.1800e-003	4.4074
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0.431745 / 0.264618	0.6235	0.0141	3.4000e-004	1.0779
<b>Total</b>		<b>3.4775</b>	<b>0.0622</b>	<b>1.5200e-003</b>	<b>5.4853</b>

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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Library	1.47058 / 2.30014	2.8540	0.0481	1.1800e-003	4.4074
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0.431745 / 0.264618	0.6235	0.0141	3.4000e-004	1.0779
<b>Total</b>		<b>3.4775</b>	<b>0.0622</b>	<b>1.5200e-003</b>	<b>5.4853</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	17.2319	1.0184	0.0000	42.6913
Unmitigated	17.2319	1.0184	0.0000	42.6913

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Library	43.28	8.7855	0.5192	0.0000	21.7656
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	41.61	8.4465	0.4992	0.0000	20.9257
<b>Total</b>		<b>17.2319</b>	<b>1.0184</b>	<b>0.0000</b>	<b>42.6913</b>

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**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Library	43.28	8.7855	0.5192	0.0000	21.7656
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	41.61	8.4465	0.4992	0.0000	20.9257
<b>Total</b>		<b>17.2319</b>	<b>1.0184</b>	<b>0.0000</b>	<b>42.6913</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.03	12	50	0.73	Diesel

**Boilers**

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

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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 (50 - 75 HP)	4.9000e-004	1.6100e-003	1.7900e-003	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.2285	0.2285	3.0000e-005	0.0000	0.2293
<b>Total</b>	<b>4.9000e-004</b>	<b>1.6100e-003</b>	<b>1.7900e-003</b>	<b>0.0000</b>		<b>7.0000e-005</b>	<b>7.0000e-005</b>		<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.2285</b>	<b>0.2285</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.2293</b>

**11.0 Vegetation**

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## San Bruno Recreation Center - Bay Area AQMD Air District, Summer

**San Bruno Recreation Center**  
**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
Library	47.00	1000sqft	3.60	47,000.00	0
Parking Lot	160.00	Space	1.50	64,000.00	0
Recreational Swimming Pool	7.30	1000sqft	0.50	7,300.00	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>	5			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	328.8	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - CO2 intensity factor based on 5-year average (PG&E, 2015)

Land Use - Project would develop a Recreation Center, however Library was chosen as the closest representative land use type

Construction Phase - Construction of the proposed project would take 20 to 24 months

Demolition - The proposed project would include the demolition of the existing approximately 30,700-square-foot Veterans Memorial building

Vehicle Trips - Trip generation rate based on the Draft San Bruno Community Center - Transportation Impact Analysis

Mobile Land Use Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps - Emergency back up generator. Typical emergency generator testing is limited to less than 60 minutes per month.

## San Bruno Recreation Center - Bay Area AQMD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	230.00	300.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	10.00	30.00
tblLandUse	LotAcreage	1.08	3.60
tblLandUse	LotAcreage	1.44	1.50
tblLandUse	LotAcreage	0.17	0.50
tblProjectCharacteristics	CO2IntensityFactor	641.35	328.8
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	50.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.03
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	46.55	9.99
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	SU_TR	25.49	9.99
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	WD_TR	56.24	9.99
tblVehicleTrips	WD_TR	33.82	0.00

## 2.0 Emissions Summary

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## San Bruno Recreation Center - 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	1.1721	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0469	0.0469	1.2000e-004		0.0500
Energy	0.0344	0.3125	0.2625	1.8700e-003		0.0238	0.0238		0.0238	0.0238		374.9396	374.9396	7.1900e-003	6.8700e-003	377.1676
Mobile	0.6716	2.6398	5.8961	0.0205	1.6907	0.0178	1.7084	0.4523	0.0166	0.4690		2,069.2940	2,069.2940	0.0777		2,071.2355
Stationary	2.4600e-003	8.0300e-003	8.9300e-003	1.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004		1.2593	1.2593	1.8000e-004		1.2637
<b>Total</b>	<b>1.8805</b>	<b>2.9605</b>	<b>6.1894</b>	<b>0.0223</b>	<b>1.6907</b>	<b>0.0420</b>	<b>1.7326</b>	<b>0.4523</b>	<b>0.0408</b>	<b>0.4932</b>		<b>2,445.5397</b>	<b>2,445.5397</b>	<b>0.0852</b>	<b>6.8700e-003</b>	<b>2,449.7168</b>

San Bruno Recreation Center - 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	1.1721	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0469	0.0469	1.2000e-004		0.0500
Energy	0.0344	0.3125	0.2625	1.8700e-003		0.0238	0.0238		0.0238	0.0238		374.9396	374.9396	7.1900e-003	6.8700e-003	377.1676
Mobile	0.6514	2.5041	5.3858	0.0183	1.4912	0.0160	1.5072	0.3990	0.0150	0.4139		1,848.8650	1,848.8650	0.0716		1,850.6547
Stationary	2.4600e-003	8.0300e-003	8.9300e-003	1.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004		1.2593	1.2593	1.8000e-004		1.2637
<b>Total</b>	<b>1.8603</b>	<b>2.8248</b>	<b>5.6791</b>	<b>0.0201</b>	<b>1.4912</b>	<b>0.0402</b>	<b>1.5314</b>	<b>0.3990</b>	<b>0.0392</b>	<b>0.4381</b>		<b>2,225.1108</b>	<b>2,225.1108</b>	<b>0.0791</b>	<b>6.8700e-003</b>	<b>2,229.1360</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>1.07</b>	<b>4.58</b>	<b>8.25</b>	<b>9.81</b>	<b>11.80</b>	<b>4.22</b>	<b>11.62</b>	<b>11.80</b>	<b>4.09</b>	<b>11.16</b>	<b>0.00</b>	<b>9.01</b>	<b>9.01</b>	<b>7.13</b>	<b>0.00</b>	<b>9.00</b>

**3.0 Construction Detail**

**Construction Phase**

## San Bruno Recreation Center - 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	1/4/2021	2/12/2021	5	30	
2	Site Preparation	Site Preparation	2/15/2021	3/26/2021	5	30	
3	Grading	Grading	3/29/2021	4/23/2021	5	20	
4	Building Construction	Building Construction	4/26/2021	6/17/2022	5	300	
5	Paving	Paving	6/20/2022	7/29/2022	5	30	
6	Architectural Coating	Architectural Coating	8/1/2022	9/9/2022	5	30	

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

**Acres of Grading (Grading Phase): 10**

**Acres of Paving: 1.5**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 70,500; Non-Residential Outdoor: 23,500; Striped Parking Area: 3,840 (Architectural Coating – sqft)**

**OffRoad Equipment**

## San Bruno Recreation Center - 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	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

San Bruno Recreation Center - 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	6	15.00	0.00	140.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	50.00	19.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0073	0.0000	1.0073	0.1525	0.0000	0.1525			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>	<b>1.0073</b>	<b>1.5513</b>	<b>2.5587</b>	<b>0.1525</b>	<b>1.4411</b>	<b>1.5936</b>		<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</b>

San Bruno Recreation Center - Bay Area AQMD Air District, Summer

**3.2 Demolition - 2021**

**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	0.0364	1.2348	0.2603	3.6600e-003	0.0815	3.8700e-003	0.0854	0.0223	3.7000e-003	0.0261		391.9579	391.9579	0.0195		392.4441
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	0.0482	0.0282	0.3685	1.1900e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		118.7939	118.7939	2.6600e-003		118.8603
<b>Total</b>	<b>0.0846</b>	<b>1.2630</b>	<b>0.6288</b>	<b>4.8500e-003</b>	<b>0.2048</b>	<b>4.6500e-003</b>	<b>0.2094</b>	<b>0.0550</b>	<b>4.4100e-003</b>	<b>0.0595</b>		<b>510.7518</b>	<b>510.7518</b>	<b>0.0221</b>		<b>511.3044</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					1.0073	0.0000	1.0073	0.1525	0.0000	0.1525			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>	<b>1.0073</b>	<b>1.5513</b>	<b>2.5587</b>	<b>0.1525</b>	<b>1.4411</b>	<b>1.5936</b>	<b>0.0000</b>	<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</b>

San Bruno Recreation Center - Bay Area AQMD Air District, Summer

**3.2 Demolition - 2021**

**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	0.0364	1.2348	0.2603	3.6600e-003	0.0815	3.8700e-003	0.0854	0.0223	3.7000e-003	0.0261		391.9579	391.9579	0.0195		392.4441
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	0.0482	0.0282	0.3685	1.1900e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		118.7939	118.7939	2.6600e-003		118.8603
<b>Total</b>	<b>0.0846</b>	<b>1.2630</b>	<b>0.6288</b>	<b>4.8500e-003</b>	<b>0.2048</b>	<b>4.6500e-003</b>	<b>0.2094</b>	<b>0.0550</b>	<b>4.4100e-003</b>	<b>0.0595</b>		<b>510.7518</b>	<b>510.7518</b>	<b>0.0221</b>		<b>511.3044</b>

**3.3 Site Preparation - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.0445</b>	<b>20.1107</b>	<b>9.9307</b>	<b>1.8809</b>	<b>11.8116</b>		<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

San Bruno Recreation Center - Bay Area AQMD Air District, Summer

**3.3 Site Preparation - 2021**

**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	0.0579	0.0338	0.4421	1.4300e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		142.5527	142.5527	3.1900e-003		142.6324
<b>Total</b>	<b>0.0579</b>	<b>0.0338</b>	<b>0.4421</b>	<b>1.4300e-003</b>	<b>0.1479</b>	<b>9.3000e-004</b>	<b>0.1488</b>	<b>0.0392</b>	<b>8.6000e-004</b>	<b>0.0401</b>		<b>142.5527</b>	<b>142.5527</b>	<b>3.1900e-003</b>		<b>142.6324</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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.0445</b>	<b>20.1107</b>	<b>9.9307</b>	<b>1.8809</b>	<b>11.8116</b>	<b>0.0000</b>	<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

San Bruno Recreation Center - Bay Area AQMD Air District, Summer

**3.3 Site Preparation - 2021**

**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	0.0579	0.0338	0.4421	1.4300e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		142.5527	142.5527	3.1900e-003		142.6324
<b>Total</b>	<b>0.0579</b>	<b>0.0338</b>	<b>0.4421</b>	<b>1.4300e-003</b>	<b>0.1479</b>	<b>9.3000e-004</b>	<b>0.1488</b>	<b>0.0392</b>	<b>8.6000e-004</b>	<b>0.0401</b>		<b>142.5527</b>	<b>142.5527</b>	<b>3.1900e-003</b>		<b>142.6324</b>

**3.4 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
<b>Total</b>	<b>2.2903</b>	<b>24.7367</b>	<b>15.8575</b>	<b>0.0296</b>	<b>6.5523</b>	<b>1.1599</b>	<b>7.7123</b>	<b>3.3675</b>	<b>1.0671</b>	<b>4.4346</b>		<b>2,871.9285</b>	<b>2,871.9285</b>	<b>0.9288</b>		<b>2,895.1495</b>

