

Appendix 7

Air Quality Modeling Results

788 San Antonio Road Mixed-Use Project - Bay Area AQMD Air District, Annual

788 San Antonio Road Mixed-Use Project
Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	126.00	Space	0.00	59,000.00	0
Apartments Mid Rise	102.00	Dwelling Unit	0.67	83,466.00	235
Regional Shopping Center	1.78	1000sqft	0.04	1,779.50	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2023
Utility Company	City of Palo Alto Public Utilities				
CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Adjusted CPAU has provided 100 percent carbon neutral electricity

Land Use - Changed from default based on proj info.

Construction Phase - Changed due to client information.

Trips and VMT - Project info

Demolition -

Grading - CY material provided by client.

Vehicle Trips - Trip gen rates changed to match traffic study and include reductions.

Woodstoves - No woodstoves or wood burning fireplaces.

Energy Use - Reduced by 30% per 2019 requirements.

Water And Wastewater - Reduced by 20 percent per 2019 requirements.

Solid Waste - Additional 25% diversion rate based on AB 341.

Construction Off-road Equipment Mitigation - Per BAAQMD requirements.

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	5.00	31.00
tblConstructionPhase	NumDays	100.00	379.00
tblConstructionPhase	NumDays	10.00	40.00
tblConstructionPhase	NumDays	2.00	45.00
tblConstructionPhase	NumDays	5.00	25.00
tblConstructionPhase	NumDays	1.00	6.00
tblEnergyUse	T24E	2.24	1.57
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	17.34	0.00
tblGrading	AcresOfGrading	3.00	0.50

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tblLandUse	LandUseSquareFeet	50,400.00	59,000.00
tblLandUse	LandUseSquareFeet	102,000.00	83,466.00
tblLandUse	LandUseSquareFeet	1,780.00	1,779.50
tblLandUse	LotAcreage	1.13	0.00
tblLandUse	LotAcreage	2.68	0.67
tblLandUse	Population	292.00	235.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	354.26	0
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	46.92	35.19
tblSolidWaste	SolidWasteGenerationRate	1.87	1.40
tblTripsAndVMT	HaulingTripNumber	0.00	2,521.00
tblVehicleTrips	ST_TR	6.39	4.34
tblVehicleTrips	ST_TR	49.97	563.26
tblVehicleTrips	SU_TR	5.86	3.98
tblVehicleTrips	SU_TR	25.24	284.67
tblVehicleTrips	WD_TR	6.65	4.52
tblVehicleTrips	WD_TR	42.70	481.60
tblWater	IndoorWaterUseRate	6,645,710.61	5,316,568.49
tblWater	IndoorWaterUseRate	131,849.09	105,479.27
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

2.0 Emissions Summary

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2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0328	0.4142	0.2730	8.3000e-004	0.0375	0.0151	0.0525	0.0107	0.0144	0.0250	0.0000	76.7587	76.7587	8.7400e-003	0.0000	76.9773
2021	0.1512	1.5177	1.3224	3.6100e-003	0.1380	0.0597	0.1977	0.0400	0.0551	0.0951	0.0000	330.3619	330.3619	0.0483	0.0000	331.5693
2022	0.6967	0.7704	0.8309	1.9700e-003	0.0709	0.0326	0.1036	0.0191	0.0302	0.0493	0.0000	177.0386	177.0386	0.0301	0.0000	177.7899
Maximum	0.6967	1.5177	1.3224	3.6100e-003	0.1380	0.0597	0.1977	0.0400	0.0551	0.0951	0.0000	330.3619	330.3619	0.0483	0.0000	331.5693

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0328	0.4142	0.2730	8.3000e-004	0.0285	0.0151	0.0436	7.8400e-003	0.0144	0.0222	0.0000	76.7587	76.7587	8.7400e-003	0.0000	76.9773
2021	0.1512	1.5177	1.3224	3.6100e-003	0.1324	0.0597	0.1921	0.0369	0.0551	0.0920	0.0000	330.3617	330.3617	0.0483	0.0000	331.5691
2022	0.6967	0.7704	0.8309	1.9700e-003	0.0709	0.0326	0.1036	0.0191	0.0302	0.0493	0.0000	177.0385	177.0385	0.0301	0.0000	177.7898
Maximum	0.6967	1.5177	1.3224	3.6100e-003	0.1324	0.0597	0.1921	0.0369	0.0551	0.0920	0.0000	330.3617	330.3617	0.0483	0.0000	331.5691

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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
Percent Reduction	0.00	0.00	0.00	0.00	5.90	0.00	4.11	8.48	0.00	3.48	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	10-1-2020	12-31-2020	0.4355	0.4355
2	1-1-2021	3-31-2021	0.5415	0.5415
3	4-1-2021	6-30-2021	0.3737	0.3737
4	7-1-2021	9-30-2021	0.3778	0.3778
5	10-1-2021	12-31-2021	0.3806	0.3806
6	1-1-2022	3-31-2022	0.3333	0.3333
7	4-1-2022	6-30-2022	0.6421	0.6421
8	7-1-2022	9-30-2022	0.4814	0.4814
		Highest	0.6421	0.6421

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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4208	0.0104	0.7594	5.0000e-005		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	3.1495	3.1495	1.2300e-003	4.0000e-005	3.1907
Energy	4.8500e-003	0.0414	0.0178	2.6000e-004		3.3500e-003	3.3500e-003		3.3500e-003	3.3500e-003	0.0000	47.9575	47.9575	9.2000e-004	8.8000e-004	48.2425
Mobile	0.2747	1.1899	2.9256	0.0105	0.9275	8.6900e-003	0.9362	0.2489	8.1100e-003	0.2570	0.0000	965.9223	965.9223	0.0348	0.0000	966.7914
Waste						0.0000	0.0000		0.0000	0.0000	7.4274	0.0000	7.4274	0.4390	0.0000	18.4012
Water						0.0000	0.0000		0.0000	0.0000	1.7202	0.0000	1.7202	0.1767	4.1700e-003	7.3803
Total	0.7004	1.2417	3.7028	0.0108	0.9275	0.0164	0.9438	0.2489	0.0158	0.2647	9.1476	1,017.0293	1,026.1769	0.6525	5.0900e-003	1,044.0060

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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	0.4208	0.0104	0.7594	5.0000e-005		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	3.1495	3.1495	1.2300e-003	4.0000e-005	3.1907
Energy	4.8500e-003	0.0414	0.0178	2.6000e-004		3.3500e-003	3.3500e-003		3.3500e-003	3.3500e-003	0.0000	47.9575	47.9575	9.2000e-004	8.8000e-004	48.2425
Mobile	0.2388	0.9711	2.0811	6.5400e-003	0.5440	5.6200e-003	0.5496	0.1460	5.2400e-003	0.1512	0.0000	601.6310	601.6310	0.0249	0.0000	602.2521
Waste						0.0000	0.0000		0.0000	0.0000	7.4274	0.0000	7.4274	0.4390	0.0000	18.4012
Water						0.0000	0.0000		0.0000	0.0000	1.7202	0.0000	1.7202	0.1767	4.1700e-003	7.3803
Total	0.6644	1.0229	2.8583	6.8500e-003	0.5440	0.0133	0.5573	0.1460	0.0129	0.1589	9.1476	652.7379	661.8855	0.6426	5.0900e-003	679.4668

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	5.13	17.62	22.81	36.69	41.35	18.75	40.96	41.35	18.18	39.97	0.00	35.82	35.50	1.52	0.00	34.92

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	10/1/2020	11/25/2020	5	40	
2	Site Preparation	Site Preparation	11/30/2020	12/7/2020	5	6	
3	Grading	Grading	12/8/2020	2/8/2021	5	45	
4	Building Construction	Building Construction	2/9/2021	7/22/2022	5	379	
5	Architectural Coating	Architectural Coating	6/10/2022	7/22/2022	5	31	
6	Paving	Paving	7/25/2022	8/26/2022	5	25	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 169,019; Residential Outdoor: 56,340; Non-Residential Indoor: 2,669; Non-Residential Outdoor: 890; Striped Parking Area: 3,540 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	85.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	2,521.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	99.00	21.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020

