

Appendix AQ

CalEEMod Outputs

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Annual

2600 Moraga Road - AQ Run
Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	124.62	1000sqft	2.86	124,620.00	0
Parking Lot	16.00	Space	1.23	6,400.00	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	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use - Per project site plans

Construction Phase - Per project site plans

Trips and VMT -

Grading - Grading Plan

Architectural Coating - Per BAAQMD Regulation 8, Rule 3 limit for traffic marking coatings

Vehicle Trips - Net new vehicle trips

Area Coating -

Energy Use - Reduced pursuant to 2019 Title 24

Water And Wastewater - Reduced 20 percent pursuant to 2019 Title 24. No septic tanks or facultative lagoons on site

Solid Waste -

Area Mitigation - Pursuant to BAAQMD Regulation 8, Rule 3 for traffic marking coatings

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	62,310.00	62,205.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	186,930.00	186,614.00
tblArchitecturalCoating	ConstArea_Parking	384.00	336.00
tblArchitecturalCoating	EF_Parking	150.00	100.00
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	150	100
tblConstructionPhase	NumDays	5.00	32.00
tblConstructionPhase	NumDays	8.00	31.00
tblConstructionPhase	NumDays	230.00	333.00
tblConstructionPhase	NumDays	18.00	31.00
tblConstructionPhase	NumDays	18.00	31.00
tblConstructionPhase	NumDaysWeek	5.00	7.00

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tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblEnergyUse	T24E	0.24	0.17
tblGrading	MaterialExported	0.00	1,171.00
tblLandUse	LotAcreage	0.14	1.23
tblSolidWaste	SolidWasteGenerationRate	117.14	116.95
tblVehicleTrips	WD_TR	1.68	1.49
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	28,818,375.00	23,015,850.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2021	9-30-2021	1.4684	1.4684
2	10-1-2021	12-31-2021	1.0077	1.0077
3	1-1-2022	3-31-2022	0.8887	0.8887
4	4-1-2022	6-30-2022	1.7373	1.7373
5	7-1-2022	9-30-2022	0.3053	0.3053
		Highest	1.7373	1.7373

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	0.5524	1.0000e-005	1.2900e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5100e-003	2.5100e-003	1.0000e-005	0.0000	2.6800e-003
Energy	9.3000e-004	8.4900e-003	7.1300e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	144.7580	144.7580	6.3000e-003	1.4400e-003	145.3439
Mobile	0.0479	0.2188	0.5934	2.3000e-003	0.2091	1.8600e-003	0.2110	0.0561	1.7400e-003	0.0579	0.0000	211.4000	211.4000	7.0300e-003	0.0000	211.5757
Waste						0.0000	0.0000		0.0000	0.0000	23.7398	0.0000	23.7398	1.4030	0.0000	58.8143
Water						0.0000	0.0000		0.0000	0.0000	8.1430	36.2298	44.3728	0.0297	0.0181	50.4926
Total	0.6012	0.2273	0.6018	2.3500e-003	0.2091	2.5100e-003	0.2116	0.0561	2.3900e-003	0.0585	31.8828	392.3902	424.2731	1.4460	0.0195	466.2292

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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	0.5523	1.0000e-005	1.2900e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5100e-003	2.5100e-003	1.0000e-005	0.0000	2.6800e-003
Energy	9.3000e-004	8.4900e-003	7.1300e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	144.7580	144.7580	6.3000e-003	1.4400e-003	145.3439
Mobile	0.0479	0.2188	0.5934	2.3000e-003	0.2091	1.8600e-003	0.2110	0.0561	1.7400e-003	0.0579	0.0000	211.4000	211.4000	7.0300e-003	0.0000	211.5757
Waste						0.0000	0.0000		0.0000	0.0000	23.7398	0.0000	23.7398	1.4030	0.0000	58.8143
Water						0.0000	0.0000		0.0000	0.0000	8.1430	36.2298	44.3728	0.0297	0.0181	50.4926
Total	0.6011	0.2273	0.6018	2.3500e-003	0.2091	2.5100e-003	0.2116	0.0561	2.3900e-003	0.0585	31.8828	392.3902	424.2731	1.4460	0.0195	466.2292

	ROG	NOx	CO	SO2	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	0.01	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

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2021	8/1/2021	7	32	
2	Grading	Grading	8/2/2021	9/1/2021	7	31	
3	Building Construction	Building Construction	9/2/2021	7/31/2022	7	333	
4	Paving	Paving	5/1/2022	5/31/2022	7	31	
5	Architectural Coating	Architectural Coating	5/1/2022	5/31/2022	7	31	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 15.5

Acres of Paving: 1.23

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 186,614; Non-Residential Outdoor: 62,205; Striped Parking Area: 336 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	146.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	55.00	21.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2891	0.0000	0.2891	0.1589	0.0000	0.1589	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0622	0.6480	0.3385	6.1000e-004		0.0327	0.0327		0.0301	0.0301	0.0000	53.4972	53.4972	0.0173	0.0000	53.9297
Total	0.0622	0.6480	0.3385	6.1000e-004	0.2891	0.0327	0.3218	0.1589	0.0301	0.1890	0.0000	53.4972	53.4972	0.0173	0.0000	53.9297