San Bruno Recreation Center - Bay Area AQMD Air District, Summer

**3.4 Grading - 2021**

**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	0.0482	0.0282	0.3685	1.1900e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		118.7939	118.7939	2.6600e-003		118.8603
<b>Total</b>	<b>0.0482</b>	<b>0.0282</b>	<b>0.3685</b>	<b>1.1900e-003</b>	<b>0.1232</b>	<b>7.8000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.1000e-004</b>	<b>0.0334</b>		<b>118.7939</b>	<b>118.7939</b>	<b>2.6600e-003</b>		<b>118.8603</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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671	0.0000	2,871.9285	2,871.9285	0.9288		2,895,1495
<b>Total</b>	<b>2.2903</b>	<b>24.7367</b>	<b>15.8575</b>	<b>0.0296</b>	<b>6.5523</b>	<b>1.1599</b>	<b>7.7123</b>	<b>3.3675</b>	<b>1.0671</b>	<b>4.4346</b>	<b>0.0000</b>	<b>2,871.9285</b>	<b>2,871.9285</b>	<b>0.9288</b>		<b>2,895,1495</b>

San Bruno Recreation Center - Bay Area AQMD Air District, Summer

**3.4 Grading - 2021**

**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	0.0482	0.0282	0.3685	1.1900e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		118.7939	118.7939	2.6600e-003		118.8603
<b>Total</b>	<b>0.0482</b>	<b>0.0282</b>	<b>0.3685</b>	<b>1.1900e-003</b>	<b>0.1232</b>	<b>7.8000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.1000e-004</b>	<b>0.0334</b>		<b>118.7939</b>	<b>118.7939</b>	<b>2.6600e-003</b>		<b>118.8603</b>

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>		<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>		<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>		<b>2,568.7643</b>

San Bruno Recreation Center - Bay Area AQMD Air District, Summer

**3.5 Building Construction - 2021**

**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	0.0589	1.9635	0.4630	5.1800e-003	0.1286	4.2500e-003	0.1329	0.0370	4.0700e-003	0.0411		549.0212	549.0212	0.0258		549.6654
Worker	0.1608	0.0940	1.2282	3.9700e-003	0.4107	2.5800e-003	0.4133	0.1090	2.3800e-003	0.1113		395.9798	395.9798	8.8500e-003		396.2011
<b>Total</b>	<b>0.2197</b>	<b>2.0574</b>	<b>1.6912</b>	<b>9.1500e-003</b>	<b>0.5394</b>	<b>6.8300e-003</b>	<b>0.5462</b>	<b>0.1460</b>	<b>6.4500e-003</b>	<b>0.1524</b>		<b>945.0010</b>	<b>945.0010</b>	<b>0.0346</b>		<b>945.8665</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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>		<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>	<b>0.0000</b>	<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>		<b>2,568.7643</b>

San Bruno Recreation Center - Bay Area AQMD Air District, Summer

**3.5 Building Construction - 2021**

**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	0.0589	1.9635	0.4630	5.1800e-003	0.1286	4.2500e-003	0.1329	0.0370	4.0700e-003	0.0411		549.0212	549.0212	0.0258		549.6654
Worker	0.1608	0.0940	1.2282	3.9700e-003	0.4107	2.5800e-003	0.4133	0.1090	2.3800e-003	0.1113		395.9798	395.9798	8.8500e-003		396.2011
<b>Total</b>	<b>0.2197</b>	<b>2.0574</b>	<b>1.6912</b>	<b>9.1500e-003</b>	<b>0.5394</b>	<b>6.8300e-003</b>	<b>0.5462</b>	<b>0.1460</b>	<b>6.4500e-003</b>	<b>0.1524</b>		<b>945.0010</b>	<b>945.0010</b>	<b>0.0346</b>		<b>945.8665</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

San Bruno Recreation Center - Bay Area AQMD Air District, Summer

**3.5 Building Construction - 2022**

**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	0.0550	1.8609	0.4354	5.1300e-003	0.1286	3.6900e-003	0.1323	0.0370	3.5300e-003	0.0406		543.6746	543.6746	0.0246		544.2905
Worker	0.1496	0.0843	1.1317	3.8300e-003	0.4107	2.5200e-003	0.4133	0.1090	2.3200e-003	0.1113		381.4477	381.4477	7.9500e-003		381.6464
<b>Total</b>	<b>0.2046</b>	<b>1.9451</b>	<b>1.5671</b>	<b>8.9600e-003</b>	<b>0.5394</b>	<b>6.2100e-003</b>	<b>0.5456</b>	<b>0.1460</b>	<b>5.8500e-003</b>	<b>0.1518</b>		<b>925.1222</b>	<b>925.1222</b>	<b>0.0326</b>		<b>925.9369</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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

San Bruno Recreation Center - Bay Area AQMD Air District, Summer

**3.5 Building Construction - 2022**

**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	0.0550	1.8609	0.4354	5.1300e-003	0.1286	3.6900e-003	0.1323	0.0370	3.5300e-003	0.0406		543.6746	543.6746	0.0246		544.2905
Worker	0.1496	0.0843	1.1317	3.8300e-003	0.4107	2.5200e-003	0.4133	0.1090	2.3200e-003	0.1113		381.4477	381.4477	7.9500e-003		381.6464
<b>Total</b>	<b>0.2046</b>	<b>1.9451</b>	<b>1.5671</b>	<b>8.9600e-003</b>	<b>0.5394</b>	<b>6.2100e-003</b>	<b>0.5456</b>	<b>0.1460</b>	<b>5.8500e-003</b>	<b>0.1518</b>		<b>925.1222</b>	<b>925.1222</b>	<b>0.0326</b>		<b>925.9369</b>

**3.6 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.1310					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.2338</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>		<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>

San Bruno Recreation Center - Bay Area AQMD Air District, Summer

**3.6 Paving - 2022**

**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	0.0449	0.0253	0.3395	1.1500e-003	0.1232	7.6000e-004	0.1240	0.0327	7.0000e-004	0.0334		114.4343	114.4343	2.3800e-003		114.4939
<b>Total</b>	<b>0.0449</b>	<b>0.0253</b>	<b>0.3395</b>	<b>1.1500e-003</b>	<b>0.1232</b>	<b>7.6000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.0000e-004</b>	<b>0.0334</b>		<b>114.4343</b>	<b>114.4343</b>	<b>2.3800e-003</b>		<b>114.4939</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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.1310					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.2338</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>0.0000</b>	<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>

San Bruno Recreation Center - Bay Area AQMD Air District, Summer

**3.6 Paving - 2022**

**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	0.0449	0.0253	0.3395	1.1500e-003	0.1232	7.6000e-004	0.1240	0.0327	7.0000e-004	0.0334		114.4343	114.4343	2.3800e-003		114.4939
<b>Total</b>	<b>0.0449</b>	<b>0.0253</b>	<b>0.3395</b>	<b>1.1500e-003</b>	<b>0.1232</b>	<b>7.6000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.0000e-004</b>	<b>0.0334</b>		<b>114.4343</b>	<b>114.4343</b>	<b>2.3800e-003</b>		<b>114.4939</b>

**3.7 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	17.2283					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>17.4328</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

San Bruno Recreation Center - Bay Area AQMD Air District, Summer

**3.7 Architectural Coating - 2022**

**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	0.0299	0.0169	0.2263	7.7000e-004	0.0822	5.0000e-004	0.0827	0.0218	4.6000e-004	0.0223		76.2895	76.2895	1.5900e-003		76.3293
<b>Total</b>	<b>0.0299</b>	<b>0.0169</b>	<b>0.2263</b>	<b>7.7000e-004</b>	<b>0.0822</b>	<b>5.0000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>4.6000e-004</b>	<b>0.0223</b>		<b>76.2895</b>	<b>76.2895</b>	<b>1.5900e-003</b>		<b>76.3293</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	17.2283					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>17.4328</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

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**3.7 Architectural Coating - 2022**

**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	0.0299	0.0169	0.2263	7.7000e-004	0.0822	5.0000e-004	0.0827	0.0218	4.6000e-004	0.0223		76.2895	76.2895	1.5900e-003		76.3293
<b>Total</b>	<b>0.0299</b>	<b>0.0169</b>	<b>0.2263</b>	<b>7.7000e-004</b>	<b>0.0822</b>	<b>5.0000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>4.6000e-004</b>	<b>0.0223</b>		<b>76.2895</b>	<b>76.2895</b>	<b>1.5900e-003</b>		<b>76.3293</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Increase Diversity

Improve Walkability Design

Improve Destination Accessibility

Improve Pedestrian Network

San Bruno Recreation Center - 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	0.6514	2.5041	5.3858	0.0183	1.4912	0.0160	1.5072	0.3990	0.0150	0.4139		1,848.8650	1,848.8650	0.0716		1,850.6547
Unmitigated	0.6716	2.6398	5.8961	0.0205	1.6907	0.0178	1.7084	0.4523	0.0166	0.4690		2,069.2940	2,069.2940	0.0777		2,071.2355

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Library	469.53	469.53	469.53	795,786	701,883
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Total	469.53	469.53	469.53	795,786	701,883

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
Library	9.50	7.30	7.30	52.00	43.00	5.00	44	44	12
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9

4.4 Fleet Mix

San Bruno Recreation Center - Bay Area AQMD Air District, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Library	0.576985	0.039376	0.193723	0.112069	0.016317	0.005358	0.017943	0.025814	0.002614	0.002274	0.005874	0.000887	0.000768
Parking Lot	0.576985	0.039376	0.193723	0.112069	0.016317	0.005358	0.017943	0.025814	0.002614	0.002274	0.005874	0.000887	0.000768
Recreational Swimming Pool	0.576985	0.039376	0.193723	0.112069	0.016317	0.005358	0.017943	0.025814	0.002614	0.002274	0.005874	0.000887	0.000768

**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	0.0344	0.3125	0.2625	1.8700e-003		0.0238	0.0238		0.0238	0.0238		374.9396	374.9396	7.1900e-003	6.8700e-003	377.1676
NaturalGas Unmitigated	0.0344	0.3125	0.2625	1.8700e-003		0.0238	0.0238		0.0238	0.0238		374.9396	374.9396	7.1900e-003	6.8700e-003	377.1676

San Bruno Recreation Center - 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					
Library	3186.99	0.0344	0.3125	0.2625	1.8700e-003		0.0238	0.0238		0.0238	0.0238		374.9396	374.9396	7.1900e-003	6.8700e-003	377.1676
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
Recreational Swimming Pool	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>0.0344</b>	<b>0.3125</b>	<b>0.2625</b>	<b>1.8700e-003</b>		<b>0.0238</b>	<b>0.0238</b>		<b>0.0238</b>	<b>0.0238</b>		<b>374.9396</b>	<b>374.9396</b>	<b>7.1900e-003</b>	<b>6.8700e-003</b>	<b>377.1676</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					
Library	3.18699	0.0344	0.3125	0.2625	1.8700e-003		0.0238	0.0238		0.0238	0.0238		374.9396	374.9396	7.1900e-003	6.8700e-003	377.1676
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
Recreational Swimming Pool	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>0.0344</b>	<b>0.3125</b>	<b>0.2625</b>	<b>1.8700e-003</b>		<b>0.0238</b>	<b>0.0238</b>		<b>0.0238</b>	<b>0.0238</b>		<b>374.9396</b>	<b>374.9396</b>	<b>7.1900e-003</b>	<b>6.8700e-003</b>	<b>377.1676</b>