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					9.2000e-003	0.0000	9.2000e-003	1.3900e-003	0.0000	1.3900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0174	0.1575	0.1525	2.4000e-004		9.3400e-003	9.3400e-003		8.9100e-003	8.9100e-003	0.0000	20.8151	20.8151	3.9400e-003	0.0000	20.9135
Total	0.0174	0.1575	0.1525	2.4000e-004	9.2000e-003	9.3400e-003	0.0185	1.3900e-003	8.9100e-003	0.0103	0.0000	20.8151	20.8151	3.9400e-003	0.0000	20.9135

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3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.5000e-004	0.0124	2.5000e-003	3.0000e-005	7.2000e-004	4.0000e-005	7.6000e-004	2.0000e-004	4.0000e-005	2.4000e-004	0.0000	3.2571	3.2571	1.7000e-004	0.0000	3.2613
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	6.6000e-004	4.7000e-004	4.9100e-003	2.0000e-005	1.5800e-003	1.0000e-005	1.5900e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3846	1.3846	3.0000e-005	0.0000	1.3854
Total	1.0100e-003	0.0129	7.4100e-003	5.0000e-005	2.3000e-003	5.0000e-005	2.3500e-003	6.2000e-004	5.0000e-005	6.7000e-004	0.0000	4.6417	4.6417	2.0000e-004	0.0000	4.6467

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.1400e-003	0.0000	4.1400e-003	6.3000e-004	0.0000	6.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0174	0.1575	0.1525	2.4000e-004		9.3400e-003	9.3400e-003		8.9100e-003	8.9100e-003	0.0000	20.8151	20.8151	3.9400e-003	0.0000	20.9135
Total	0.0174	0.1575	0.1525	2.4000e-004	4.1400e-003	9.3400e-003	0.0135	6.3000e-004	8.9100e-003	9.5400e-003	0.0000	20.8151	20.8151	3.9400e-003	0.0000	20.9135

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3.2 Demolition - 2020

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	3.5000e-004	0.0124	2.5000e-003	3.0000e-005	7.2000e-004	4.0000e-005	7.6000e-004	2.0000e-004	4.0000e-005	2.4000e-004	0.0000	3.2571	3.2571	1.7000e-004	0.0000	3.2613
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	6.6000e-004	4.7000e-004	4.9100e-003	2.0000e-005	1.5800e-003	1.0000e-005	1.5900e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3846	1.3846	3.0000e-005	0.0000	1.3854
Total	1.0100e-003	0.0129	7.4100e-003	5.0000e-005	2.3000e-003	5.0000e-005	2.3500e-003	6.2000e-004	5.0000e-005	6.7000e-004	0.0000	4.6417	4.6417	2.0000e-004	0.0000	4.6467

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0600e-003	0.0253	0.0123	3.0000e-005		1.0100e-003	1.0100e-003		9.3000e-004	9.3000e-004	0.0000	2.5678	2.5678	8.3000e-004	0.0000	2.5885
Total	2.0600e-003	0.0253	0.0123	3.0000e-005	2.7000e-004	1.0100e-003	1.2800e-003	3.0000e-005	9.3000e-004	9.6000e-004	0.0000	2.5678	2.5678	8.3000e-004	0.0000	2.5885

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3.3 Site Preparation - 2020

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	5.0000e-005	4.0000e-005	3.7000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1038	0.1038	0.0000	0.0000	0.1039
Total	5.0000e-005	4.0000e-005	3.7000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1038	0.1038	0.0000	0.0000	0.1039

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2000e-004	0.0000	1.2000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0600e-003	0.0253	0.0123	3.0000e-005		1.0100e-003	1.0100e-003		9.3000e-004	9.3000e-004	0.0000	2.5678	2.5678	8.3000e-004	0.0000	2.5885
Total	2.0600e-003	0.0253	0.0123	3.0000e-005	1.2000e-004	1.0100e-003	1.1300e-003	1.0000e-005	9.3000e-004	9.4000e-004	0.0000	2.5678	2.5678	8.3000e-004	0.0000	2.5885

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3.3 Site Preparation - 2020

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	5.0000e-005	4.0000e-005	3.7000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1038	0.1038	0.0000	0.0000	0.1039
Total	5.0000e-005	4.0000e-005	3.7000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1038	0.1038	0.0000	0.0000	0.1039

3.4 Grading - 2020

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					6.7700e-003	0.0000	6.7700e-003	3.7200e-003	0.0000	3.7200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.8100e-003	0.0709	0.0686	1.1000e-004		4.2000e-003	4.2000e-003		4.0100e-003	4.0100e-003	0.0000	9.3668	9.3668	1.7700e-003	0.0000	9.4111
Total	7.8100e-003	0.0709	0.0686	1.1000e-004	6.7700e-003	4.2000e-003	0.0110	3.7200e-003	4.0100e-003	7.7300e-003	0.0000	9.3668	9.3668	1.7700e-003	0.0000	9.4111

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3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.2100e-003	0.1474	0.0296	4.0000e-004	0.0181	4.8000e-004	0.0186	4.6900e-003	4.5000e-004	5.1400e-003	0.0000	38.6405	38.6405	1.9900e-003	0.0000	38.6903
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.1000e-004	2.2100e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6231	0.6231	2.0000e-005	0.0000	0.6234
Total	4.5100e-003	0.1476	0.0318	4.1000e-004	0.0188	4.8000e-004	0.0193	4.8800e-003	4.5000e-004	5.3300e-003	0.0000	39.2636	39.2636	2.0100e-003	0.0000	39.3137

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					3.0500e-003	0.0000	3.0500e-003	1.6800e-003	0.0000	1.6800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.8100e-003	0.0709	0.0686	1.1000e-004		4.2000e-003	4.2000e-003		4.0100e-003	4.0100e-003	0.0000	9.3668	9.3668	1.7700e-003	0.0000	9.4111
Total	7.8100e-003	0.0709	0.0686	1.1000e-004	3.0500e-003	4.2000e-003	7.2500e-003	1.6800e-003	4.0100e-003	5.6900e-003	0.0000	9.3668	9.3668	1.7700e-003	0.0000	9.4111

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3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.2100e-003	0.1474	0.0296	4.0000e-004	0.0181	4.8000e-004	0.0186	4.6900e-003	4.5000e-004	5.1400e-003	0.0000	38.6405	38.6405	1.9900e-003	0.0000	38.6903
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	2.1000e-004	2.2100e-003	1.0000e-005	7.1000e-004	0.0000	7.2000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.6231	0.6231	2.0000e-005	0.0000	0.6234
Total	4.5100e-003	0.1476	0.0318	4.1000e-004	0.0188	4.8000e-004	0.0193	4.8800e-003	4.5000e-004	5.3300e-003	0.0000	39.2636	39.2636	2.0100e-003	0.0000	39.3137

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					0.0102	0.0000	0.0102	5.5900e-003	0.0000	5.5900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0108	0.0979	0.1022	1.6000e-004		5.5000e-003	5.5000e-003		5.2500e-003	5.2500e-003	0.0000	14.0526	14.0526	2.6200e-003	0.0000	14.1181
Total	0.0108	0.0979	0.1022	1.6000e-004	0.0102	5.5000e-003	0.0157	5.5900e-003	5.2500e-003	0.0108	0.0000	14.0526	14.0526	2.6200e-003	0.0000	14.1181

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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	5.9600e-003	0.2041	0.0435	5.9000e-004	0.0192	6.3000e-004	0.0198	5.0800e-003	6.0000e-004	5.6800e-003	0.0000	57.2174	57.2174	2.9200e-003	0.0000	57.2904
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	4.1000e-004	2.9000e-004	3.0300e-003	1.0000e-005	1.0700e-003	1.0000e-005	1.0700e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.9018	0.9018	2.0000e-005	0.0000	0.9023
Total	6.3700e-003	0.2044	0.0465	6.0000e-004	0.0202	6.4000e-004	0.0209	5.3600e-003	6.1000e-004	5.9700e-003	0.0000	58.1192	58.1192	2.9400e-003	0.0000	58.1926

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.5700e-003	0.0000	4.5700e-003	2.5100e-003	0.0000	2.5100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0108	0.0979	0.1022	1.6000e-004		5.5000e-003	5.5000e-003		5.2500e-003	5.2500e-003	0.0000	14.0526	14.0526	2.6200e-003	0.0000	14.1181
Total	0.0108	0.0979	0.1022	1.6000e-004	4.5700e-003	5.5000e-003	0.0101	2.5100e-003	5.2500e-003	7.7600e-003	0.0000	14.0526	14.0526	2.6200e-003	0.0000	14.1181