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3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.8000e-004	6.1000e-004	6.4600e-003	2.0000e-005	2.2800e-003	1.0000e-005	2.2900e-003	6.1000e-004	1.0000e-005	6.2000e-004	0.0000	1.9238	1.9238	4.0000e-005	0.0000	1.9249
Total	8.8000e-004	6.1000e-004	6.4600e-003	2.0000e-005	2.2800e-003	1.0000e-005	2.2900e-003	6.1000e-004	1.0000e-005	6.2000e-004	0.0000	1.9238	1.9238	4.0000e-005	0.0000	1.9249

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2891	0.0000	0.2891	0.1589	0.0000	0.1589	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0622	0.6480	0.3385	6.1000e-004		0.0327	0.0327		0.0301	0.0301	0.0000	53.4971	53.4971	0.0173	0.0000	53.9296
Total	0.0622	0.6480	0.3385	6.1000e-004	0.2891	0.0327	0.3218	0.1589	0.0301	0.1890	0.0000	53.4971	53.4971	0.0173	0.0000	53.9296

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3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.8000e-004	6.1000e-004	6.4600e-003	2.0000e-005	2.2800e-003	1.0000e-005	2.2900e-003	6.1000e-004	1.0000e-005	6.2000e-004	0.0000	1.9238	1.9238	4.0000e-005	0.0000	1.9249
Total	8.8000e-004	6.1000e-004	6.4600e-003	2.0000e-005	2.2800e-003	1.0000e-005	2.2900e-003	6.1000e-004	1.0000e-005	6.2000e-004	0.0000	1.9238	1.9238	4.0000e-005	0.0000	1.9249

3.3 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					0.1016	0.0000	0.1016	0.0522	0.0000	0.0522	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0355	0.3834	0.2458	4.6000e-004		0.0180	0.0180		0.0165	0.0165	0.0000	40.3832	40.3832	0.0131	0.0000	40.7098
Total	0.0355	0.3834	0.2458	4.6000e-004	0.1016	0.0180	0.1196	0.0522	0.0165	0.0688	0.0000	40.3832	40.3832	0.0131	0.0000	40.7098

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3.3 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	5.8000e-004	0.0197	4.2000e-003	6.0000e-005	1.2300e-003	6.0000e-005	1.2900e-003	3.4000e-004	6.0000e-005	4.0000e-004	0.0000	5.5228	5.5228	2.8000e-004	0.0000	5.5298
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1000e-004	4.9000e-004	5.2100e-003	2.0000e-005	1.8400e-003	1.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.5531	1.5531	3.0000e-005	0.0000	1.5540
Total	1.2900e-003	0.0202	9.4100e-003	8.0000e-005	3.0700e-003	7.0000e-005	3.1400e-003	8.3000e-004	7.0000e-005	9.0000e-004	0.0000	7.0759	7.0759	3.1000e-004	0.0000	7.0838

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1016	0.0000	0.1016	0.0522	0.0000	0.0522	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0355	0.3834	0.2458	4.6000e-004		0.0180	0.0180		0.0165	0.0165	0.0000	40.3832	40.3832	0.0131	0.0000	40.7097
Total	0.0355	0.3834	0.2458	4.6000e-004	0.1016	0.0180	0.1196	0.0522	0.0165	0.0688	0.0000	40.3832	40.3832	0.0131	0.0000	40.7097

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3.3 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	5.8000e-004	0.0197	4.2000e-003	6.0000e-005	1.2300e-003	6.0000e-005	1.2900e-003	3.4000e-004	6.0000e-005	4.0000e-004	0.0000	5.5228	5.5228	2.8000e-004	0.0000	5.5298
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1000e-004	4.9000e-004	5.2100e-003	2.0000e-005	1.8400e-003	1.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.5531	1.5531	3.0000e-005	0.0000	1.5540
Total	1.2900e-003	0.0202	9.4100e-003	8.0000e-005	3.0700e-003	7.0000e-005	3.1400e-003	8.3000e-004	7.0000e-005	9.0000e-004	0.0000	7.0759	7.0759	3.1000e-004	0.0000	7.0838

3.4 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	0.1150	1.0546	1.0028	1.6300e-003		0.0580	0.0580		0.0545	0.0545	0.0000	140.1406	140.1406	0.0338	0.0000	140.9858
Total	0.1150	1.0546	1.0028	1.6300e-003		0.0580	0.0580		0.0545	0.0545	0.0000	140.1406	140.1406	0.0338	0.0000	140.9858