**6.0 Area Detail**

San Bruno Recreation Center - Bay Area AQMD Air District, Summer

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.1721	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0469	0.0469	1.2000e-004		0.0500
Unmitigated	1.1721	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0469	0.0469	1.2000e-004		0.0500

**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	0.1416					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0285					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0400e-003	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0469	0.0469	1.2000e-004		0.0500
<b>Total</b>	<b>1.1721</b>	<b>2.0000e-004</b>	<b>0.0219</b>	<b>0.0000</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>0.0469</b>	<b>0.0469</b>	<b>1.2000e-004</b>		<b>0.0500</b>

San Bruno Recreation Center - 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	0.1416					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0285					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0400e-003	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0469	0.0469	1.2000e-004		0.0500
<b>Total</b>	<b>1.1721</b>	<b>2.0000e-004</b>	<b>0.0219</b>	<b>0.0000</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>0.0469</b>	<b>0.0469</b>	<b>1.2000e-004</b>		<b>0.0500</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**

San Bruno Recreation Center - Bay Area AQMD Air District, Summer

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.03	12	50	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 (50 - 75 HP)	2.4600e-003	8.0300e-003	8.9300e-003	1.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004		1.2593	1.2593	1.8000e-004		1.2637
<b>Total</b>	<b>2.4600e-003</b>	<b>8.0300e-003</b>	<b>8.9300e-003</b>	<b>1.0000e-005</b>		<b>3.6000e-004</b>	<b>3.6000e-004</b>		<b>3.6000e-004</b>	<b>3.6000e-004</b>		<b>1.2593</b>	<b>1.2593</b>	<b>1.8000e-004</b>		<b>1.2637</b>

**11.0 Vegetation**

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San Bruno Recreation Center - Bay Area AQMD Air District, Winter

**San Bruno Recreation Center**  
**Bay Area AQMD Air District, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Library	47.00	1000sqft	3.60	47,000.00	0
Parking Lot	160.00	Space	1.50	64,000.00	0
Recreational Swimming Pool	7.30	1000sqft	0.50	7,300.00	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>	5			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MWhr)</b>	328.8	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - CO2 intensity factor based on 5-year average (PG&E, 2015)

Land Use - Project would develop a Recreation Center, however Library was chosen as the closest representative land use type

Construction Phase - Construction of the proposed project would take 20 to 24 months

Demolition - The proposed project would include the demolition of the existing approximately 30,700-square-foot Veterans Memorial building

Vehicle Trips - Trip generation rate based on the Draft San Bruno Community Center - Transportation Impact Analysis

Mobile Land Use Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps - Emergency back up generator. Typical emergency generator testing is limited to less than 60 minutes per month.

## San Bruno Recreation Center - Bay Area AQMD Air District, Winter

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	230.00	300.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	10.00	30.00
tblLandUse	LotAcreage	1.08	3.60
tblLandUse	LotAcreage	1.44	1.50
tblLandUse	LotAcreage	0.17	0.50
tblProjectCharacteristics	CO2IntensityFactor	641.35	328.8
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	50.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.03
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	46.55	9.99
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	SU_TR	25.49	9.99
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	WD_TR	56.24	9.99
tblVehicleTrips	WD_TR	33.82	0.00

## 2.0 Emissions Summary

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San Bruno Recreation Center - 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	1.1721	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0469	0.0469	1.2000e-004		0.0500
Energy	0.0344	0.3125	0.2625	1.8700e-003		0.0238	0.0238		0.0238	0.0238		374.9396	374.9396	7.1900e-003	6.8700e-003	377.1676
Mobile	0.5740	2.7451	6.1340	0.0191	1.6907	0.0179	1.7086	0.4523	0.0168	0.4691		1,936.0264	1,936.0264	0.0806		1,938.0415
Stationary	2.4600e-003	8.0300e-003	8.9300e-003	1.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004		1.2593	1.2593	1.8000e-004		1.2637
<b>Total</b>	<b>1.7829</b>	<b>3.0658</b>	<b>6.4273</b>	<b>0.0210</b>	<b>1.6907</b>	<b>0.0421</b>	<b>1.7328</b>	<b>0.4523</b>	<b>0.0410</b>	<b>0.4933</b>		<b>2,312.2722</b>	<b>2,312.2722</b>	<b>0.0881</b>	<b>6.8700e-003</b>	<b>2,316.5228</b>

San Bruno Recreation Center - 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	1.1721	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0469	0.0469	1.2000e-004		0.0500
Energy	0.0344	0.3125	0.2625	1.8700e-003		0.0238	0.0238		0.0238	0.0238		374.9396	374.9396	7.1900e-003	6.8700e-003	377.1676
Mobile	0.5541	2.5953	5.6799	0.0171	1.4912	0.0162	1.5073	0.3990	0.0151	0.4141		1,729.2321	1,729.2321	0.0748		1,731.1023
Stationary	2.4600e-003	8.0300e-003	8.9300e-003	1.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004		1.2593	1.2593	1.8000e-004		1.2637
<b>Total</b>	<b>1.7630</b>	<b>2.9160</b>	<b>5.9732</b>	<b>0.0190</b>	<b>1.4912</b>	<b>0.0404</b>	<b>1.5315</b>	<b>0.3990</b>	<b>0.0393</b>	<b>0.4383</b>		<b>2,105.4779</b>	<b>2,105.4779</b>	<b>0.0823</b>	<b>6.8700e-003</b>	<b>2,109.5836</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>1.12</b>	<b>4.88</b>	<b>7.06</b>	<b>9.71</b>	<b>11.80</b>	<b>4.23</b>	<b>11.62</b>	<b>11.80</b>	<b>4.05</b>	<b>11.16</b>	<b>0.00</b>	<b>8.94</b>	<b>8.94</b>	<b>6.57</b>	<b>0.00</b>	<b>8.93</b>

**3.0 Construction Detail**

**Construction Phase**

## San Bruno Recreation Center - 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	1/4/2021	2/12/2021	5	30	
2	Site Preparation	Site Preparation	2/15/2021	3/26/2021	5	30	
3	Grading	Grading	3/29/2021	4/23/2021	5	20	
4	Building Construction	Building Construction	4/26/2021	6/17/2022	5	300	
5	Paving	Paving	6/20/2022	7/29/2022	5	30	
6	Architectural Coating	Architectural Coating	8/1/2022	9/9/2022	5	30	

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

**Acres of Grading (Grading Phase): 10**

**Acres of Paving: 1.5**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 70,500; Non-Residential Outdoor: 23,500; Striped Parking Area: 3,840 (Architectural Coating – sqft)**

**OffRoad Equipment**

## San Bruno Recreation Center - 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	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

San Bruno Recreation Center - 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	6	15.00	0.00	140.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	50.00	19.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0073	0.0000	1.0073	0.1525	0.0000	0.1525			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>	<b>1.0073</b>	<b>1.5513</b>	<b>2.5587</b>	<b>0.1525</b>	<b>1.4411</b>	<b>1.5936</b>		<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</b>

San Bruno Recreation Center - Bay Area AQMD Air District, Winter

**3.2 Demolition - 2021**

**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	0.0373	1.2637	0.2794	3.6000e-003	0.0815	3.9400e-003	0.0855	0.0223	3.7700e-003	0.0261		385.3316	385.3316	0.0204		385.8415
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	0.0511	0.0348	0.3447	1.1000e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		109.4305	109.4305	2.4800e-003		109.4924
<b>Total</b>	<b>0.0884</b>	<b>1.2985</b>	<b>0.6242</b>	<b>4.7000e-003</b>	<b>0.2048</b>	<b>4.7200e-003</b>	<b>0.2095</b>	<b>0.0550</b>	<b>4.4800e-003</b>	<b>0.0595</b>		<b>494.7621</b>	<b>494.7621</b>	<b>0.0229</b>		<b>495.3339</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					1.0073	0.0000	1.0073	0.1525	0.0000	0.1525			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
<b>Total</b>	<b>3.1651</b>	<b>31.4407</b>	<b>21.5650</b>	<b>0.0388</b>	<b>1.0073</b>	<b>1.5513</b>	<b>2.5587</b>	<b>0.1525</b>	<b>1.4411</b>	<b>1.5936</b>	<b>0.0000</b>	<b>3,747.9449</b>	<b>3,747.9449</b>	<b>1.0549</b>		<b>3,774.3174</b>

San Bruno Recreation Center - Bay Area AQMD Air District, Winter

**3.2 Demolition - 2021**

**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	0.0373	1.2637	0.2794	3.6000e-003	0.0815	3.9400e-003	0.0855	0.0223	3.7700e-003	0.0261		385.3316	385.3316	0.0204		385.8415
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	0.0511	0.0348	0.3447	1.1000e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		109.4305	109.4305	2.4800e-003		109.4924
<b>Total</b>	<b>0.0884</b>	<b>1.2985</b>	<b>0.6242</b>	<b>4.7000e-003</b>	<b>0.2048</b>	<b>4.7200e-003</b>	<b>0.2095</b>	<b>0.0550</b>	<b>4.4800e-003</b>	<b>0.0595</b>		<b>494.7621</b>	<b>494.7621</b>	<b>0.0229</b>		<b>495.3339</b>

**3.3 Site Preparation - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.0445</b>	<b>20.1107</b>	<b>9.9307</b>	<b>1.8809</b>	<b>11.8116</b>		<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

San Bruno Recreation Center - Bay Area AQMD Air District, Winter

**3.3 Site Preparation - 2021**

**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	0.0613	0.0418	0.4137	1.3200e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		131.3166	131.3166	2.9700e-003		131.3909
<b>Total</b>	<b>0.0613</b>	<b>0.0418</b>	<b>0.4137</b>	<b>1.3200e-003</b>	<b>0.1479</b>	<b>9.3000e-004</b>	<b>0.1488</b>	<b>0.0392</b>	<b>8.6000e-004</b>	<b>0.0401</b>		<b>131.3166</b>	<b>131.3166</b>	<b>2.9700e-003</b>		<b>131.3909</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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
<b>Total</b>	<b>3.8882</b>	<b>40.4971</b>	<b>21.1543</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.0445</b>	<b>20.1107</b>	<b>9.9307</b>	<b>1.8809</b>	<b>11.8116</b>	<b>0.0000</b>	<b>3,685.6569</b>	<b>3,685.6569</b>	<b>1.1920</b>		<b>3,715.4573</b>

San Bruno Recreation Center - Bay Area AQMD Air District, Winter

**3.3 Site Preparation - 2021**

**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	0.0613	0.0418	0.4137	1.3200e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		131.3166	131.3166	2.9700e-003		131.3909
<b>Total</b>	<b>0.0613</b>	<b>0.0418</b>	<b>0.4137</b>	<b>1.3200e-003</b>	<b>0.1479</b>	<b>9.3000e-004</b>	<b>0.1488</b>	<b>0.0392</b>	<b>8.6000e-004</b>	<b>0.0401</b>		<b>131.3166</b>	<b>131.3166</b>	<b>2.9700e-003</b>		<b>131.3909</b>