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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	5.9600e-003	0.2041	0.0435	5.9000e-004	0.0192	6.3000e-004	0.0198	5.0800e-003	6.0000e-004	5.6800e-003	0.0000	57.2174	57.2174	2.9200e-003	0.0000	57.2904
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	4.1000e-004	2.9000e-004	3.0300e-003	1.0000e-005	1.0700e-003	1.0000e-005	1.0700e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.9018	0.9018	2.0000e-005	0.0000	0.9023
Total	6.3700e-003	0.2044	0.0465	6.0000e-004	0.0202	6.4000e-004	0.0209	5.3600e-003	6.1000e-004	5.9700e-003	0.0000	58.1192	58.1192	2.9400e-003	0.0000	58.1926

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	0.0907	0.9342	0.8499	1.3300e-003		0.0524	0.0524		0.0482	0.0482	0.0000	117.0960	117.0960	0.0379	0.0000	118.0428
Total	0.0907	0.9342	0.8499	1.3300e-003		0.0524	0.0524		0.0482	0.0482	0.0000	117.0960	117.0960	0.0379	0.0000	118.0428

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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	7.8000e-003	0.2566	0.0641	6.6000e-004	0.0161	5.6000e-004	0.0167	4.6600e-003	5.3000e-004	5.1900e-003	0.0000	63.7208	63.7208	3.1300e-003	0.0000	63.7991
Worker	0.0356	0.0245	0.2598	8.6000e-004	0.0915	6.0000e-004	0.0921	0.0244	5.5000e-004	0.0249	0.0000	77.3733	77.3733	1.7300e-003	0.0000	77.4167
Total	0.0434	0.2812	0.3239	1.5200e-003	0.1076	1.1600e-003	0.1088	0.0290	1.0800e-003	0.0301	0.0000	141.0941	141.0941	4.8600e-003	0.0000	141.2158

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	0.0907	0.9342	0.8499	1.3300e-003		0.0524	0.0524		0.0482	0.0482	0.0000	117.0959	117.0959	0.0379	0.0000	118.0426
Total	0.0907	0.9342	0.8499	1.3300e-003		0.0524	0.0524		0.0482	0.0482	0.0000	117.0959	117.0959	0.0379	0.0000	118.0426

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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	7.8000e-003	0.2566	0.0641	6.6000e-004	0.0161	5.6000e-004	0.0167	4.6600e-003	5.3000e-004	5.1900e-003	0.0000	63.7208	63.7208	3.1300e-003	0.0000	63.7991
Worker	0.0356	0.0245	0.2598	8.6000e-004	0.0915	6.0000e-004	0.0921	0.0244	5.5000e-004	0.0249	0.0000	77.3733	77.3733	1.7300e-003	0.0000	77.4167
Total	0.0434	0.2812	0.3239	1.5200e-003	0.1076	1.1600e-003	0.1088	0.0290	1.0800e-003	0.0301	0.0000	141.0941	141.0941	4.8600e-003	0.0000	141.2158

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	0.0498	0.5094	0.5186	8.3000e-004		0.0270	0.0270		0.0248	0.0248	0.0000	72.6071	72.6071	0.0235	0.0000	73.1941
Total	0.0498	0.5094	0.5186	8.3000e-004		0.0270	0.0270		0.0248	0.0248	0.0000	72.6071	72.6071	0.0235	0.0000	73.1941

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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	4.5100e-003	0.1506	0.0373	4.1000e-004	9.9800e-003	3.0000e-004	0.0103	2.8900e-003	2.9000e-004	3.1700e-003	0.0000	39.0980	39.0980	1.8600e-003	0.0000	39.1443
Worker	0.0205	0.0136	0.1479	5.1000e-004	0.0567	3.6000e-004	0.0571	0.0151	3.3000e-004	0.0154	0.0000	46.1873	46.1873	9.6000e-004	0.0000	46.2114
Total	0.0250	0.1642	0.1853	9.2000e-004	0.0667	6.6000e-004	0.0674	0.0180	6.2000e-004	0.0186	0.0000	85.2852	85.2852	2.8200e-003	0.0000	85.3557

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	0.0498	0.5094	0.5186	8.3000e-004		0.0270	0.0270		0.0248	0.0248	0.0000	72.6070	72.6070	0.0235	0.0000	73.1941
Total	0.0498	0.5094	0.5186	8.3000e-004		0.0270	0.0270		0.0248	0.0248	0.0000	72.6070	72.6070	0.0235	0.0000	73.1941

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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	4.5100e-003	0.1506	0.0373	4.1000e-004	9.9800e-003	3.0000e-004	0.0103	2.8900e-003	2.9000e-004	3.1700e-003	0.0000	39.0980	39.0980	1.8600e-003	0.0000	39.1443
Worker	0.0205	0.0136	0.1479	5.1000e-004	0.0567	3.6000e-004	0.0571	0.0151	3.3000e-004	0.0154	0.0000	46.1873	46.1873	9.6000e-004	0.0000	46.2114
Total	0.0250	0.1642	0.1853	9.2000e-004	0.0667	6.6000e-004	0.0674	0.0180	6.2000e-004	0.0186	0.0000	85.2852	85.2852	2.8200e-003	0.0000	85.3557

3.6 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	0.6091					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1700e-003	0.0218	0.0281	5.0000e-005		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003	0.0000	3.9575	3.9575	2.6000e-004	0.0000	3.9640
Total	0.6123	0.0218	0.0281	5.0000e-005		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003	0.0000	3.9575	3.9575	2.6000e-004	0.0000	3.9640

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3.6 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	8.9000e-004	5.9000e-004	6.3900e-003	2.0000e-005	2.4500e-003	2.0000e-005	2.4700e-003	6.5000e-004	1.0000e-005	6.7000e-004	0.0000	1.9949	1.9949	4.0000e-005	0.0000	1.9959
Total	8.9000e-004	5.9000e-004	6.3900e-003	2.0000e-005	2.4500e-003	2.0000e-005	2.4700e-003	6.5000e-004	1.0000e-005	6.7000e-004	0.0000	1.9949	1.9949	4.0000e-005	0.0000	1.9959

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	0.6091					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1700e-003	0.0218	0.0281	5.0000e-005		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003	0.0000	3.9575	3.9575	2.6000e-004	0.0000	3.9640
Total	0.6123	0.0218	0.0281	5.0000e-005		1.2700e-003	1.2700e-003		1.2700e-003	1.2700e-003	0.0000	3.9575	3.9575	2.6000e-004	0.0000	3.9640

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3.6 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	8.9000e-004	5.9000e-004	6.3900e-003	2.0000e-005	2.4500e-003	2.0000e-005	2.4700e-003	6.5000e-004	1.0000e-005	6.7000e-004	0.0000	1.9949	1.9949	4.0000e-005	0.0000	1.9959
Total	8.9000e-004	5.9000e-004	6.3900e-003	2.0000e-005	2.4500e-003	2.0000e-005	2.4700e-003	6.5000e-004	1.0000e-005	6.7000e-004	0.0000	1.9949	1.9949	4.0000e-005	0.0000	1.9959

3.7 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.0900e-003	0.0740	0.0879	1.4000e-004		3.7000e-003	3.7000e-003		3.4500e-003	3.4500e-003	0.0000	11.7461	11.7461	3.4200e-003	0.0000	11.8316
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	8.0900e-003	0.0740	0.0879	1.4000e-004		3.7000e-003	3.7000e-003		3.4500e-003	3.4500e-003	0.0000	11.7461	11.7461	3.4200e-003	0.0000	11.8316

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3.7 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
Total	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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.0900e-003	0.0740	0.0879	1.4000e-004		3.7000e-003	3.7000e-003		3.4500e-003	3.4500e-003	0.0000	11.7460	11.7460	3.4200e-003	0.0000	11.8316
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	8.0900e-003	0.0740	0.0879	1.4000e-004		3.7000e-003	3.7000e-003		3.4500e-003	3.4500e-003	0.0000	11.7460	11.7460	3.4200e-003	0.0000	11.8316

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3.7 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
Total	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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Transit Accessibility

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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	0.2388	0.9711	2.0811	6.5400e-003	0.5440	5.6200e-003	0.5496	0.1460	5.2400e-003	0.1512	0.0000	601.6310	601.6310	0.0249	0.0000	602.2521
Unmitigated	0.2747	1.1899	2.9256	0.0105	0.9275	8.6900e-003	0.9362	0.2489	8.1100e-003	0.2570	0.0000	965.9223	965.9223	0.0348	0.0000	966.7914