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3.4 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	4.0300e-003	0.1327	0.0331	3.4000e-004	8.3300e-003	2.9000e-004	8.6200e-003	2.4100e-003	2.8000e-004	2.6900e-003	0.0000	32.9497	32.9497	1.6200e-003	0.0000	32.9901
Worker	0.0102	7.0500e-003	0.0746	2.5000e-004	0.0263	1.7000e-004	0.0265	6.9900e-003	1.6000e-004	7.1500e-003	0.0000	22.2274	22.2274	5.0000e-004	0.0000	22.2398
Total	0.0142	0.1398	0.1078	5.9000e-004	0.0346	4.6000e-004	0.0351	9.4000e-003	4.4000e-004	9.8400e-003	0.0000	55.1770	55.1770	2.1200e-003	0.0000	55.2300

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	0.1150	1.0546	1.0028	1.6300e-003		0.0580	0.0580		0.0545	0.0545	0.0000	140.1404	140.1404	0.0338	0.0000	140.9856
Total	0.1150	1.0546	1.0028	1.6300e-003		0.0580	0.0580		0.0545	0.0545	0.0000	140.1404	140.1404	0.0338	0.0000	140.9856

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3.4 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	4.0300e-003	0.1327	0.0331	3.4000e-004	8.3300e-003	2.9000e-004	8.6200e-003	2.4100e-003	2.8000e-004	2.6900e-003	0.0000	32.9497	32.9497	1.6200e-003	0.0000	32.9901
Worker	0.0102	7.0500e-003	0.0746	2.5000e-004	0.0263	1.7000e-004	0.0265	6.9900e-003	1.6000e-004	7.1500e-003	0.0000	22.2274	22.2274	5.0000e-004	0.0000	22.2398
Total	0.0142	0.1398	0.1078	5.9000e-004	0.0346	4.6000e-004	0.0351	9.4000e-003	4.4000e-004	9.8400e-003	0.0000	55.1770	55.1770	2.1200e-003	0.0000	55.2300

3.4 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	0.1809	1.6553	1.7345	2.8500e-003		0.0858	0.0858		0.0807	0.0807	0.0000	245.6288	245.6288	0.0589	0.0000	247.0999
Total	0.1809	1.6553	1.7345	2.8500e-003		0.0858	0.0858		0.0807	0.0807	0.0000	245.6288	245.6288	0.0589	0.0000	247.0999

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3.4 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	6.5900e-003	0.2202	0.0546	5.9000e-004	0.0146	4.4000e-004	0.0150	4.2200e-003	4.2000e-004	4.6400e-003	0.0000	57.1639	57.1639	2.7100e-003	0.0000	57.2317
Worker	0.0167	0.0111	0.1202	4.1000e-004	0.0461	2.9000e-004	0.0464	0.0123	2.7000e-004	0.0125	0.0000	37.5161	37.5161	7.8000e-004	0.0000	37.5357
Total	0.0233	0.2313	0.1747	1.0000e-003	0.0607	7.3000e-004	0.0614	0.0165	6.9000e-004	0.0172	0.0000	94.6800	94.6800	3.4900e-003	0.0000	94.7674

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	0.1809	1.6553	1.7345	2.8500e-003		0.0858	0.0858		0.0807	0.0807	0.0000	245.6285	245.6285	0.0589	0.0000	247.0996
Total	0.1809	1.6553	1.7345	2.8500e-003		0.0858	0.0858		0.0807	0.0807	0.0000	245.6285	245.6285	0.0589	0.0000	247.0996

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3.4 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	6.5900e-003	0.2202	0.0546	5.9000e-004	0.0146	4.4000e-004	0.0150	4.2200e-003	4.2000e-004	4.6400e-003	0.0000	57.1639	57.1639	2.7100e-003	0.0000	57.2317
Worker	0.0167	0.0111	0.1202	4.1000e-004	0.0461	2.9000e-004	0.0464	0.0123	2.7000e-004	0.0125	0.0000	37.5161	37.5161	7.8000e-004	0.0000	37.5357
Total	0.0233	0.2313	0.1747	1.0000e-003	0.0607	7.3000e-004	0.0614	0.0165	6.9000e-004	0.0172	0.0000	94.6800	94.6800	3.4900e-003	0.0000	94.7674

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0151	0.1476	0.1890	2.9000e-004		7.5600e-003	7.5600e-003		6.9800e-003	6.9800e-003	0.0000	25.3826	25.3826	7.9800e-003	0.0000	25.5820
Paving	1.6100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0168	0.1476	0.1890	2.9000e-004		7.5600e-003	7.5600e-003		6.9800e-003	6.9800e-003	0.0000	25.3826	25.3826	7.9800e-003	0.0000	25.5820

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3.5 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	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					
Off-Road	0.0151	0.1476	0.1890	2.9000e-004		7.5600e-003	7.5600e-003		6.9800e-003	6.9800e-003	0.0000	25.3826	25.3826	7.9800e-003	0.0000	25.5819
Paving	1.6100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0168	0.1476	0.1890	2.9000e-004		7.5600e-003	7.5600e-003		6.9800e-003	6.9800e-003	0.0000	25.3826	25.3826	7.9800e-003	0.0000	25.5819

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3.5 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	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