**3.4 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895,1495
<b>Total</b>	<b>2.2903</b>	<b>24.7367</b>	<b>15.8575</b>	<b>0.0296</b>	<b>6.5523</b>	<b>1.1599</b>	<b>7.7123</b>	<b>3.3675</b>	<b>1.0671</b>	<b>4.4346</b>		<b>2,871.9285</b>	<b>2,871.9285</b>	<b>0.9288</b>		<b>2,895,1495</b>

San Bruno Recreation Center - Bay Area AQMD Air District, Winter

**3.4 Grading - 2021**

**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	0.0511	0.0348	0.3447	1.1000e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		109.4305	109.4305	2.4800e-003		109.4924
<b>Total</b>	<b>0.0511</b>	<b>0.0348</b>	<b>0.3447</b>	<b>1.1000e-003</b>	<b>0.1232</b>	<b>7.8000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.1000e-004</b>	<b>0.0334</b>		<b>109.4305</b>	<b>109.4305</b>	<b>2.4800e-003</b>		<b>109.4924</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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671	0.0000	2,871.9285	2,871.9285	0.9288		2,895,1495
<b>Total</b>	<b>2.2903</b>	<b>24.7367</b>	<b>15.8575</b>	<b>0.0296</b>	<b>6.5523</b>	<b>1.1599</b>	<b>7.7123</b>	<b>3.3675</b>	<b>1.0671</b>	<b>4.4346</b>	<b>0.0000</b>	<b>2,871.9285</b>	<b>2,871.9285</b>	<b>0.9288</b>		<b>2,895,1495</b>

San Bruno Recreation Center - Bay Area AQMD Air District, Winter

**3.4 Grading - 2021**

**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	0.0511	0.0348	0.3447	1.1000e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		109.4305	109.4305	2.4800e-003		109.4924
<b>Total</b>	<b>0.0511</b>	<b>0.0348</b>	<b>0.3447</b>	<b>1.1000e-003</b>	<b>0.1232</b>	<b>7.8000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.1000e-004</b>	<b>0.0334</b>		<b>109.4305</b>	<b>109.4305</b>	<b>2.4800e-003</b>		<b>109.4924</b>

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>		<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>		<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>		<b>2,568.7643</b>

San Bruno Recreation Center - Bay Area AQMD Air District, Winter

**3.5 Building Construction - 2021**

**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	0.0624	1.9804	0.5322	5.0500e-003	0.1286	4.4000e-003	0.1330	0.0370	4.2100e-003	0.0412		535.0916	535.0916	0.0279		535.7885
Worker	0.1703	0.1161	1.1491	3.6600e-003	0.4107	2.5800e-003	0.4133	0.1090	2.3800e-003	0.1113		364.7683	364.7683	8.2500e-003		364.9747
<b>Total</b>	<b>0.2327</b>	<b>2.0964</b>	<b>1.6812</b>	<b>8.7100e-003</b>	<b>0.5394</b>	<b>6.9800e-003</b>	<b>0.5463</b>	<b>0.1460</b>	<b>6.5900e-003</b>	<b>0.1526</b>		<b>899.8599</b>	<b>899.8599</b>	<b>0.0361</b>		<b>900.7632</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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
<b>Total</b>	<b>1.9009</b>	<b>17.4321</b>	<b>16.5752</b>	<b>0.0269</b>		<b>0.9586</b>	<b>0.9586</b>		<b>0.9013</b>	<b>0.9013</b>	<b>0.0000</b>	<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>		<b>2,568.7643</b>

San Bruno Recreation Center - Bay Area AQMD Air District, Winter

**3.5 Building Construction - 2021**

**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	0.0624	1.9804	0.5322	5.0500e-003	0.1286	4.4000e-003	0.1330	0.0370	4.2100e-003	0.0412		535.0916	535.0916	0.0279		535.7885
Worker	0.1703	0.1161	1.1491	3.6600e-003	0.4107	2.5800e-003	0.4133	0.1090	2.3800e-003	0.1113		364.7683	364.7683	8.2500e-003		364.9747
<b>Total</b>	<b>0.2327</b>	<b>2.0964</b>	<b>1.6812</b>	<b>8.7100e-003</b>	<b>0.5394</b>	<b>6.9800e-003</b>	<b>0.5463</b>	<b>0.1460</b>	<b>6.5900e-003</b>	<b>0.1526</b>		<b>899.8599</b>	<b>899.8599</b>	<b>0.0361</b>		<b>900.7632</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>		<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

San Bruno Recreation Center - Bay Area AQMD Air District, Winter

**3.5 Building Construction - 2022**

**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	0.0582	1.8749	0.5003	5.0000e-003	0.1286	3.8200e-003	0.1324	0.0370	3.6500e-003	0.0407		529.7939	529.7939	0.0266		530.4597
Worker	0.1590	0.1041	1.0544	3.5200e-003	0.4107	2.5200e-003	0.4133	0.1090	2.3200e-003	0.1113		351.3960	351.3960	7.3900e-003		351.5808
<b>Total</b>	<b>0.2172</b>	<b>1.9790</b>	<b>1.5547</b>	<b>8.5200e-003</b>	<b>0.5394</b>	<b>6.3400e-003</b>	<b>0.5457</b>	<b>0.1460</b>	<b>5.9700e-003</b>	<b>0.1520</b>		<b>881.1899</b>	<b>881.1899</b>	<b>0.0340</b>		<b>882.0404</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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
<b>Total</b>	<b>1.7062</b>	<b>15.6156</b>	<b>16.3634</b>	<b>0.0269</b>		<b>0.8090</b>	<b>0.8090</b>		<b>0.7612</b>	<b>0.7612</b>	<b>0.0000</b>	<b>2,554.3336</b>	<b>2,554.3336</b>	<b>0.6120</b>		<b>2,569.6322</b>

San Bruno Recreation Center - Bay Area AQMD Air District, Winter

**3.5 Building Construction - 2022**

**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	0.0582	1.8749	0.5003	5.0000e-003	0.1286	3.8200e-003	0.1324	0.0370	3.6500e-003	0.0407		529.7939	529.7939	0.0266		530.4597
Worker	0.1590	0.1041	1.0544	3.5200e-003	0.4107	2.5200e-003	0.4133	0.1090	2.3200e-003	0.1113		351.3960	351.3960	7.3900e-003		351.5808
<b>Total</b>	<b>0.2172</b>	<b>1.9790</b>	<b>1.5547</b>	<b>8.5200e-003</b>	<b>0.5394</b>	<b>6.3400e-003</b>	<b>0.5457</b>	<b>0.1460</b>	<b>5.9700e-003</b>	<b>0.1520</b>		<b>881.1899</b>	<b>881.1899</b>	<b>0.0340</b>		<b>882.0404</b>

**3.6 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.1310					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.2338</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>		<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>

San Bruno Recreation Center - Bay Area AQMD Air District, Winter

**3.6 Paving - 2022**

**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	0.0477	0.0312	0.3163	1.0600e-003	0.1232	7.6000e-004	0.1240	0.0327	7.0000e-004	0.0334		105.4188	105.4188	2.2200e-003		105.4742
<b>Total</b>	<b>0.0477</b>	<b>0.0312</b>	<b>0.3163</b>	<b>1.0600e-003</b>	<b>0.1232</b>	<b>7.6000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.0000e-004</b>	<b>0.0334</b>		<b>105.4188</b>	<b>105.4188</b>	<b>2.2200e-003</b>		<b>105.4742</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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.1310					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.2338</b>	<b>11.1249</b>	<b>14.5805</b>	<b>0.0228</b>		<b>0.5679</b>	<b>0.5679</b>		<b>0.5225</b>	<b>0.5225</b>	<b>0.0000</b>	<b>2,207.6603</b>	<b>2,207.6603</b>	<b>0.7140</b>		<b>2,225.5104</b>

San Bruno Recreation Center - Bay Area AQMD Air District, Winter

**3.6 Paving - 2022**

**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	0.0477	0.0312	0.3163	1.0600e-003	0.1232	7.6000e-004	0.1240	0.0327	7.0000e-004	0.0334		105.4188	105.4188	2.2200e-003		105.4742
<b>Total</b>	<b>0.0477</b>	<b>0.0312</b>	<b>0.3163</b>	<b>1.0600e-003</b>	<b>0.1232</b>	<b>7.6000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.0000e-004</b>	<b>0.0334</b>		<b>105.4188</b>	<b>105.4188</b>	<b>2.2200e-003</b>		<b>105.4742</b>

**3.7 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	17.2283					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>17.4328</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

San Bruno Recreation Center - Bay Area AQMD Air District, Winter

**3.7 Architectural Coating - 2022**

**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	0.0318	0.0208	0.2109	7.0000e-004	0.0822	5.0000e-004	0.0827	0.0218	4.6000e-004	0.0223		70.2792	70.2792	1.4800e-003		70.3162
<b>Total</b>	<b>0.0318</b>	<b>0.0208</b>	<b>0.2109</b>	<b>7.0000e-004</b>	<b>0.0822</b>	<b>5.0000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>4.6000e-004</b>	<b>0.0223</b>		<b>70.2792</b>	<b>70.2792</b>	<b>1.4800e-003</b>		<b>70.3162</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	17.2283					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>17.4328</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

San Bruno Recreation Center - Bay Area AQMD Air District, Winter

**3.7 Architectural Coating - 2022**

**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	0.0318	0.0208	0.2109	7.0000e-004	0.0822	5.0000e-004	0.0827	0.0218	4.6000e-004	0.0223		70.2792	70.2792	1.4800e-003		70.3162
<b>Total</b>	<b>0.0318</b>	<b>0.0208</b>	<b>0.2109</b>	<b>7.0000e-004</b>	<b>0.0822</b>	<b>5.0000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>4.6000e-004</b>	<b>0.0223</b>		<b>70.2792</b>	<b>70.2792</b>	<b>1.4800e-003</b>		<b>70.3162</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Increase Diversity

Improve Walkability Design

Improve Destination Accessibility

Improve Pedestrian Network

San Bruno Recreation Center - 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	0.5541	2.5953	5.6799	0.0171	1.4912	0.0162	1.5073	0.3990	0.0151	0.4141		1,729.232 1	1,729.232 1	0.0748		1,731.102 3
Unmitigated	0.5740	2.7451	6.1340	0.0191	1.6907	0.0179	1.7086	0.4523	0.0168	0.4691		1,936.026 4	1,936.026 4	0.0806		1,938.041 5

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Library	469.53	469.53	469.53	795,786	701,883
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Total	469.53	469.53	469.53	795,786	701,883

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
Library	9.50	7.30	7.30	52.00	43.00	5.00	44	44	12
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9