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	461.04	442.68	405.96	1,040,590	610,308
Enclosed Parking with Elevator	0.00	0.00	0.00		
Regional Shopping Center	857.25	1,002.60	506.71	1,451,625	851,381
Total	1,318.29	1,445.28	912.67	2,492,215	1,461,689

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
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749
Enclosed Parking with Elevator	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749
Regional Shopping Center	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749

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	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	4.8500e-003	0.0414	0.0178	2.6000e-004		3.3500e-003	3.3500e-003		3.3500e-003	3.3500e-003	0.0000	47.9575	47.9575	9.2000e-004	8.8000e-004	48.2425
NaturalGas Unmitigated	4.8500e-003	0.0414	0.0178	2.6000e-004		3.3500e-003	3.3500e-003		3.3500e-003	3.3500e-003	0.0000	47.9575	47.9575	9.2000e-004	8.8000e-004	48.2425

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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					
Apartments Mid Rise	890504	4.8000e-003	0.0410	0.0175	2.6000e-004		3.3200e-003	3.3200e-003		3.3200e-003	3.3200e-003	0.0000	47.5207	47.5207	9.1000e-004	8.7000e-004	47.8031
Enclosed Parking with Elevator	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
Regional Shopping Center	8185.7	4.0000e-005	4.0000e-004	3.4000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4368	0.4368	1.0000e-005	1.0000e-005	0.4394
Total		4.8400e-003	0.0414	0.0178	2.6000e-004		3.3500e-003	3.3500e-003		3.3500e-003	3.3500e-003	0.0000	47.9575	47.9575	9.2000e-004	8.8000e-004	48.2425

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					
Apartments Mid Rise	890504	4.8000e-003	0.0410	0.0175	2.6000e-004		3.3200e-003	3.3200e-003		3.3200e-003	3.3200e-003	0.0000	47.5207	47.5207	9.1000e-004	8.7000e-004	47.8031
Enclosed Parking with Elevator	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
Regional Shopping Center	8185.7	4.0000e-005	4.0000e-004	3.4000e-004	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.4368	0.4368	1.0000e-005	1.0000e-005	0.4394
Total		4.8400e-003	0.0414	0.0178	2.6000e-004		3.3500e-003	3.3500e-003		3.3500e-003	3.3500e-003	0.0000	47.9575	47.9575	9.2000e-004	8.8000e-004	48.2425

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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			
Apartments Mid Rise	430643	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	345740	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	17456.9	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	430643	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	345740	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	17456.9	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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	0.4208	0.0104	0.7594	5.0000e-005		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	3.1495	3.1495	1.2300e-003	4.0000e-005	3.1907
Unmitigated	0.4208	0.0104	0.7594	5.0000e-005		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	3.1495	3.1495	1.2300e-003	4.0000e-005	3.1907

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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	0.0609					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3367					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.9000e-004	1.6500e-003	7.0000e-004	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.9100	1.9100	4.0000e-005	4.0000e-005	1.9214
Landscaping	0.0229	8.7400e-003	0.7587	4.0000e-005		4.2000e-003	4.2000e-003		4.2000e-003	4.2000e-003	0.0000	1.2394	1.2394	1.2000e-003	0.0000	1.2693
Total	0.4208	0.0104	0.7594	5.0000e-005		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	3.1495	3.1495	1.2400e-003	4.0000e-005	3.1907

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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	0.0609					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3367					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.9000e-004	1.6500e-003	7.0000e-004	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.9100	1.9100	4.0000e-005	4.0000e-005	1.9214
Landscaping	0.0229	8.7400e-003	0.7587	4.0000e-005		4.2000e-003	4.2000e-003		4.2000e-003	4.2000e-003	0.0000	1.2394	1.2394	1.2000e-003	0.0000	1.2693
Total	0.4208	0.0104	0.7594	5.0000e-005		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	3.1495	3.1495	1.2400e-003	4.0000e-005	3.1907

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.7202	0.1767	4.1700e-003	7.3803
Unmitigated	1.7202	0.1767	4.1700e-003	7.3803

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	5.31657 / 4.18969	1.6867	0.1732	4.0900e-003	7.2367
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.105479 / 0.0808107	0.0335	3.4400e-003	8.0000e-005	0.1436
Total		1.7202	0.1767	4.1700e-003	7.3803

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	5.31657 / 4.18969	1.6867	0.1732	4.0900e-003	7.2367
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	0.105479 / 0.0808107	0.0335	3.4400e-003	8.0000e-005	0.1436
Total		1.7202	0.1767	4.1700e-003	7.3803

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	7.4274	0.4390	0.0000	18.4012
Unmitigated	7.4274	0.4390	0.0000	18.4012

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	35.19	7.1433	0.4222	0.0000	17.6971
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.4	0.2842	0.0168	0.0000	0.7041
Total		7.4274	0.4389	0.0000	18.4012

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	35.19	7.1433	0.4222	0.0000	17.6971
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Regional Shopping Center	1.4	0.2842	0.0168	0.0000	0.7041
Total		7.4274	0.4389	0.0000	18.4012

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

788 San Antonio Road Mixed-Use Project - Bay Area AQMD Air District, Winter

788 San Antonio Road Mixed-Use Project
Bay Area AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	126.00	Space	0.00	59,000.00	0
Apartments Mid Rise	102.00	Dwelling Unit	0.67	83,466.00	235
Regional Shopping Center	1.78	1000sqft	0.04	1,779.50	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2023
Utility Company	City of Palo Alto Public Utilities				
CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0

1.3 User Entered Comments & Non-Default Data

788 San Antonio Road Mixed-Use Project - Bay Area AQMD Air District, Winter

Project Characteristics - Adjusted CPAU has provided 100 percent carbon neutral electricity

Land Use - Changed from default based on proj info.

Construction Phase - Changed due to client information.

Trips and VMT - Project info

Demolition -

Grading - CY material provided by client.

Vehicle Trips - Trip gen rates changed to match traffic study and include reductions.

Woodstoves - No woodstoves or wood burning fireplaces.

Energy Use - Reduced by 30% per 2019 requirements.

Water And Wastewater - Reduced by 20 percent per 2019 requirements.

Solid Waste - Additional 25% diversion rate based on AB 341.

Construction Off-road Equipment Mitigation - Per BAAQMD requirements.

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	5.00	31.00
tblConstructionPhase	NumDays	100.00	379.00
tblConstructionPhase	NumDays	10.00	40.00
tblConstructionPhase	NumDays	2.00	45.00
tblConstructionPhase	NumDays	5.00	25.00
tblConstructionPhase	NumDays	1.00	6.00
tblEnergyUse	T24E	2.24	1.57
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	17.34	0.00
tblGrading	AcresOfGrading	3.00	0.50

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tblLandUse	LandUseSquareFeet	50,400.00	59,000.00
tblLandUse	LandUseSquareFeet	102,000.00	83,466.00
tblLandUse	LandUseSquareFeet	1,780.00	1,779.50
tblLandUse	LotAcreage	1.13	0.00
tblLandUse	LotAcreage	2.68	0.67
tblLandUse	Population	292.00	235.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	354.26	0
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	46.92	35.19
tblSolidWaste	SolidWasteGenerationRate	1.87	1.40
tblTripsAndVMT	HaulingTripNumber	0.00	2,521.00
tblVehicleTrips	ST_TR	6.39	4.34
tblVehicleTrips	ST_TR	49.97	563.26
tblVehicleTrips	SU_TR	5.86	3.98
tblVehicleTrips	SU_TR	25.24	284.67
tblVehicleTrips	WD_TR	6.65	4.52
tblVehicleTrips	WD_TR	42.70	481.60
tblWater	IndoorWaterUseRate	6,645,710.61	5,316,568.49
tblWater	IndoorWaterUseRate	131,849.09	105,479.27
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

2.0 Emissions Summary

788 San Antonio Road Mixed-Use Project - Bay Area AQMD Air District, Winter

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	1.3791	24.3399	11.3080	0.0566	2.9246	0.5211	3.4457	0.9765	0.4972	1.4737	0.0000	5,909.0647	5,909.0647	0.4692	0.0000	5,920.7939
2021	1.2788	22.4463	11.1536	0.0559	2.3075	0.4575	2.7626	0.8250	0.4343	1.2593	0.0000	5,846.2016	5,846.2016	0.4603	0.0000	5,857.7096
2022	40.6328	10.7542	12.0288	0.0283	1.1197	0.4639	1.5836	0.3002	0.4335	0.7337	0.0000	2,807.2716	2,807.2716	0.4224	0.0000	2,817.8311
Maximum	40.6328	24.3399	12.0288	0.0566	2.9246	0.5211	3.4457	0.9765	0.4972	1.4737	0.0000	5,909.0647	5,909.0647	0.4692	0.0000	5,920.7939