3.6 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	0.6495					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	0.6527	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	4.9000e-004	3.2000e-004	3.5100e-003	1.0000e-005	1.3500e-003	1.0000e-005	1.3600e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.0972	1.0972	2.0000e-005	0.0000	1.0977
Total	4.9000e-004	3.2000e-004	3.5100e-003	1.0000e-005	1.3500e-003	1.0000e-005	1.3600e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.0972	1.0972	2.0000e-005	0.0000	1.0977

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	0.6495					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	0.6527	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	4.9000e-004	3.2000e-004	3.5100e-003	1.0000e-005	1.3500e-003	1.0000e-005	1.3600e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.0972	1.0972	2.0000e-005	0.0000	1.0977
Total	4.9000e-004	3.2000e-004	3.5100e-003	1.0000e-005	1.3500e-003	1.0000e-005	1.3600e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.0972	1.0972	2.0000e-005	0.0000	1.0977

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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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	0.0479	0.2188	0.5934	2.3000e-003	0.2091	1.8600e-003	0.2110	0.0561	1.7400e-003	0.0579	0.0000	211.4000	211.4000	7.0300e-003	0.0000	211.5757
Unmitigated	0.0479	0.2188	0.5934	2.3000e-003	0.2091	1.8600e-003	0.2110	0.0561	1.7400e-003	0.0579	0.0000	211.4000	211.4000	7.0300e-003	0.0000	211.5757

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	185.68	209.36	209.36	561,857	561,857
Total	185.68	209.36	209.36	561,857	561,857

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
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	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
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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

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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	135.5142	135.5142	6.1300e-003	1.2700e-003	136.0452
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	135.5142	135.5142	6.1300e-003	1.2700e-003	136.0452
NaturalGas Mitigated	9.3000e-004	8.4900e-003	7.1300e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.2438	9.2438	1.8000e-004	1.7000e-004	9.2987
NaturalGas Unmitigated	9.3000e-004	8.4900e-003	7.1300e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.2438	9.2438	1.8000e-004	1.7000e-004	9.2987

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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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	173222	9.3000e-004	8.4900e-003	7.1300e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.2438	9.2438	1.8000e-004	1.7000e-004	9.2987
Total		9.3000e-004	8.4900e-003	7.1300e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.2438	9.2438	1.8000e-004	1.7000e-004	9.2987

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	173222	9.3000e-004	8.4900e-003	7.1300e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.2438	9.2438	1.8000e-004	1.7000e-004	9.2987
Total		9.3000e-004	8.4900e-003	7.1300e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.2438	9.2438	1.8000e-004	1.7000e-004	9.2987

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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			
Parking Lot	2240	0.6516	3.0000e-005	1.0000e-005	0.6542
Unrefrigerated Warehouse-No Rail	463586	134.8626	6.1000e-003	1.2600e-003	135.3910
Total		135.5142	6.1300e-003	1.2700e-003	136.0452

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	2240	0.6516	3.0000e-005	1.0000e-005	0.6542
Unrefrigerated Warehouse-No Rail	463586	134.8626	6.1000e-003	1.2600e-003	135.3910
Total		135.5142	6.1300e-003	1.2700e-003	136.0452

6.0 Area Detail

6.1 Mitigation Measures Area

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Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive 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	0.5523	1.0000e-005	1.2900e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5100e-003	2.5100e-003	1.0000e-005	0.0000	2.6800e-003
Unmitigated	0.5524	1.0000e-005	1.2900e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5100e-003	2.5100e-003	1.0000e-005	0.0000	2.6800e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0651					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4871					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.2900e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5100e-003	2.5100e-003	1.0000e-005	0.0000	2.6800e-003
Total	0.5524	1.0000e-005	1.2900e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5100e-003	2.5100e-003	1.0000e-005	0.0000	2.6800e-003

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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	0.0651					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4871					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.2900e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5100e-003	2.5100e-003	1.0000e-005	0.0000	2.6800e-003
Total	0.5523	1.0000e-005	1.2900e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5100e-003	2.5100e-003	1.0000e-005	0.0000	2.6800e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Use Water Efficient Irrigation System

Use Water Efficient Landscaping

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	44.3728	0.0297	0.0181	50.4926
Unmitigated	44.3728	0.0297	0.0181	50.4926

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	23.0159 / 0	44.3728	0.0297	0.0181	50.4926
Total		44.3728	0.0297	0.0181	50.4926

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	23.0159 / 0	44.3728	0.0297	0.0181	50.4926
Total		44.3728	0.0297	0.0181	50.4926

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	23.7398	1.4030	0.0000	58.8143
Unmitigated	23.7398	1.4030	0.0000	58.8143

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	116.95	23.7398	1.4030	0.0000	58.8143
Total		23.7398	1.4030	0.0000	58.8143

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	116.95	23.7398	1.4030	0.0000	58.8143
Total		23.7398	1.4030	0.0000	58.8143

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Summer

**2600 Moraga Road - AQ Run
Bay Area AQMD Air District, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	124.62	1000sqft	2.86	124,620.00	0
Parking Lot	16.00	Space	1.23	6,400.00	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	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Summer