4.4 Fleet Mix

San Bruno Recreation Center - Bay Area AQMD Air District, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Library	0.576985	0.039376	0.193723	0.112069	0.016317	0.005358	0.017943	0.025814	0.002614	0.002274	0.005874	0.000887	0.000768
Parking Lot	0.576985	0.039376	0.193723	0.112069	0.016317	0.005358	0.017943	0.025814	0.002614	0.002274	0.005874	0.000887	0.000768
Recreational Swimming Pool	0.576985	0.039376	0.193723	0.112069	0.016317	0.005358	0.017943	0.025814	0.002614	0.002274	0.005874	0.000887	0.000768

**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	0.0344	0.3125	0.2625	1.8700e-003		0.0238	0.0238		0.0238	0.0238		374.9396	374.9396	7.1900e-003	6.8700e-003	377.1676
NaturalGas Unmitigated	0.0344	0.3125	0.2625	1.8700e-003		0.0238	0.0238		0.0238	0.0238		374.9396	374.9396	7.1900e-003	6.8700e-003	377.1676

San Bruno Recreation Center - 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					
Library	3186.99	0.0344	0.3125	0.2625	1.8700e-003		0.0238	0.0238		0.0238	0.0238		374.9396	374.9396	7.1900e-003	6.8700e-003	377.1676
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
Recreational Swimming Pool	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>0.0344</b>	<b>0.3125</b>	<b>0.2625</b>	<b>1.8700e-003</b>		<b>0.0238</b>	<b>0.0238</b>		<b>0.0238</b>	<b>0.0238</b>		<b>374.9396</b>	<b>374.9396</b>	<b>7.1900e-003</b>	<b>6.8700e-003</b>	<b>377.1676</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					
Library	3.18699	0.0344	0.3125	0.2625	1.8700e-003		0.0238	0.0238		0.0238	0.0238		374.9396	374.9396	7.1900e-003	6.8700e-003	377.1676
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
Recreational Swimming Pool	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>0.0344</b>	<b>0.3125</b>	<b>0.2625</b>	<b>1.8700e-003</b>		<b>0.0238</b>	<b>0.0238</b>		<b>0.0238</b>	<b>0.0238</b>		<b>374.9396</b>	<b>374.9396</b>	<b>7.1900e-003</b>	<b>6.8700e-003</b>	<b>377.1676</b>

**6.0 Area Detail**

San Bruno Recreation Center - Bay Area AQMD Air District, Winter

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.1721	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0469	0.0469	1.2000e-004		0.0500
Unmitigated	1.1721	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0469	0.0469	1.2000e-004		0.0500

**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	0.1416					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0285					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0400e-003	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0469	0.0469	1.2000e-004		0.0500
<b>Total</b>	<b>1.1721</b>	<b>2.0000e-004</b>	<b>0.0219</b>	<b>0.0000</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>0.0469</b>	<b>0.0469</b>	<b>1.2000e-004</b>		<b>0.0500</b>

San Bruno Recreation Center - 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	0.1416					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0285					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0400e-003	2.0000e-004	0.0219	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0469	0.0469	1.2000e-004		0.0500
<b>Total</b>	<b>1.1721</b>	<b>2.0000e-004</b>	<b>0.0219</b>	<b>0.0000</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>0.0469</b>	<b>0.0469</b>	<b>1.2000e-004</b>		<b>0.0500</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

San Bruno Recreation Center - Bay Area AQMD Air District, Winter

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.03	12	50	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 (50 - 75 HP)	2.4600e-003	8.0300e-003	8.9300e-003	1.0000e-005		3.6000e-004	3.6000e-004		3.6000e-004	3.6000e-004		1.2593	1.2593	1.8000e-004		1.2637
<b>Total</b>	<b>2.4600e-003</b>	<b>8.0300e-003</b>	<b>8.9300e-003</b>	<b>1.0000e-005</b>		<b>3.6000e-004</b>	<b>3.6000e-004</b>		<b>3.6000e-004</b>	<b>3.6000e-004</b>		<b>1.2593</b>	<b>1.2593</b>	<b>1.8000e-004</b>		<b>1.2637</b>

**11.0 Vegetation**

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## San Bruno Recreation Center - Bay Area AQMD Air District, Annual

**San Bruno Recreation Center - Mitigated Construction**  
**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
Library	47.00	1000sqft	3.60	47,000.00	0
Parking Lot	160.00	Space	1.50	64,000.00	0
Recreational Swimming Pool	7.30	1000sqft	0.50	7,300.00	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>	5			<b>Operational Year</b>	2022
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	328.8	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Project Characteristics - CO2 intensity factor based on 5-year average (PG&E, 2015)

Land Use - Project would develop a Recreation Center, however Library was chosen as the closest representative land use type

Construction Phase - Construction of the proposed project would take 20 to 24 months

Demolition - The proposed project would include the demolition of the existing approximately 30,700-square-foot Veterans Memorial building

Vehicle Trips - Trip generation rate based on the Draft San Bruno Community Center - Transportation Impact Analysis

Mobile Land Use Mitigation -

Construction Off-road Equipment Mitigation - Tier 2 construction equipment with level 3 diesel particulate filters

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Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	NumDays	230.00	300.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	20.00	30.00
tblLandUse	LotAcreage	1.08	3.60
tblLandUse	LotAcreage	1.44	1.50
tblLandUse	LotAcreage	0.17	0.50
tblProjectCharacteristics	CO2IntensityFactor	641.35	328.8
tblVehicleTrips	ST_TR	46.55	9.99
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	SU_TR	25.49	9.99
tblVehicleTrips	SU_TR	13.60	0.00

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tblVehicleTrips	WD_TR	56.24	9.99
tblVehicleTrips	WD_TR	33.82	0.00

**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	1-4-2021	4-3-2021	1.2078	1.0636
2	4-4-2021	7-3-2021	0.7261	0.8587
3	7-4-2021	10-3-2021	0.7101	0.8843
4	10-4-2021	1-3-2022	0.7095	0.8858
5	1-4-2022	4-3-2022	0.6273	0.8624
6	4-4-2022	7-3-2022	0.5837	0.8237
7	7-4-2022	9-30-2022	0.3852	0.4793
		Highest	1.2078	1.0636

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	0.2137	2.0000e-005	1.9700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8300e-003	3.8300e-003	1.0000e-005	0.0000	4.0800e-003
Energy	6.2700e-003	0.0570	0.0479	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	118.4091	118.4091	6.1600e-003	2.1700e-003	119.2085
Mobile	0.1055	0.4928	1.0545	3.5200e-003	0.2962	3.2400e-003	0.2994	0.0795	3.0300e-003	0.0825	0.0000	323.0548	323.0548	0.0129	0.0000	323.3768
Waste						0.0000	0.0000		0.0000	0.0000	17.2319	0.0000	17.2319	1.0184	0.0000	42.6913
Water						0.0000	0.0000		0.0000	0.0000	0.6035	2.8740	3.4775	0.0622	1.5200e-003	5.4853
<b>Total</b>	<b>0.3255</b>	<b>0.5498</b>	<b>1.1044</b>	<b>3.8600e-003</b>	<b>0.2962</b>	<b>7.5800e-003</b>	<b>0.3038</b>	<b>0.0795</b>	<b>7.3700e-003</b>	<b>0.0869</b>	<b>17.8354</b>	<b>444.3417</b>	<b>462.1771</b>	<b>1.0997</b>	<b>3.6900e-003</b>	<b>490.7660</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	0.2137	2.0000e-005	1.9700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8300e-003	3.8300e-003	1.0000e-005	0.0000	4.0800e-003
Energy	6.2700e-003	0.0570	0.0479	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	118.4091	118.4091	6.1600e-003	2.1700e-003	119.2085
Mobile	0.1019	0.4666	0.9722	3.1400e-003	0.2612	2.9200e-003	0.2641	0.0701	2.7300e-003	0.0729	0.0000	288.7057	288.7057	0.0119	0.0000	289.0038
Waste						0.0000	0.0000		0.0000	0.0000	17.2319	0.0000	17.2319	1.0184	0.0000	42.6913
Water						0.0000	0.0000		0.0000	0.0000	0.6035	2.8740	3.4775	0.0622	1.5200e-003	5.4853
<b>Total</b>	<b>0.3219</b>	<b>0.5236</b>	<b>1.0221</b>	<b>3.4800e-003</b>	<b>0.2612</b>	<b>7.2600e-003</b>	<b>0.2685</b>	<b>0.0701</b>	<b>7.0700e-003</b>	<b>0.0772</b>	<b>17.8354</b>	<b>409.9926</b>	<b>427.8280</b>	<b>1.0987</b>	<b>3.6900e-003</b>	<b>456.3930</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>1.11</b>	<b>4.77</b>	<b>7.45</b>	<b>9.84</b>	<b>11.80</b>	<b>4.22</b>	<b>11.61</b>	<b>11.80</b>	<b>4.07</b>	<b>11.14</b>	<b>0.00</b>	<b>7.73</b>	<b>7.43</b>	<b>0.09</b>	<b>0.00</b>	<b>7.00</b>

**3.0 Construction Detail**

**Construction Phase**

## San Bruno Recreation Center - Bay Area AQMD Air District, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/4/2021	2/12/2021	5	30	
2	Site Preparation	Site Preparation	2/15/2021	3/26/2021	5	30	
3	Grading	Grading	3/29/2021	4/23/2021	5	20	
4	Building Construction	Building Construction	4/26/2021	6/17/2022	5	300	
5	Paving	Paving	6/20/2022	7/29/2022	5	30	
6	Architectural Coating	Architectural Coating	8/1/2022	9/9/2022	5	30	

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

**Acres of Grading (Grading Phase): 10**

**Acres of Paving: 1.5**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 70,500; Non-Residential Outdoor: 23,500; Striped Parking Area: 3,840 (Architectural Coating – sqft)**

**OffRoad Equipment**

## San Bruno Recreation Center - Bay Area AQMD Air District, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

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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	6	15.00	0.00	140.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	50.00	19.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

**3.2 Demolition - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0151	0.0000	0.0151	2.2900e-003	0.0000	2.2900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233		0.0216	0.0216	0.0000	51.0012	51.0012	0.0144	0.0000	51.3601
<b>Total</b>	<b>0.0475</b>	<b>0.4716</b>	<b>0.3235</b>	<b>5.8000e-004</b>	<b>0.0151</b>	<b>0.0233</b>	<b>0.0384</b>	<b>2.2900e-003</b>	<b>0.0216</b>	<b>0.0239</b>	<b>0.0000</b>	<b>51.0012</b>	<b>51.0012</b>	<b>0.0144</b>	<b>0.0000</b>	<b>51.3601</b>