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	1.3791	24.3399	11.3080	0.0566	2.5106	0.5211	3.0317	0.7489	0.4972	1.2461	0.0000	5,909.0647	5,909.0647	0.4692	0.0000	5,920.7939
2021	1.2788	22.4463	11.1536	0.0559	1.8934	0.4575	2.3486	0.5974	0.4343	1.0318	0.0000	5,846.2016	5,846.2016	0.4603	0.0000	5,857.7096
2022	40.6328	10.7542	12.0288	0.0283	1.1197	0.4639	1.5836	0.3002	0.4335	0.7337	0.0000	2,807.2716	2,807.2716	0.4224	0.0000	2,817.8311
Maximum	40.6328	24.3399	12.0288	0.0566	2.5106	0.5211	3.0317	0.7489	0.4972	1.2461	0.0000	5,909.0647	5,909.0647	0.4692	0.0000	5,920.7939

788 San Antonio Road Mixed-Use Project - 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
Percent Reduction	0.00	0.00	0.00	0.00	13.04	0.00	10.63	21.66	0.00	13.13	0.00	0.00	0.00	0.00	0.00	0.00

788 San Antonio Road Mixed-Use Project - 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	2.4684	0.3932	8.5561	2.3400e-003		0.0706	0.0706		0.0706	0.0706	0.0000	393.1803	393.1803	0.0219	6.9300e-003	395.7927
Energy	0.0266	0.2270	0.0975	1.4500e-003		0.0184	0.0184		0.0184	0.0184		289.6663	289.6663	5.5500e-003	5.3100e-003	291.3876
Mobile	1.7033	7.5765	19.2166	0.0648	5.9964	0.0544	6.0508	1.6042	0.0508	1.6550		6,565.6394	6,565.6394	0.2460		6,571.7899
Total	4.1982	8.1968	27.8701	0.0686	5.9964	0.1433	6.1398	1.6042	0.1397	1.7439	0.0000	7,248.4860	7,248.4860	0.2735	0.0122	7,258.9702

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	2.4684	0.3932	8.5561	2.3400e-003		0.0706	0.0706		0.0706	0.0706	0.0000	393.1803	393.1803	0.0219	6.9300e-003	395.7927
Energy	0.0266	0.2270	0.0975	1.4500e-003		0.0184	0.0184		0.0184	0.0184		289.6663	289.6663	5.5500e-003	5.3100e-003	291.3876
Mobile	1.4779	6.1549	13.9405	0.0403	3.5169	0.0353	3.5522	0.9409	0.0329	0.9738		4,081.5297	4,081.5297	0.1780		4,085.9807
Total	3.9728	6.7752	22.5941	0.0441	3.5169	0.1242	3.6411	0.9409	0.1218	1.0627	0.0000	4,764.3763	4,764.3763	0.2055	0.0122	4,773.1610

788 San Antonio Road Mixed-Use Project - 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
Percent Reduction	5.37	17.34	18.93	35.78	41.35	13.34	40.70	41.35	12.79	39.06	0.00	34.27	34.27	24.86	0.00	34.24

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/1/2020	11/25/2020	5	40	
2	Site Preparation	Site Preparation	11/30/2020	12/7/2020	5	6	
3	Grading	Grading	12/8/2020	2/8/2021	5	45	
4	Building Construction	Building Construction	2/9/2021	7/22/2022	5	379	
5	Architectural Coating	Architectural Coating	6/10/2022	7/22/2022	5	31	
6	Paving	Paving	7/25/2022	8/26/2022	5	25	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 169,019; Residential Outdoor: 56,340; Non-Residential Indoor: 2,669; Non-Residential Outdoor: 890; Striped Parking Area: 3,540 (Architectural Coating – sqft)

OffRoad Equipment

788 San Antonio Road Mixed-Use Project - Bay Area AQMD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	85.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	2,521.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	99.00	21.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

788 San Antonio Road Mixed-Use Project - Bay Area AQMD Air District, Winter

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020

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					0.4602	0.0000	0.4602	0.0697	0.0000	0.0697			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457		1,147.235 2	1,147.235 2	0.2169		1,152.657 8
Total	0.8674	7.8729	7.6226	0.0120	0.4602	0.4672	0.9274	0.0697	0.4457	0.5154		1,147.235 2	1,147.235 2	0.2169		1,152.657 8

788 San Antonio Road Mixed-Use Project - Bay Area AQMD Air District, Winter

3.2 Demolition - 2020

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	0.0180	0.6236	0.1302	1.6600e-003	0.0371	2.0200e-003	0.0392	0.0102	1.9400e-003	0.0121		177.7549	177.7549	9.5000e-003		177.9924
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	0.0368	0.0260	0.2520	7.6000e-004	0.0822	5.3000e-004	0.0827	0.0218	4.9000e-004	0.0223		75.6065	75.6065	1.8500e-003		75.6528
Total	0.0548	0.6496	0.3822	2.4200e-003	0.1193	2.5500e-003	0.1218	0.0320	2.4300e-003	0.0344		253.3614	253.3614	0.0114		253.6451

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2071	0.0000	0.2071	0.0314	0.0000	0.0314			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578
Total	0.8674	7.8729	7.6226	0.0120	0.2071	0.4672	0.6743	0.0314	0.4457	0.4770	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578

788 San Antonio Road Mixed-Use Project - Bay Area AQMD Air District, Winter

3.2 Demolition - 2020

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	0.0180	0.6236	0.1302	1.6600e-003	0.0371	2.0200e-003	0.0392	0.0102	1.9400e-003	0.0121		177.7549	177.7549	9.5000e-003		177.9924
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	0.0368	0.0260	0.2520	7.6000e-004	0.0822	5.3000e-004	0.0827	0.0218	4.9000e-004	0.0223		75.6065	75.6065	1.8500e-003		75.6528
Total	0.0548	0.6496	0.3822	2.4200e-003	0.1193	2.5500e-003	0.1218	0.0320	2.4300e-003	0.0344		253.3614	253.3614	0.0114		253.6451

3.3 Site Preparation - 2020

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					0.0884	0.0000	0.0884	9.5400e-003	0.0000	9.5400e-003			0.0000			0.0000
Off-Road	0.6853	8.4307	4.0942	9.7400e-003		0.3353	0.3353		0.3085	0.3085		943.4872	943.4872	0.3051		951.1158
Total	0.6853	8.4307	4.0942	9.7400e-003	0.0884	0.3353	0.4237	9.5400e-003	0.3085	0.3181		943.4872	943.4872	0.3051		951.1158

788 San Antonio Road Mixed-Use Project - Bay Area AQMD Air District, Winter

3.3 Site Preparation - 2020

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	0.0184	0.0130	0.1260	3.8000e-004	0.0411	2.7000e-004	0.0413	0.0109	2.5000e-004	0.0111		37.8033	37.8033	9.2000e-004		37.8264
Total	0.0184	0.0130	0.1260	3.8000e-004	0.0411	2.7000e-004	0.0413	0.0109	2.5000e-004	0.0111		37.8033	37.8033	9.2000e-004		37.8264

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0398	0.0000	0.0398	4.2900e-003	0.0000	4.2900e-003			0.0000			0.0000
Off-Road	0.6853	8.4307	4.0942	9.7400e-003		0.3353	0.3353		0.3085	0.3085	0.0000	943.4872	943.4872	0.3051		951.1158
Total	0.6853	8.4307	4.0942	9.7400e-003	0.0398	0.3353	0.3751	4.2900e-003	0.3085	0.3128	0.0000	943.4872	943.4872	0.3051		951.1158

788 San Antonio Road Mixed-Use Project - Bay Area AQMD Air District, Winter

3.3 Site Preparation - 2020

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	0.0184	0.0130	0.1260	3.8000e-004	0.0411	2.7000e-004	0.0413	0.0109	2.5000e-004	0.0111		37.8033	37.8033	9.2000e-004		37.8264
Total	0.0184	0.0130	0.1260	3.8000e-004	0.0411	2.7000e-004	0.0413	0.0109	2.5000e-004	0.0111		37.8033	37.8033	9.2000e-004		37.8264