Project Characteristics -

Land Use - Per project site plans

Construction Phase - Per project site plans

Trips and VMT -

Grading - Grading Plan

Architectural Coating - Per BAAQMD Regulation 8, Rule 3 limit for traffic marking coatings

Vehicle Trips - Net new vehicle trips

Area Coating -

Energy Use - Reduced pursuant to 2019 Title 24

Water And Wastewater - Reduced 20 percent pursuant to 2019 Title 24. No septic tanks or facultative lagoons on site

Solid Waste -

Area Mitigation - Pursuant to BAAQMD Regulation 8, Rule 3 for traffic marking coatings

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	62,310.00	62,205.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	186,930.00	186,614.00
tblArchitecturalCoating	ConstArea_Parking	384.00	336.00
tblArchitecturalCoating	EF_Parking	150.00	100.00
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	150	100
tblConstructionPhase	NumDays	5.00	32.00
tblConstructionPhase	NumDays	8.00	31.00
tblConstructionPhase	NumDays	230.00	333.00
tblConstructionPhase	NumDays	18.00	31.00
tblConstructionPhase	NumDays	18.00	31.00
tblConstructionPhase	NumDaysWeek	5.00	7.00

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tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblEnergyUse	T24E	0.24	0.17
tblGrading	MaterialExported	0.00	1,171.00
tblLandUse	LotAcreage	0.14	1.23
tblSolidWaste	SolidWasteGenerationRate	117.14	116.95
tblVehicleTrips	WD_TR	1.68	1.49
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	28,818,375.00	23,015,850.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Summer

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.0273	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0308	0.0308	8.0000e-005		0.0328
Energy	5.1200e-003	0.0465	0.0391	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003		55.8330	55.8330	1.0700e-003	1.0200e-003	56.1648
Mobile	0.3260	1.2629	3.7437	0.0146	1.2985	0.0111	1.3096	0.3474	0.0104	0.3578		1,473.6503	1,473.6503	0.0469		1,474.8226
Total	3.3584	1.3096	3.7972	0.0148	1.2985	0.0147	1.3132	0.3474	0.0140	0.3614		1,529.5141	1,529.5141	0.0480	1.0200e-003	1,531.0202

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	3.0270	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0308	0.0308	8.0000e-005		0.0328
Energy	5.1200e-003	0.0465	0.0391	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003		55.8330	55.8330	1.0700e-003	1.0200e-003	56.1648
Mobile	0.3260	1.2629	3.7437	0.0146	1.2985	0.0111	1.3096	0.3474	0.0104	0.3578		1,473.6503	1,473.6503	0.0469		1,474.8226
Total	3.3582	1.3096	3.7972	0.0148	1.2985	0.0147	1.3132	0.3474	0.0140	0.3614		1,529.5141	1,529.5141	0.0480	1.0200e-003	1,531.0202

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.01	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	Site Preparation	Site Preparation	7/1/2021	8/1/2021	7	32	
2	Grading	Grading	8/2/2021	9/1/2021	7	31	
3	Building Construction	Building Construction	9/2/2021	7/31/2022	7	333	
4	Paving	Paving	5/1/2022	5/31/2022	7	31	
5	Architectural Coating	Architectural Coating	5/1/2022	5/31/2022	7	31	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 15.5

Acres of Paving: 1.23

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 186,614; Non-Residential Outdoor: 62,205; Striped Parking Area: 336 (Architectural Coating – sqft)

OffRoad Equipment

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	146.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	55.00	21.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Summer

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

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

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Summer

3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0579	0.0338	0.4421	1.4300e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		142.5527	142.5527	3.1900e-003		142.6324
Total	0.0579	0.0338	0.4421	1.4300e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		142.5527	142.5527	3.1900e-003		142.6324

Mitigated Construction On-Site

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

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Summer

3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0579	0.0338	0.4421	1.4300e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		142.5527	142.5527	3.1900e-003		142.6324
Total	0.0579	0.0338	0.4421	1.4300e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		142.5527	142.5527	3.1900e-003		142.6324

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5566	0.0000	6.5566	3.3681	0.0000	3.3681			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
Total	2.2903	24.7367	15.8575	0.0296	6.5566	1.1599	7.7165	3.3681	1.0671	4.4353		2,871.9285	2,871.9285	0.9288		2,895.1495

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Summer

3.3 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	0.0367	1.2462	0.2627	3.7000e-003	0.0823	3.9100e-003	0.0862	0.0226	3.7400e-003	0.0263		395.5704	395.5704	0.0196		396.0611
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0482	0.0282	0.3685	1.1900e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		118.7939	118.7939	2.6600e-003		118.8603
Total	0.0849	1.2744	0.6311	4.8900e-003	0.2055	4.6900e-003	0.2102	0.0552	4.4500e-003	0.0597		514.3643	514.3643	0.0223		514.9214

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5566	0.0000	6.5566	3.3681	0.0000	3.3681			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495
Total	2.2903	24.7367	15.8575	0.0296	6.5566	1.1599	7.7165	3.3681	1.0671	4.4353	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Summer