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**3.2 Demolition - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.5000e-004	0.0189	4.0300e-003	5.0000e-005	1.1800e-003	6.0000e-005	1.2400e-003	3.3000e-004	6.0000e-005	3.8000e-004	0.0000	5.2958	5.2958	2.7000e-004	0.0000	5.3026
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	4.8000e-004	5.0500e-003	2.0000e-005	1.7800e-003	1.0000e-005	1.7900e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.5030	1.5030	3.0000e-005	0.0000	1.5038
<b>Total</b>	<b>1.2400e-003</b>	<b>0.0194</b>	<b>9.0800e-003</b>	<b>7.0000e-005</b>	<b>2.9600e-003</b>	<b>7.0000e-005</b>	<b>3.0300e-003</b>	<b>8.0000e-004</b>	<b>7.0000e-005</b>	<b>8.6000e-004</b>	<b>0.0000</b>	<b>6.7988</b>	<b>6.7988</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>6.8064</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					6.8000e-003	0.0000	6.8000e-003	1.0300e-003	0.0000	1.0300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0189	0.4900	0.3701	5.8000e-004		2.0600e-003	2.0600e-003		2.0600e-003	2.0600e-003	0.0000	51.0011	51.0011	0.0144	0.0000	51.3600
<b>Total</b>	<b>0.0189</b>	<b>0.4900</b>	<b>0.3701</b>	<b>5.8000e-004</b>	<b>6.8000e-003</b>	<b>2.0600e-003</b>	<b>8.8600e-003</b>	<b>1.0300e-003</b>	<b>2.0600e-003</b>	<b>3.0900e-003</b>	<b>0.0000</b>	<b>51.0011</b>	<b>51.0011</b>	<b>0.0144</b>	<b>0.0000</b>	<b>51.3600</b>

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**3.2 Demolition - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.5000e-004	0.0189	4.0300e-003	5.0000e-005	1.1800e-003	6.0000e-005	1.2400e-003	3.3000e-004	6.0000e-005	3.8000e-004	0.0000	5.2958	5.2958	2.7000e-004	0.0000	5.3026
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.9000e-004	4.8000e-004	5.0500e-003	2.0000e-005	1.7800e-003	1.0000e-005	1.7900e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.5030	1.5030	3.0000e-005	0.0000	1.5038
<b>Total</b>	<b>1.2400e-003</b>	<b>0.0194</b>	<b>9.0800e-003</b>	<b>7.0000e-005</b>	<b>2.9600e-003</b>	<b>7.0000e-005</b>	<b>3.0300e-003</b>	<b>8.0000e-004</b>	<b>7.0000e-005</b>	<b>8.6000e-004</b>	<b>0.0000</b>	<b>6.7988</b>	<b>6.7988</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>6.8064</b>

**3.3 Site Preparation - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2710	0.0000	0.2710	0.1490	0.0000	0.1490	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0583	0.6075	0.3173	5.7000e-004		0.0307	0.0307		0.0282	0.0282	0.0000	50.1536	50.1536	0.0162	0.0000	50.5591
<b>Total</b>	<b>0.0583</b>	<b>0.6075</b>	<b>0.3173</b>	<b>5.7000e-004</b>	<b>0.2710</b>	<b>0.0307</b>	<b>0.3017</b>	<b>0.1490</b>	<b>0.0282</b>	<b>0.1772</b>	<b>0.0000</b>	<b>50.1536</b>	<b>50.1536</b>	<b>0.0162</b>	<b>0.0000</b>	<b>50.5591</b>

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**3.3 Site Preparation - 2021**

**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	8.3000e-004	5.7000e-004	6.0600e-003	2.0000e-005	2.1300e-003	1.0000e-005	2.1500e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.8036	1.8036	4.0000e-005	0.0000	1.8046
<b>Total</b>	<b>8.3000e-004</b>	<b>5.7000e-004</b>	<b>6.0600e-003</b>	<b>2.0000e-005</b>	<b>2.1300e-003</b>	<b>1.0000e-005</b>	<b>2.1500e-003</b>	<b>5.7000e-004</b>	<b>1.0000e-005</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>1.8036</b>	<b>1.8036</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.8046</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					0.1220	0.0000	0.1220	0.0670	0.0000	0.0670	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0181	0.5058	0.3444	5.7000e-004		2.1300e-003	2.1300e-003		2.1300e-003	2.1300e-003	0.0000	50.1535	50.1535	0.0162	0.0000	50.5590
<b>Total</b>	<b>0.0181</b>	<b>0.5058</b>	<b>0.3444</b>	<b>5.7000e-004</b>	<b>0.1220</b>	<b>2.1300e-003</b>	<b>0.1241</b>	<b>0.0670</b>	<b>2.1300e-003</b>	<b>0.0692</b>	<b>0.0000</b>	<b>50.1535</b>	<b>50.1535</b>	<b>0.0162</b>	<b>0.0000</b>	<b>50.5590</b>

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**3.3 Site Preparation - 2021**

**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	8.3000e-004	5.7000e-004	6.0600e-003	2.0000e-005	2.1300e-003	1.0000e-005	2.1500e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.8036	1.8036	4.0000e-005	0.0000	1.8046
<b>Total</b>	<b>8.3000e-004</b>	<b>5.7000e-004</b>	<b>6.0600e-003</b>	<b>2.0000e-005</b>	<b>2.1300e-003</b>	<b>1.0000e-005</b>	<b>2.1500e-003</b>	<b>5.7000e-004</b>	<b>1.0000e-005</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>1.8036</b>	<b>1.8036</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.8046</b>

**3.4 Grading - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0229	0.2474	0.1586	3.0000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	26.0537	26.0537	8.4300e-003	0.0000	26.2644
<b>Total</b>	<b>0.0229</b>	<b>0.2474</b>	<b>0.1586</b>	<b>3.0000e-004</b>	<b>0.0655</b>	<b>0.0116</b>	<b>0.0771</b>	<b>0.0337</b>	<b>0.0107</b>	<b>0.0443</b>	<b>0.0000</b>	<b>26.0537</b>	<b>26.0537</b>	<b>8.4300e-003</b>	<b>0.0000</b>	<b>26.2644</b>

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**3.4 Grading - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.2000e-004	3.3600e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0020	1.0020	2.0000e-005	0.0000	1.0026
<b>Total</b>	<b>4.6000e-004</b>	<b>3.2000e-004</b>	<b>3.3600e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.0020</b>	<b>1.0020</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.0026</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					0.0295	0.0000	0.0295	0.0152	0.0000	0.0152	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0101	0.2628	0.1899	3.0000e-004		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	26.0537	26.0537	8.4300e-003	0.0000	26.2643
<b>Total</b>	<b>0.0101</b>	<b>0.2628</b>	<b>0.1899</b>	<b>3.0000e-004</b>	<b>0.0295</b>	<b>1.1600e-003</b>	<b>0.0307</b>	<b>0.0152</b>	<b>1.1600e-003</b>	<b>0.0163</b>	<b>0.0000</b>	<b>26.0537</b>	<b>26.0537</b>	<b>8.4300e-003</b>	<b>0.0000</b>	<b>26.2643</b>

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**3.4 Grading - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.6000e-004	3.2000e-004	3.3600e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0020	1.0020	2.0000e-005	0.0000	1.0026
<b>Total</b>	<b>4.6000e-004</b>	<b>3.2000e-004</b>	<b>3.3600e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>1.0020</b>	<b>1.0020</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.0026</b>

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1711	1.5689	1.4918	2.4200e-003		0.0863	0.0863		0.0811	0.0811	0.0000	208.4736	208.4736	0.0503	0.0000	209.7309
<b>Total</b>	<b>0.1711</b>	<b>1.5689</b>	<b>1.4918</b>	<b>2.4200e-003</b>		<b>0.0863</b>	<b>0.0863</b>		<b>0.0811</b>	<b>0.0811</b>	<b>0.0000</b>	<b>208.4736</b>	<b>208.4736</b>	<b>0.0503</b>	<b>0.0000</b>	<b>209.7309</b>

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**3.5 Building Construction - 2021**

**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	5.4300e-003	0.1786	0.0446	4.6000e-004	0.0112	3.9000e-004	0.0116	3.2400e-003	3.7000e-004	3.6100e-003	0.0000	44.3478	44.3478	2.1800e-003	0.0000	44.4023
Worker	0.0138	9.5300e-003	0.1009	3.3000e-004	0.0356	2.3000e-004	0.0358	9.4600e-003	2.1000e-004	9.6700e-003	0.0000	30.0596	30.0596	6.7000e-004	0.0000	30.0764
<b>Total</b>	<b>0.0192</b>	<b>0.1881</b>	<b>0.1455</b>	<b>7.9000e-004</b>	<b>0.0468</b>	<b>6.2000e-004</b>	<b>0.0474</b>	<b>0.0127</b>	<b>5.8000e-004</b>	<b>0.0133</b>	<b>0.0000</b>	<b>74.4074</b>	<b>74.4074</b>	<b>2.8500e-003</b>	<b>0.0000</b>	<b>74.4787</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	0.0973	2.1199	1.6086	2.4200e-003		0.0122	0.0122		0.0122	0.0122	0.0000	208.4733	208.4733	0.0503	0.0000	209.7307
<b>Total</b>	<b>0.0973</b>	<b>2.1199</b>	<b>1.6086</b>	<b>2.4200e-003</b>		<b>0.0122</b>	<b>0.0122</b>		<b>0.0122</b>	<b>0.0122</b>	<b>0.0000</b>	<b>208.4733</b>	<b>208.4733</b>	<b>0.0503</b>	<b>0.0000</b>	<b>209.7307</b>

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**3.5 Building Construction - 2021**

**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	5.4300e-003	0.1786	0.0446	4.6000e-004	0.0112	3.9000e-004	0.0116	3.2400e-003	3.7000e-004	3.6100e-003	0.0000	44.3478	44.3478	2.1800e-003	0.0000	44.4023
Worker	0.0138	9.5300e-003	0.1009	3.3000e-004	0.0356	2.3000e-004	0.0358	9.4600e-003	2.1000e-004	9.6700e-003	0.0000	30.0596	30.0596	6.7000e-004	0.0000	30.0764
<b>Total</b>	<b>0.0192</b>	<b>0.1881</b>	<b>0.1455</b>	<b>7.9000e-004</b>	<b>0.0468</b>	<b>6.2000e-004</b>	<b>0.0474</b>	<b>0.0127</b>	<b>5.8000e-004</b>	<b>0.0133</b>	<b>0.0000</b>	<b>74.4074</b>	<b>74.4074</b>	<b>2.8500e-003</b>	<b>0.0000</b>	<b>74.4787</b>

**3.5 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1024	0.9369	0.9818	1.6200e-003		0.0485	0.0485		0.0457	0.0457	0.0000	139.0352	139.0352	0.0333	0.0000	139.8679
<b>Total</b>	<b>0.1024</b>	<b>0.9369</b>	<b>0.9818</b>	<b>1.6200e-003</b>		<b>0.0485</b>	<b>0.0485</b>		<b>0.0457</b>	<b>0.0457</b>	<b>0.0000</b>	<b>139.0352</b>	<b>139.0352</b>	<b>0.0333</b>	<b>0.0000</b>	<b>139.8679</b>

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**3.5 Building Construction - 2022**