3.4 Grading - 2020

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					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457		1,147.2352	1,147.2352	0.2169		1,152.6578
Total	0.8674	7.8729	7.6226	0.0120	0.7528	0.4672	1.2200	0.4138	0.4457	0.8595		1,147.2352	1,147.2352	0.2169		1,152.6578

788 San Antonio Road Mixed-Use Project - Bay Area AQMD Air District, Winter

3.4 Grading - 2020

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	0.4749	16.4411	3.4334	0.0438	2.0897	0.0534	2.1431	0.5409	0.0511	0.5920		4,686.2229	4,686.2229	0.2504		4,692.4834
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	0.0368	0.0260	0.2520	7.6000e-004	0.0822	5.3000e-004	0.0827	0.0218	4.9000e-004	0.0223		75.6065	75.6065	1.8500e-003		75.6528
Total	0.5117	16.4671	3.6854	0.0446	2.1719	0.0539	2.2258	0.5627	0.0516	0.6142		4,761.8294	4,761.8294	0.2523		4,768.1362

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3387	0.0000	0.3387	0.1862	0.0000	0.1862			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578
Total	0.8674	7.8729	7.6226	0.0120	0.3387	0.4672	0.8059	0.1862	0.4457	0.6319	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578

788 San Antonio Road Mixed-Use Project - Bay Area AQMD Air District, Winter

3.4 Grading - 2020

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	0.4749	16.4411	3.4334	0.0438	2.0897	0.0534	2.1431	0.5409	0.0511	0.5920		4,686.2229	4,686.2229	0.2504		4,692.4834
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	0.0368	0.0260	0.2520	7.6000e-004	0.0822	5.3000e-004	0.0827	0.0218	4.9000e-004	0.0223		75.6065	75.6065	1.8500e-003		75.6528
Total	0.5117	16.4671	3.6854	0.0446	2.1719	0.0539	2.2258	0.5627	0.0516	0.6142		4,761.8294	4,761.8294	0.2523		4,768.1362

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					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.7965	7.2530	7.5691	0.0120		0.4073	0.4073		0.3886	0.3886		1,147.4338	1,147.4338	0.2138		1,152.7797
Total	0.7965	7.2530	7.5691	0.0120	0.7528	0.4073	1.1601	0.4138	0.3886	0.8024		1,147.4338	1,147.4338	0.2138		1,152.7797

788 San Antonio Road Mixed-Use Project - 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	0.4482	15.1701	3.3546	0.0432	1.4725	0.0473	1.5199	0.3894	0.0453	0.4347		4,625.814 2	4,625.814 2	0.2448		4,631.934 9
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	0.0341	0.0232	0.2298	7.3000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		72.9537	72.9537	1.6500e-003		72.9949
Total	0.4823	15.1933	3.5844	0.0440	1.5547	0.0478	1.6025	0.4112	0.0457	0.4570		4,698.767 9	4,698.767 9	0.2465		4,704.929 9

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3387	0.0000	0.3387	0.1862	0.0000	0.1862			0.0000			0.0000
Off-Road	0.7965	7.2530	7.5691	0.0120		0.4073	0.4073		0.3886	0.3886	0.0000	1,147.433 8	1,147.433 8	0.2138		1,152.779 7
Total	0.7965	7.2530	7.5691	0.0120	0.3387	0.4073	0.7461	0.1862	0.3886	0.5748	0.0000	1,147.433 8	1,147.433 8	0.2138		1,152.779 7

788 San Antonio Road Mixed-Use Project - 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	0.4482	15.1701	3.3546	0.0432	1.4725	0.0473	1.5199	0.3894	0.0453	0.4347		4,625.814 2	4,625.814 2	0.2448		4,631.934 9
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	0.0341	0.0232	0.2298	7.3000e-004	0.0822	5.2000e-004	0.0827	0.0218	4.8000e-004	0.0223		72.9537	72.9537	1.6500e-003		72.9949
Total	0.4823	15.1933	3.5844	0.0440	1.5547	0.0478	1.6025	0.4112	0.0457	0.4570		4,698.767 9	4,698.767 9	0.2465		4,704.929 9

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	0.7750	7.9850	7.2637	0.0114		0.4475	0.4475		0.4117	0.4117		1,103.215 8	1,103.215 8	0.3568		1,112.135 8
Total	0.7750	7.9850	7.2637	0.0114		0.4475	0.4475		0.4117	0.4117		1,103.215 8	1,103.215 8	0.3568		1,112.135 8

788 San Antonio Road Mixed-Use Project - 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	0.0690	2.1888	0.5882	5.5800e-003	0.1422	4.8700e-003	0.1470	0.0409	4.6500e-003	0.0456		591.4170	591.4170	0.0308		592.1873
Worker	0.3372	0.2298	2.2751	7.2500e-003	0.8133	5.1200e-003	0.8184	0.2157	4.7100e-003	0.2204		722.2413	722.2413	0.0163		722.6498
Total	0.4062	2.4186	2.8633	0.0128	0.9554	9.9900e-003	0.9654	0.2566	9.3600e-003	0.2660		1,313.6583	1,313.6583	0.0472		1,314.8372

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7750	7.9850	7.2637	0.0114		0.4475	0.4475		0.4117	0.4117	0.0000	1,103.2158	1,103.2158	0.3568		1,112.1358
Total	0.7750	7.9850	7.2637	0.0114		0.4475	0.4475		0.4117	0.4117	0.0000	1,103.2158	1,103.2158	0.3568		1,112.1358

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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	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	0.0690	2.1888	0.5882	5.5800e-003	0.1422	4.8700e-003	0.1470	0.0409	4.6500e-003	0.0456		591.4170	591.4170	0.0308		592.1873
Worker	0.3372	0.2298	2.2751	7.2500e-003	0.8133	5.1200e-003	0.8184	0.2157	4.7100e-003	0.2204		722.2413	722.2413	0.0163		722.6498
Total	0.4062	2.4186	2.8633	0.0128	0.9554	9.9900e-003	0.9654	0.2566	9.3600e-003	0.2660		1,313.6583	1,313.6583	0.0472		1,314.8372

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	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422		1,103.9393	1,103.9393	0.3570		1,112.8652
Total	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422		1,103.9393	1,103.9393	0.3570		1,112.8652

788 San Antonio Road Mixed-Use Project - 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	0.0643	2.0723	0.5529	5.5200e-003	0.1422	4.2200e-003	0.1464	0.0409	4.0400e-003	0.0450		585.5617	585.5617	0.0294		586.2975
Worker	0.3147	0.2060	2.0878	6.9800e-003	0.8133	5.0000e-003	0.8183	0.2157	4.6000e-003	0.2203		695.7641	695.7641	0.0146		696.1299
Total	0.3791	2.2783	2.6407	0.0125	0.9554	9.2200e-003	0.9646	0.2566	8.6400e-003	0.2653		1,281.3258	1,281.3258	0.0441		1,282.4274

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422	0.0000	1,103.9393	1,103.9393	0.3570		1,112.8652
Total	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422	0.0000	1,103.9393	1,103.9393	0.3570		1,112.8652

788 San Antonio Road Mixed-Use Project - 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	0.0643	2.0723	0.5529	5.5200e-003	0.1422	4.2200e-003	0.1464	0.0409	4.0400e-003	0.0450		585.5617	585.5617	0.0294		586.2975
Worker	0.3147	0.2060	2.0878	6.9800e-003	0.8133	5.0000e-003	0.8183	0.2157	4.6000e-003	0.2203		695.7641	695.7641	0.0146		696.1299
Total	0.3791	2.2783	2.6407	0.0125	0.9554	9.2200e-003	0.9646	0.2566	8.6400e-003	0.2653		1,281.3258	1,281.3258	0.0441		1,282.4274

3.6 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	39.2993					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
Total	39.5038	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

788 San Antonio Road Mixed-Use Project - Bay Area AQMD Air District, Winter

3.6 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	0.0636	0.0416	0.4218	1.4100e-003	0.1643	1.0100e-003	0.1653	0.0436	9.3000e-004	0.0445		140.5584	140.5584	2.9600e-003		140.6323
Total	0.0636	0.0416	0.4218	1.4100e-003	0.1643	1.0100e-003	0.1653	0.0436	9.3000e-004	0.0445		140.5584	140.5584	2.9600e-003		140.6323