3.3 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	0.0367	1.2462	0.2627	3.7000e-003	0.0823	3.9100e-003	0.0862	0.0226	3.7400e-003	0.0263		395.5704	395.5704	0.0196		396.0611
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0482	0.0282	0.3685	1.1900e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		118.7939	118.7939	2.6600e-003		118.8603
Total	0.0849	1.2744	0.6311	4.8900e-003	0.2055	4.6900e-003	0.2102	0.0552	4.4500e-003	0.0597		514.3643	514.3643	0.0223		514.9214

3.4 Building Construction - 2021

Unmitigated Construction On-Site

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

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Summer

3.4 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	0.0651	2.1702	0.5117	5.7300e-003	0.1422	4.7000e-003	0.1469	0.0409	4.5000e-003	0.0454		606.8129	606.8129	0.0285		607.5249
Worker	0.1769	0.1034	1.3510	4.3700e-003	0.4518	2.8400e-003	0.4547	0.1198	2.6200e-003	0.1225		435.5777	435.5777	9.7400e-003		435.8212
Total	0.2420	2.2735	1.8627	0.0101	0.5940	7.5400e-003	0.6015	0.1608	7.1200e-003	0.1679		1,042.3907	1,042.3907	0.0382		1,043.3461

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Summer

3.4 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	0.0651	2.1702	0.5117	5.7300e-003	0.1422	4.7000e-003	0.1469	0.0409	4.5000e-003	0.0454		606.8129	606.8129	0.0285		607.5249
Worker	0.1769	0.1034	1.3510	4.3700e-003	0.4518	2.8400e-003	0.4547	0.1198	2.6200e-003	0.1225		435.5777	435.5777	9.7400e-003		435.8212
Total	0.2420	2.2735	1.8627	0.0101	0.5940	7.5400e-003	0.6015	0.1608	7.1200e-003	0.1679		1,042.3907	1,042.3907	0.0382		1,043.3461

3.4 Building Construction - 2022

Unmitigated Construction On-Site

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

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Summer

3.4 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	0.0607	2.0568	0.4813	5.6700e-003	0.1422	4.0800e-003	0.1462	0.0409	3.9000e-003	0.0448		600.9035	600.9035	0.0272		601.5842
Worker	0.1646	0.0927	1.2449	4.2100e-003	0.4518	2.7800e-003	0.4546	0.1198	2.5600e-003	0.1224		419.5925	419.5925	8.7400e-003		419.8111
Total	0.2253	2.1495	1.7261	9.8800e-003	0.5940	6.8600e-003	0.6008	0.1608	6.4600e-003	0.1672		1,020.4959	1,020.4959	0.0360		1,021.3953

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Summer

3.4 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	0.0607	2.0568	0.4813	5.6700e-003	0.1422	4.0800e-003	0.1462	0.0409	3.9000e-003	0.0448		600.9035	600.9035	0.0272		601.5842
Worker	0.1646	0.0927	1.2449	4.2100e-003	0.4518	2.7800e-003	0.4546	0.1198	2.5600e-003	0.1224		419.5925	419.5925	8.7400e-003		419.8111
Total	0.2253	2.1495	1.7261	9.8800e-003	0.5940	6.8600e-003	0.6008	0.1608	6.4600e-003	0.1672		1,020.4959	1,020.4959	0.0360		1,021.3953

3.5 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	0.9765	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504		1,805.1297	1,805.1297	0.5672		1,819.3091
Paving	0.1040					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0805	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504		1,805.1297	1,805.1297	0.5672		1,819.3091

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Summer

3.5 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	0.0599	0.0337	0.4527	1.5300e-003	0.1643	1.0100e-003	0.1653	0.0436	9.3000e-004	0.0445		152.5791	152.5791	3.1800e-003		152.6586
Total	0.0599	0.0337	0.4527	1.5300e-003	0.1643	1.0100e-003	0.1653	0.0436	9.3000e-004	0.0445		152.5791	152.5791	3.1800e-003		152.6586

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	0.9765	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504	0.0000	1,805.1297	1,805.1297	0.5672		1,819.3091
Paving	0.1040					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0805	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504	0.0000	1,805.1297	1,805.1297	0.5672		1,819.3091

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Summer

3.5 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	0.0599	0.0337	0.4527	1.5300e-003	0.1643	1.0100e-003	0.1653	0.0436	9.3000e-004	0.0445		152.5791	152.5791	3.1800e-003		152.6586
Total	0.0599	0.0337	0.4527	1.5300e-003	0.1643	1.0100e-003	0.1653	0.0436	9.3000e-004	0.0445		152.5791	152.5791	3.1800e-003		152.6586

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	41.9030					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	42.1076	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Summer

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	0.0329	0.0185	0.2490	8.4000e-004	0.0904	5.6000e-004	0.0909	0.0240	5.1000e-004	0.0245		83.9185	83.9185	1.7500e-003		83.9622
Total	0.0329	0.0185	0.2490	8.4000e-004	0.0904	5.6000e-004	0.0909	0.0240	5.1000e-004	0.0245		83.9185	83.9185	1.7500e-003		83.9622