**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	3.3800e-003	0.1128	0.0279	3.0000e-004	7.4800e-003	2.2000e-004	7.7000e-003	2.1600e-003	2.1000e-004	2.3800e-003	0.0000	29.2753	29.2753	1.3900e-003	0.0000	29.3100
Worker	8.5800e-003	5.7000e-003	0.0618	2.1000e-004	0.0237	1.5000e-004	0.0239	6.3100e-003	1.4000e-004	6.4500e-003	0.0000	19.3050	19.3050	4.0000e-004	0.0000	19.3151
<b>Total</b>	<b>0.0120</b>	<b>0.1185</b>	<b>0.0898</b>	<b>5.1000e-004</b>	<b>0.0312</b>	<b>3.7000e-004</b>	<b>0.0316</b>	<b>8.4700e-003</b>	<b>3.5000e-004</b>	<b>8.8300e-003</b>	<b>0.0000</b>	<b>48.5803</b>	<b>48.5803</b>	<b>1.7900e-003</b>	<b>0.0000</b>	<b>48.6251</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	0.0649	1.4133	1.0724	1.6200e-003		8.1300e-003	8.1300e-003		8.1300e-003	8.1300e-003	0.0000	139.0350	139.0350	0.0333	0.0000	139.8677
<b>Total</b>	<b>0.0649</b>	<b>1.4133</b>	<b>1.0724</b>	<b>1.6200e-003</b>		<b>8.1300e-003</b>	<b>8.1300e-003</b>		<b>8.1300e-003</b>	<b>8.1300e-003</b>	<b>0.0000</b>	<b>139.0350</b>	<b>139.0350</b>	<b>0.0333</b>	<b>0.0000</b>	<b>139.8677</b>

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**3.5 Building Construction - 2022**

**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	3.3800e-003	0.1128	0.0279	3.0000e-004	7.4800e-003	2.2000e-004	7.7000e-003	2.1600e-003	2.1000e-004	2.3800e-003	0.0000	29.2753	29.2753	1.3900e-003	0.0000	29.3100
Worker	8.5800e-003	5.7000e-003	0.0618	2.1000e-004	0.0237	1.5000e-004	0.0239	6.3100e-003	1.4000e-004	6.4500e-003	0.0000	19.3050	19.3050	4.0000e-004	0.0000	19.3151
<b>Total</b>	<b>0.0120</b>	<b>0.1185</b>	<b>0.0898</b>	<b>5.1000e-004</b>	<b>0.0312</b>	<b>3.7000e-004</b>	<b>0.0316</b>	<b>8.4700e-003</b>	<b>3.5000e-004</b>	<b>8.8300e-003</b>	<b>0.0000</b>	<b>48.5803</b>	<b>48.5803</b>	<b>1.7900e-003</b>	<b>0.0000</b>	<b>48.6251</b>

**3.6 Paving - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0165	0.1669	0.2187	3.4000e-004		8.5200e-003	8.5200e-003		7.8400e-003	7.8400e-003	0.0000	30.0413	30.0413	9.7200e-003	0.0000	30.2842
Paving	1.9700e-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>0.0185</b>	<b>0.1669</b>	<b>0.2187</b>	<b>3.4000e-004</b>		<b>8.5200e-003</b>	<b>8.5200e-003</b>		<b>7.8400e-003</b>	<b>7.8400e-003</b>	<b>0.0000</b>	<b>30.0413</b>	<b>30.0413</b>	<b>9.7200e-003</b>	<b>0.0000</b>	<b>30.2842</b>

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**3.6 Paving - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4000e-004	4.3000e-004	4.6400e-003	2.0000e-005	1.7800e-003	1.0000e-005	1.7900e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.4479	1.4479	3.0000e-005	0.0000	1.4486
<b>Total</b>	<b>6.4000e-004</b>	<b>4.3000e-004</b>	<b>4.6400e-003</b>	<b>2.0000e-005</b>	<b>1.7800e-003</b>	<b>1.0000e-005</b>	<b>1.7900e-003</b>	<b>4.7000e-004</b>	<b>1.0000e-005</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>1.4479</b>	<b>1.4479</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.4486</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	0.0140	0.3017	0.2594	3.4000e-004		1.5000e-003	1.5000e-003		1.5000e-003	1.5000e-003	0.0000	30.0413	30.0413	9.7200e-003	0.0000	30.2842
Paving	1.9700e-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>0.0159</b>	<b>0.3017</b>	<b>0.2594</b>	<b>3.4000e-004</b>		<b>1.5000e-003</b>	<b>1.5000e-003</b>		<b>1.5000e-003</b>	<b>1.5000e-003</b>	<b>0.0000</b>	<b>30.0413</b>	<b>30.0413</b>	<b>9.7200e-003</b>	<b>0.0000</b>	<b>30.2842</b>

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**3.6 Paving - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4000e-004	4.3000e-004	4.6400e-003	2.0000e-005	1.7800e-003	1.0000e-005	1.7900e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.4479	1.4479	3.0000e-005	0.0000	1.4486
<b>Total</b>	<b>6.4000e-004</b>	<b>4.3000e-004</b>	<b>4.6400e-003</b>	<b>2.0000e-005</b>	<b>1.7800e-003</b>	<b>1.0000e-005</b>	<b>1.7900e-003</b>	<b>4.7000e-004</b>	<b>1.0000e-005</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>1.4479</b>	<b>1.4479</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.4486</b>

**3.7 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2584					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0700e-003	0.0211	0.0272	4.0000e-005		1.2300e-003	1.2300e-003		1.2300e-003	1.2300e-003	0.0000	3.8299	3.8299	2.5000e-004	0.0000	3.8361
<b>Total</b>	<b>0.2615</b>	<b>0.0211</b>	<b>0.0272</b>	<b>4.0000e-005</b>		<b>1.2300e-003</b>	<b>1.2300e-003</b>		<b>1.2300e-003</b>	<b>1.2300e-003</b>	<b>0.0000</b>	<b>3.8299</b>	<b>3.8299</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>3.8361</b>

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**3.7 Architectural Coating - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.8000e-004	3.0900e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9653	0.9653	2.0000e-005	0.0000	0.9658
<b>Total</b>	<b>4.3000e-004</b>	<b>2.8000e-004</b>	<b>3.0900e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.9653</b>	<b>0.9653</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.9658</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	0.2584					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7100e-003	0.0353	0.0275	4.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	3.8299	3.8299	2.5000e-004	0.0000	3.8361
<b>Total</b>	<b>0.2601</b>	<b>0.0353</b>	<b>0.0275</b>	<b>4.0000e-005</b>		<b>2.1000e-004</b>	<b>2.1000e-004</b>		<b>2.1000e-004</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>3.8299</b>	<b>3.8299</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>3.8361</b>

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**3.7 Architectural Coating - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.3000e-004	2.8000e-004	3.0900e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.1900e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	0.9653	0.9653	2.0000e-005	0.0000	0.9658
<b>Total</b>	<b>4.3000e-004</b>	<b>2.8000e-004</b>	<b>3.0900e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>1.0000e-005</b>	<b>1.1900e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>0.0000</b>	<b>0.9653</b>	<b>0.9653</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.9658</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Increase Diversity

Improve Walkability Design

Improve Destination Accessibility

Improve Pedestrian Network

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1019	0.4666	0.9722	3.1400e-003	0.2612	2.9200e-003	0.2641	0.0701	2.7300e-003	0.0729	0.0000	288.7057	288.7057	0.0119	0.0000	289.0038
Unmitigated	0.1055	0.4928	1.0545	3.5200e-003	0.2962	3.2400e-003	0.2994	0.0795	3.0300e-003	0.0825	0.0000	323.0548	323.0548	0.0129	0.0000	323.3768

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Library	469.53	469.53	469.53	795,786	701,883
Parking Lot	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Total	469.53	469.53	469.53	795,786	701,883

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
Library	9.50	7.30	7.30	52.00	43.00	5.00	44	44	12
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Library	0.576985	0.039376	0.193723	0.112069	0.016317	0.005358	0.017943	0.025814	0.002614	0.002274	0.005874	0.000887	0.000768
Parking Lot	0.576985	0.039376	0.193723	0.112069	0.016317	0.005358	0.017943	0.025814	0.002614	0.002274	0.005874	0.000887	0.000768
Recreational Swimming Pool	0.576985	0.039376	0.193723	0.112069	0.016317	0.005358	0.017943	0.025814	0.002614	0.002274	0.005874	0.000887	0.000768

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	56.3336	56.3336	4.9700e-003	1.0300e-003	56.7642
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	56.3336	56.3336	4.9700e-003	1.0300e-003	56.7642
NaturalGas Mitigated	6.2700e-003	0.0570	0.0479	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	62.0755	62.0755	1.1900e-003	1.1400e-003	62.4443
NaturalGas Unmitigated	6.2700e-003	0.0570	0.0479	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	62.0755	62.0755	1.1900e-003	1.1400e-003	62.4443

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Library	1.16325e+006	6.2700e-003	0.0570	0.0479	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	62.0755	62.0755	1.1900e-003	1.1400e-003	62.4443
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>6.2700e-003</b>	<b>0.0570</b>	<b>0.0479</b>	<b>3.4000e-004</b>		<b>4.3300e-003</b>	<b>4.3300e-003</b>		<b>4.3300e-003</b>	<b>4.3300e-003</b>	<b>0.0000</b>	<b>62.0755</b>	<b>62.0755</b>	<b>1.1900e-003</b>	<b>1.1400e-003</b>	<b>62.4443</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	tons/yr										MT/yr					
Library	1.16325e+006	6.2700e-003	0.0570	0.0479	3.4000e-004		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	62.0755	62.0755	1.1900e-003	1.1400e-003	62.4443
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>6.2700e-003</b>	<b>0.0570</b>	<b>0.0479</b>	<b>3.4000e-004</b>		<b>4.3300e-003</b>	<b>4.3300e-003</b>		<b>4.3300e-003</b>	<b>4.3300e-003</b>	<b>0.0000</b>	<b>62.0755</b>	<b>62.0755</b>	<b>1.1900e-003</b>	<b>1.1400e-003</b>	<b>62.4443</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Library	355320	52.9928	4.6700e-003	9.7000e-004	53.3979
Parking Lot	22400	3.3408	2.9000e-004	6.0000e-005	3.3663
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>56.3336</b>	<b>4.9600e-003</b>	<b>1.0300e-003</b>	<b>56.7642</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Library	355320	52.9928	4.6700e-003	9.7000e-004	53.3979
Parking Lot	22400	3.3408	2.9000e-004	6.0000e-005	3.3663
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>56.3336</b>	<b>4.9600e-003</b>	<b>1.0300e-003</b>	<b>56.7642</b>

**6.0 Area Detail**

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**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2137	2.0000e-005	1.9700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8300e-003	3.8300e-003	1.0000e-005	0.0000	4.0800e-003
Unmitigated	0.2137	2.0000e-005	1.9700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8300e-003	3.8300e-003	1.0000e-005	0.0000	4.0800e-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	0.0258					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1877					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	1.9700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8300e-003	3.8300e-003	1.0000e-005	0.0000	4.0800e-003
<b>Total</b>	<b>0.2137</b>	<b>2.0000e-005</b>	<b>1.9700e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.8300e-003</b>	<b>3.8300e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>4.0800e-003</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0258					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1877					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	1.9700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8300e-003	3.8300e-003	1.0000e-005	0.0000	4.0800e-003
<b>Total</b>	<b>0.2137</b>	<b>2.0000e-005</b>	<b>1.9700e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.8300e-003</b>	<b>3.8300e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>4.0800e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.4775	0.0622	1.5200e-003	5.4853
Unmitigated	3.4775	0.0622	1.5200e-003	5.4853