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	39.2993					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
Total	39.5038	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

788 San Antonio Road Mixed-Use Project - Bay Area AQMD Air District, Winter

3.6 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	0.0636	0.0416	0.4218	1.4100e-003	0.1643	1.0100e-003	0.1653	0.0436	9.3000e-004	0.0445		140.5584	140.5584	2.9600e-003		140.6323
Total	0.0636	0.0416	0.4218	1.4100e-003	0.1643	1.0100e-003	0.1653	0.0436	9.3000e-004	0.0445		140.5584	140.5584	2.9600e-003		140.6323

3.7 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758		1,035.8246	1,035.8246	0.3017		1,043.3677
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758		1,035.8246	1,035.8246	0.3017		1,043.3677

788 San Antonio Road Mixed-Use Project - Bay Area AQMD Air District, Winter

3.7 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	0.0572	0.0375	0.3796	1.2700e-003	0.1479	9.1000e-004	0.1488	0.0392	8.4000e-004	0.0401		126.5026	126.5026	2.6600e-003		126.5691
Total	0.0572	0.0375	0.3796	1.2700e-003	0.1479	9.1000e-004	0.1488	0.0392	8.4000e-004	0.0401		126.5026	126.5026	2.6600e-003		126.5691

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758	0.0000	1,035.8246	1,035.8246	0.3017		1,043.3677
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758	0.0000	1,035.8246	1,035.8246	0.3017		1,043.3677

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3.7 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	0.0572	0.0375	0.3796	1.2700e-003	0.1479	9.1000e-004	0.1488	0.0392	8.4000e-004	0.0401		126.5026	126.5026	2.6600e-003		126.5691
Total	0.0572	0.0375	0.3796	1.2700e-003	0.1479	9.1000e-004	0.1488	0.0392	8.4000e-004	0.0401		126.5026	126.5026	2.6600e-003		126.5691

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Increase Transit Accessibility

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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	lb/day										lb/day					
Mitigated	1.4779	6.1549	13.9405	0.0403	3.5169	0.0353	3.5522	0.9409	0.0329	0.9738		4,081.5297	4,081.5297	0.1780		4,085.9807
Unmitigated	1.7033	7.5765	19.2166	0.0648	5.9964	0.0544	6.0508	1.6042	0.0508	1.6550		6,565.6394	6,565.6394	0.2460		6,571.7899

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	461.04	442.68	405.96	1,040,590	610,308
Enclosed Parking with Elevator	0.00	0.00	0.00		
Regional Shopping Center	857.25	1,002.60	506.71	1,451,625	851,381
Total	1,318.29	1,445.28	912.67	2,492,215	1,461,689

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
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Regional Shopping Center	9.50	7.30	7.30	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749
Enclosed Parking with Elevator	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749
Regional Shopping Center	0.578638	0.038775	0.193686	0.110919	0.015677	0.005341	0.018293	0.026358	0.002641	0.002200	0.005832	0.000891	0.000749

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	0.0266	0.2270	0.0975	1.4500e-003		0.0184	0.0184		0.0184	0.0184		289.6663	289.6663	5.5500e-003	5.3100e-003	291.3876
NaturalGas Unmitigated	0.0266	0.2270	0.0975	1.4500e-003		0.0184	0.0184		0.0184	0.0184		289.6663	289.6663	5.5500e-003	5.3100e-003	291.3876

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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	lb/day										lb/day					
Apartments Mid Rise	2439.74	0.0263	0.2248	0.0957	1.4400e-003		0.0182	0.0182		0.0182	0.0182		287.0278	287.0278	5.5000e-003	5.2600e-003	288.7335
Enclosed Parking with Elevator	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
Regional Shopping Center	22.4266	2.4000e-004	2.2000e-003	1.8500e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		2.6384	2.6384	5.0000e-005	5.0000e-005	2.6541
Total		0.0266	0.2270	0.0975	1.4500e-003		0.0184	0.0184		0.0184	0.0184		289.6663	289.6663	5.5500e-003	5.3100e-003	291.3876

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					
Apartments Mid Rise	2.43974	0.0263	0.2248	0.0957	1.4400e-003		0.0182	0.0182		0.0182	0.0182		287.0278	287.0278	5.5000e-003	5.2600e-003	288.7335
Enclosed Parking with Elevator	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
Regional Shopping Center	0.0224266	2.4000e-004	2.2000e-003	1.8500e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		2.6384	2.6384	5.0000e-005	5.0000e-005	2.6541
Total		0.0266	0.2270	0.0975	1.4500e-003		0.0184	0.0184		0.0184	0.0184		289.6663	289.6663	5.5500e-003	5.3100e-003	291.3876

6.0 Area Detail

788 San Antonio Road Mixed-Use Project - 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	2.4684	0.3932	8.5561	2.3400e-003		0.0706	0.0706		0.0706	0.0706	0.0000	393.1803	393.1803	0.0219	6.9300e-003	395.7927
Unmitigated	2.4684	0.3932	8.5561	2.3400e-003		0.0706	0.0706		0.0706	0.0706	0.0000	393.1803	393.1803	0.0219	6.9300e-003	395.7927

788 San Antonio Road Mixed-Use Project - Bay Area AQMD Air District, Winter

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	0.3338					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.8452					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0347	0.2961	0.1260	1.8900e-003		0.0239	0.0239		0.0239	0.0239	0.0000	378.0000	378.0000	7.2400e-003	6.9300e-003	380.2463
Landscaping	0.2548	0.0971	8.4301	4.5000e-004		0.0466	0.0466		0.0466	0.0466		15.1803	15.1803	0.0146		15.5464
Total	2.4684	0.3932	8.5561	2.3400e-003		0.0706	0.0706		0.0706	0.0706	0.0000	393.1803	393.1803	0.0219	6.9300e-003	395.7927

788 San Antonio Road Mixed-Use Project - 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	0.3338					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.8452					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0347	0.2961	0.1260	1.8900e-003		0.0239	0.0239		0.0239	0.0239	0.0000	378.0000	378.0000	7.2400e-003	6.9300e-003	380.2463
Landscaping	0.2548	0.0971	8.4301	4.5000e-004		0.0466	0.0466		0.0466	0.0466		15.1803	15.1803	0.0146		15.5464
Total	2.4684	0.3932	8.5561	2.3400e-003		0.0706	0.0706		0.0706	0.0706	0.0000	393.1803	393.1803	0.0219	6.9300e-003	395.7927

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

788 San Antonio Road Mixed-Use Project - Bay Area AQMD Air District, Winter

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

San Antonio Mixed Use - Baseline - Bay Area AQMD Air District, Winter

San Antonio Mixed Use - Baseline
Bay Area AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	6.50	1000sqft	0.15	6,500.00	0
Unrefrigerated Warehouse-No Rail	6.10	1000sqft	0.14	6,100.00	0
Parking Lot	34.00	Space	0.55	23,958.00	0
Health Club	6.10	1000sqft	0.14	6,100.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2021
Utility Company	City of Palo Alto Public Utilities				
CO2 Intensity (lb/MW hr)	354.26	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

San Antonio Mixed Use - Baseline - Bay Area AQMD Air District, Winter

Project Characteristics - Baseline run - Operational Analysis only

Land Use - Site consists of 12,200 sf fitness studio and storage building (assumed each land use is half of building) and 6,500 sf construction/concrete company. Parking lot area adjusted to fit 0.98 ac site.

Construction Phase - OPERATIONAL ANALYSIS ONLY

Vehicle Trips - Existing uses generate 175 weekday trips (per trip generation for project). Trip gen rates adjusted proportionally to total 175 weekday trips. Sat/Sun trip rates adjusted proportionally as well.

Consumer Products -

Area Coating - Defaults used. Assumed compliance with BAAQMD Regulation 8, Rule 3 mandating 100 g/L and 150 g/L max VOC content for flat and nonflat coatings, respectively.

Energy Use - Buildings are existing structures of unknown age. No reductions to Title 24 energy use incorporated.