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	41.9030					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	42.1076	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

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Summer

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	0.0329	0.0185	0.2490	8.4000e-004	0.0904	5.6000e-004	0.0909	0.0240	5.1000e-004	0.0245		83.9185	83.9185	1.7500e-003		83.9622
Total	0.0329	0.0185	0.2490	8.4000e-004	0.0904	5.6000e-004	0.0909	0.0240	5.1000e-004	0.0245		83.9185	83.9185	1.7500e-003		83.9622

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3260	1.2629	3.7437	0.0146	1.2985	0.0111	1.3096	0.3474	0.0104	0.3578		1,473.6503	1,473.6503	0.0469		1,474.8226
Unmitigated	0.3260	1.2629	3.7437	0.0146	1.2985	0.0111	1.3096	0.3474	0.0104	0.3578		1,473.6503	1,473.6503	0.0469		1,474.8226

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	185.68	209.36	209.36	561,857	561,857
Total	185.68	209.36	209.36	561,857	561,857

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
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	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
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Summer

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	5.1200e-003	0.0465	0.0391	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003		55.8330	55.8330	1.0700e-003	1.0200e-003	56.1648
NaturalGas Unmitigated	5.1200e-003	0.0465	0.0391	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003		55.8330	55.8330	1.0700e-003	1.0200e-003	56.1648

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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	474.58	5.1200e-003	0.0465	0.0391	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003		55.8330	55.8330	1.0700e-003	1.0200e-003	56.1648
Total		5.1200e-003	0.0465	0.0391	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003		55.8330	55.8330	1.0700e-003	1.0200e-003	56.1648

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					
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	0.47458	5.1200e-003	0.0465	0.0391	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003		55.8330	55.8330	1.0700e-003	1.0200e-003	56.1648
Total		5.1200e-003	0.0465	0.0391	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003		55.8330	55.8330	1.0700e-003	1.0200e-003	56.1648

6.0 Area Detail

6.1 Mitigation Measures Area

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Summer

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive 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	3.0270	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0308	0.0308	8.0000e-005		0.0328
Unmitigated	3.0273	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0308	0.0308	8.0000e-005		0.0328

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	0.3568					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6691					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3300e-003	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0308	0.0308	8.0000e-005		0.0328
Total	3.0273	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0308	0.0308	8.0000e-005		0.0328

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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	lb/day										lb/day					
Architectural Coating	0.3566					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6691					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3300e-003	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0308	0.0308	8.0000e-005		0.0328
Total	3.0270	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0308	0.0308	8.0000e-005		0.0328

7.0 Water Detail

7.1 Mitigation Measures Water

Use Water Efficient Irrigation System

Use Water Efficient Landscaping

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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2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Summer

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Winter

2600 Moraga Road - AQ Run
Bay Area AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	124.62	1000sqft	2.86	124,620.00	0
Parking Lot	16.00	Space	1.23	6,400.00	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	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Winter

Project Characteristics -

Land Use - Per project site plans

Construction Phase - Per project site plans

Trips and VMT -

Grading - Grading Plan

Architectural Coating - Per BAAQMD Regulation 8, Rule 3 limit for traffic marking coatings

Vehicle Trips - Net new vehicle trips

Area Coating -

Energy Use - Reduced pursuant to 2019 Title 24

Water And Wastewater - Reduced 20 percent pursuant to 2019 Title 24. No septic tanks or facultative lagoons on site

Solid Waste -

Area Mitigation - Pursuant to BAAQMD Regulation 8, Rule 3 for traffic marking coatings

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	62,310.00	62,205.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	186,930.00	186,614.00
tblArchitecturalCoating	ConstArea_Parking	384.00	336.00
tblArchitecturalCoating	EF_Parking	150.00	100.00
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	150	100
tblConstructionPhase	NumDays	5.00	32.00
tblConstructionPhase	NumDays	8.00	31.00
tblConstructionPhase	NumDays	230.00	333.00
tblConstructionPhase	NumDays	18.00	31.00
tblConstructionPhase	NumDays	18.00	31.00
tblConstructionPhase	NumDaysWeek	5.00	7.00

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Winter

tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblEnergyUse	T24E	0.24	0.17
tblGrading	MaterialExported	0.00	1,171.00
tblLandUse	LotAcreage	0.14	1.23
tblSolidWaste	SolidWasteGenerationRate	117.14	116.95
tblVehicleTrips	WD_TR	1.68	1.49
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	28,818,375.00	23,015,850.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

2600 Moraga Road - AQ Run - 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	3.0273	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0308	0.0308	8.0000e-005		0.0328
Energy	5.1200e-003	0.0465	0.0391	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003		55.8330	55.8330	1.0700e-003	1.0200e-003	56.1648
Mobile	0.2837	1.3365	3.6866	0.0136	1.2985	0.0112	1.3097	0.3474	0.0104	0.3578		1,380.7224	1,380.7224	0.0473		1,381.9043
Total	3.3161	1.3831	3.7400	0.0139	1.2985	0.0148	1.3133	0.3474	0.0140	0.3614		1,436.5862	1,436.5862	0.0484	1.0200e-003	1,438.1018