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Library	1.47058 / 2.30014	2.8540	0.0481	1.1800e-003	4.4074
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0.431745 / 0.264618	0.6235	0.0141	3.4000e-004	1.0779
<b>Total</b>		<b>3.4775</b>	<b>0.0622</b>	<b>1.5200e-003</b>	<b>5.4853</b>

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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Library	1.47058 / 2.30014	2.8540	0.0481	1.1800e-003	4.4074
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0.431745 / 0.264618	0.6235	0.0141	3.4000e-004	1.0779
<b>Total</b>		<b>3.4775</b>	<b>0.0622</b>	<b>1.5200e-003</b>	<b>5.4853</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	17.2319	1.0184	0.0000	42.6913
Unmitigated	17.2319	1.0184	0.0000	42.6913

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Library	43.28	8.7855	0.5192	0.0000	21.7656
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	41.61	8.4465	0.4992	0.0000	20.9257
<b>Total</b>		<b>17.2319</b>	<b>1.0184</b>	<b>0.0000</b>	<b>42.6913</b>

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**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Library	43.28	8.7855	0.5192	0.0000	21.7656
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	41.61	8.4465	0.4992	0.0000	20.9257
<b>Total</b>		<b>17.2319</b>	<b>1.0184</b>	<b>0.0000</b>	<b>42.6913</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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## Project Site

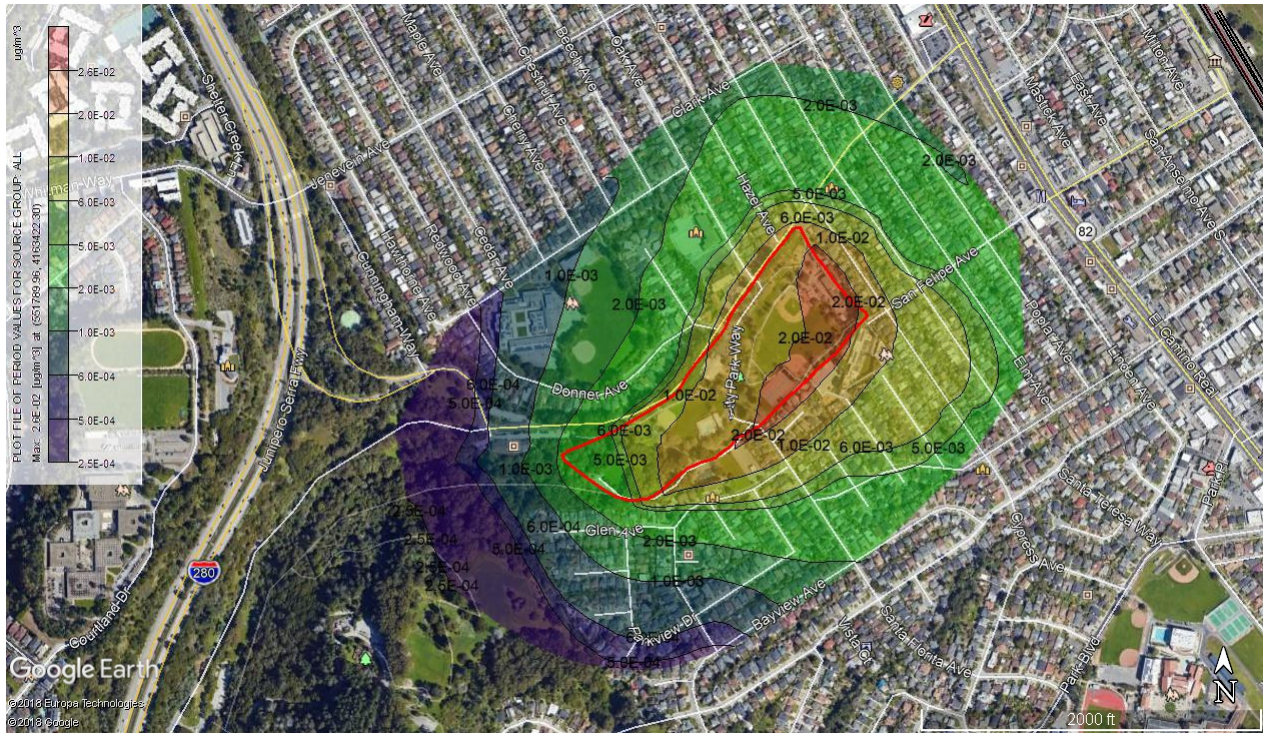


## Surrounding Sensitive Receptors

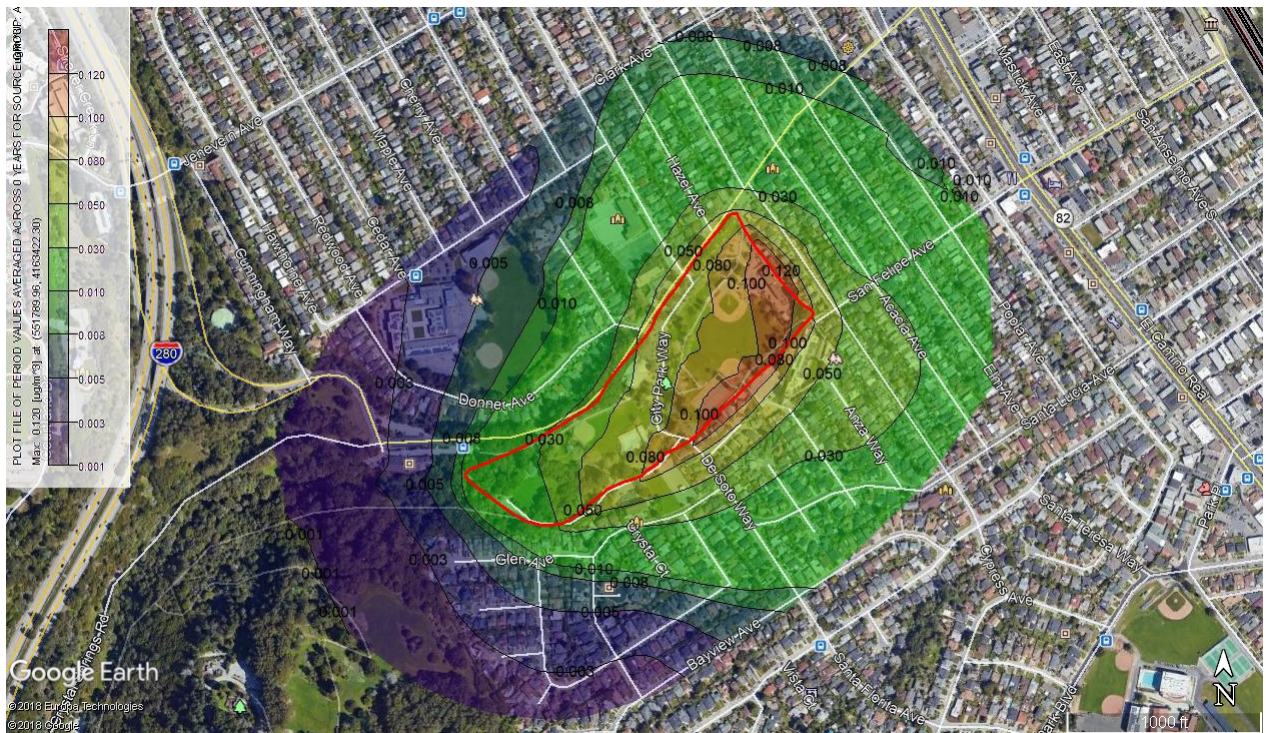




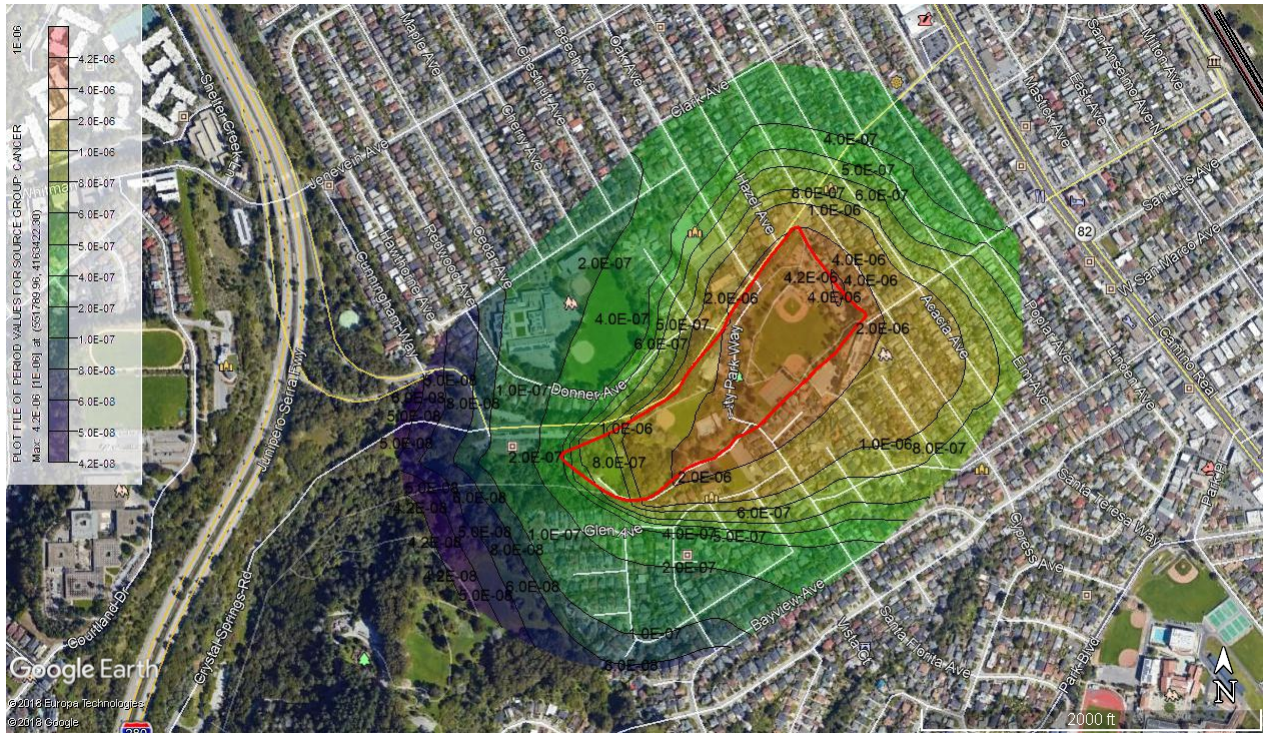
## Unmitigated Chronic Hazard Inhalation



## Unmitigated $\text{PM}_{2.5}$ Concentration



## Mitigated Cancer Risk



## Mitigated Chronic Hazard Inhalation



# Mitigated PM<sub>2.5</sub> Concentration