Construction Off-road Equipment Mitigation - OPERATIONAL ANALYSIS ONLY

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	1.00
tblLandUse	LandUseSquareFeet	13,600.00	23,958.00
tblLandUse	LotAcreage	0.31	0.55
tblVehicleTrips	ST_TR	1.32	0.90
tblVehicleTrips	ST_TR	20.87	14.24
tblVehicleTrips	ST_TR	1.68	1.15
tblVehicleTrips	SU_TR	0.68	0.46
tblVehicleTrips	SU_TR	26.73	18.24
tblVehicleTrips	SU_TR	1.68	1.15
tblVehicleTrips	WD_TR	6.97	4.76
tblVehicleTrips	WD_TR	32.93	22.47
tblVehicleTrips	WD_TR	1.68	1.15

2.0 Emissions Summary

San Antonio Mixed Use - Baseline - Bay Area AQMD Air District, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4653	5.0000e-005	5.4000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0115	0.0115	3.0000e-005		0.0123
Energy	9.4600e-003	0.0860	0.0723	5.2000e-004		6.5400e-003	6.5400e-003		6.5400e-003	6.5400e-003		103.2487	103.2487	1.9800e-003	1.8900e-003	103.8622
Mobile	0.2424	1.1658	2.7469	8.4800e-003	0.7386	8.0900e-003	0.7467	0.1976	7.5800e-003	0.2052		857.2055	857.2055	0.0352		858.0858
Total	0.7172	1.2519	2.8246	9.0000e-003	0.7386	0.0147	0.7532	0.1976	0.0141	0.2118		960.4657	960.4657	0.0372	1.8900e-003	961.9604

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4653	5.0000e-005	5.4000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0115	0.0115	3.0000e-005		0.0123
Energy	9.4600e-003	0.0860	0.0723	5.2000e-004		6.5400e-003	6.5400e-003		6.5400e-003	6.5400e-003		103.2487	103.2487	1.9800e-003	1.8900e-003	103.8622
Mobile	0.2424	1.1658	2.7469	8.4800e-003	0.7386	8.0900e-003	0.7467	0.1976	7.5800e-003	0.2052		857.2055	857.2055	0.0352		858.0858
Total	0.7172	1.2519	2.8246	9.0000e-003	0.7386	0.0147	0.7532	0.1976	0.0141	0.2118		960.4657	960.4657	0.0372	1.8900e-003	961.9604

San Antonio Mixed Use - Baseline - 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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	12/27/2019	12/27/2019	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.55

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

San Antonio Mixed Use - Baseline - Bay Area AQMD Air District, Winter

3.1 Mitigation Measures Construction

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125		1,159.6570	1,159.6570	0.2211		1,165.1847
Total	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125		1,159.6570	1,159.6570	0.2211		1,165.1847

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	0.0402	0.0294	0.2815	7.8000e-004	0.0822	5.4000e-004	0.0827	0.0218	5.0000e-004	0.0223		78.0632	78.0632	2.1200e-003		78.1162
Total	0.0402	0.0294	0.2815	7.8000e-004	0.0822	5.4000e-004	0.0827	0.0218	5.0000e-004	0.0223		78.0632	78.0632	2.1200e-003		78.1162

San Antonio Mixed Use - Baseline - Bay Area AQMD Air District, Winter

3.2 Demolition - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847
Total	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847

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	0.0402	0.0294	0.2815	7.8000e-004	0.0822	5.4000e-004	0.0827	0.0218	5.0000e-004	0.0223		78.0632	78.0632	2.1200e-003		78.1162
Total	0.0402	0.0294	0.2815	7.8000e-004	0.0822	5.4000e-004	0.0827	0.0218	5.0000e-004	0.0223		78.0632	78.0632	2.1200e-003		78.1162

4.0 Operational Detail - Mobile

San Antonio Mixed Use - Baseline - Bay Area AQMD Air District, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2424	1.1658	2.7469	8.4800e-003	0.7386	8.0900e-003	0.7467	0.1976	7.5800e-003	0.2052		857.2055	857.2055	0.0352		858.0858
Unmitigated	0.2424	1.1658	2.7469	8.4800e-003	0.7386	8.0900e-003	0.7467	0.1976	7.5800e-003	0.2052		857.2055	857.2055	0.0352		858.0858

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	30.94	5.85	2.99	68,208	68,208
Health Club	137.07	86.86	111.26	218,047	218,047
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	7.02	7.02	7.02	20,480	20,480
Total	175.02	99.73	121.27	306,736	306,736

4.3 Trip Type Information

San Antonio Mixed Use - Baseline - Bay Area AQMD Air District, Winter

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
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Health Club	9.50	7.30	7.30	16.90	64.10	19.00	52	39	9
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.575198	0.040076	0.193827	0.113296	0.016988	0.005361	0.017552	0.025197	0.002581	0.002349	0.005904	0.000881	0.000789
Health Club	0.575198	0.040076	0.193827	0.113296	0.016988	0.005361	0.017552	0.025197	0.002581	0.002349	0.005904	0.000881	0.000789
Parking Lot	0.575198	0.040076	0.193827	0.113296	0.016988	0.005361	0.017552	0.025197	0.002581	0.002349	0.005904	0.000881	0.000789
Unrefrigerated Warehouse-No Rail	0.575198	0.040076	0.193827	0.113296	0.016988	0.005361	0.017552	0.025197	0.002581	0.002349	0.005904	0.000881	0.000789

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

San Antonio Mixed Use - Baseline - 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					
NaturalGas Mitigated	9.4600e-003	0.0860	0.0723	5.2000e-004		6.5400e-003	6.5400e-003		6.5400e-003	6.5400e-003		103.2487	103.2487	1.9800e-003	1.8900e-003	103.8622
NaturalGas Unmitigated	9.4600e-003	0.0860	0.0723	5.2000e-004		6.5400e-003	6.5400e-003		6.5400e-003	6.5400e-003		103.2487	103.2487	1.9800e-003	1.8900e-003	103.8622

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					
General Light Industry	440.753	4.7500e-003	0.0432	0.0363	2.6000e-004		3.2800e-003	3.2800e-003		3.2800e-003	3.2800e-003		51.8533	51.8533	9.9000e-004	9.5000e-004	52.1615
Health Club	413.63	4.4600e-003	0.0406	0.0341	2.4000e-004		3.0800e-003	3.0800e-003		3.0800e-003	3.0800e-003		48.6624	48.6624	9.3000e-004	8.9000e-004	48.9516
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
Unrefrigerated Warehouse-No Rail	23.2301	2.5000e-004	2.2800e-003	1.9100e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		2.7330	2.7330	5.0000e-005	5.0000e-005	2.7492
Total		9.4600e-003	0.0860	0.0723	5.1000e-004		6.5300e-003	6.5300e-003		6.5300e-003	6.5300e-003		103.2487	103.2487	1.9700e-003	1.8900e-003	103.8622

San Antonio Mixed Use - Baseline - Bay Area AQMD Air District, Winter

5.2 Energy by Land Use - NaturalGas

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					
General Light Industry	0.440753	4.7500e-003	0.0432	0.0363	2.6000e-004		3.2800e-003	3.2800e-003		3.2800e-003	3.2800e-003		51.8533	51.8533	9.9000e-004	9.5000e-004	52.1615
Health Club	0.41363	4.4600e-003	0.0406	0.0341	2.4000e-004		3.0800e-003	3.0800e-003		3.0800e-003	3.0800e-003		48.6624	48.6624	9.3000e-004	8.9000e-004	48.9516
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
Unrefrigerated Warehouse-No Rail	0.0232301	2.5000e-004	2.2800e-003	1.9100e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004		2.7330	2.7330	5.0000e-005	5.0000e-005	2.7492
Total		9.4600e-003	0.0860	0.0723	5.1000e-004		6.5300e-003	6.5300e-003		6.5300e-003	6.5300e-003		103.2487	103.2487	1.9700e-003	1.8900e-003	103.8622

6.0 Area Detail

6.1 Mitigation Measures Area

San Antonio Mixed Use - Baseline - 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	0.4653	5.0000e-005	5.4000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0115	0.0115	3.0000e-005		0.0123
Unmitigated	0.4653	5.0000e-005	5.4000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0115	0.0115	3.0000e-005		0.0123

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	0.0562					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4087					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-004	5.0000e-005	5.4000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0115	0.0115	3.0000e-005		0.0123
Total	0.4653	5.0000e-005	5.4000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0115	0.0115	3.0000e-005		0.0123

San Antonio Mixed Use - Baseline - 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	0.0562					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4087					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-004	5.0000e-005	5.4000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0115	0.0115	3.0000e-005		0.0123
Total	0.4653	5.0000e-005	5.4000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0115	0.0115	3.0000e-005		0.0123

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 Antonio Mixed Use - Baseline - Bay Area AQMD Air District, Winter

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