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	3.0270	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0308	0.0308	8.0000e-005		0.0328
Energy	5.1200e-003	0.0465	0.0391	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003		55.8330	55.8330	1.0700e-003	1.0200e-003	56.1648
Mobile	0.2837	1.3365	3.6866	0.0136	1.2985	0.0112	1.3097	0.3474	0.0104	0.3578		1,380.7224	1,380.7224	0.0473		1,381.9043
Total	3.3158	1.3831	3.7400	0.0139	1.2985	0.0148	1.3133	0.3474	0.0140	0.3614		1,436.5862	1,436.5862	0.0484	1.0200e-003	1,438.1018

2600 Moraga Road - AQ Run - 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	0.01	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	Site Preparation	Site Preparation	7/1/2021	8/1/2021	7	32	
2	Grading	Grading	8/2/2021	9/1/2021	7	31	
3	Building Construction	Building Construction	9/2/2021	7/31/2022	7	333	
4	Paving	Paving	5/1/2022	5/31/2022	7	31	
5	Architectural Coating	Architectural Coating	5/1/2022	5/31/2022	7	31	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 15.5

Acres of Paving: 1.23

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 186,614; Non-Residential Outdoor: 62,205; Striped Parking Area: 336 (Architectural Coating – sqft)

OffRoad Equipment

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	146.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	55.00	21.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Winter

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

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

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Winter

3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0613	0.0418	0.4137	1.3200e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		131.3166	131.3166	2.9700e-003		131.3909
Total	0.0613	0.0418	0.4137	1.3200e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		131.3166	131.3166	2.9700e-003		131.3909

Mitigated Construction On-Site

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

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Winter

3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0613	0.0418	0.4137	1.3200e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		131.3166	131.3166	2.9700e-003		131.3909
Total	0.0613	0.0418	0.4137	1.3200e-003	0.1479	9.3000e-004	0.1488	0.0392	8.6000e-004	0.0401		131.3166	131.3166	2.9700e-003		131.3909

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5566	0.0000	6.5566	3.3681	0.0000	3.3681			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
Total	2.2903	24.7367	15.8575	0.0296	6.5566	1.1599	7.7165	3.3681	1.0671	4.4353		2,871.9285	2,871.9285	0.9288		2,895.1495

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Winter

3.3 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	0.0377	1.2753	0.2820	3.6300e-003	0.0823	3.9800e-003	0.0863	0.0226	3.8000e-003	0.0264		388.8831	388.8831	0.0206		389.3976
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0511	0.0348	0.3447	1.1000e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		109.4305	109.4305	2.4800e-003		109.4924
Total	0.0888	1.3101	0.6267	4.7300e-003	0.2055	4.7600e-003	0.2103	0.0552	4.5100e-003	0.0598		498.3136	498.3136	0.0231		498.8900

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5566	0.0000	6.5566	3.3681	0.0000	3.3681			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495
Total	2.2903	24.7367	15.8575	0.0296	6.5566	1.1599	7.7165	3.3681	1.0671	4.4353	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Winter

3.3 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	0.0377	1.2753	0.2820	3.6300e-003	0.0823	3.9800e-003	0.0863	0.0226	3.8000e-003	0.0264		388.8831	388.8831	0.0206		389.3976
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0511	0.0348	0.3447	1.1000e-003	0.1232	7.8000e-004	0.1240	0.0327	7.1000e-004	0.0334		109.4305	109.4305	2.4800e-003		109.4924
Total	0.0888	1.3101	0.6267	4.7300e-003	0.2055	4.7600e-003	0.2103	0.0552	4.5100e-003	0.0598		498.3136	498.3136	0.0231		498.8900

3.4 Building Construction - 2021

Unmitigated Construction On-Site

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

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Winter

3.4 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	0.1873	0.1277	1.2640	4.0300e-003	0.4518	2.8400e-003	0.4547	0.1198	2.6200e-003	0.1225		401.2452	401.2452	9.0800e-003		401.4721
Total	0.2563	2.3165	1.8522	9.6100e-003	0.5940	7.7100e-003	0.6017	0.1608	7.2700e-003	0.1680		992.6622	992.6622	0.0399		993.6594

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Winter

3.4 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	0.1873	0.1277	1.2640	4.0300e-003	0.4518	2.8400e-003	0.4547	0.1198	2.6200e-003	0.1225		401.2452	401.2452	9.0800e-003		401.4721
Total	0.2563	2.3165	1.8522	9.6100e-003	0.5940	7.7100e-003	0.6017	0.1608	7.2700e-003	0.1680		992.6622	992.6622	0.0399		993.6594

3.4 Building Construction - 2022

Unmitigated Construction On-Site

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

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Winter

3.4 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	0.1749	0.1145	1.1599	3.8800e-003	0.4518	2.7800e-003	0.4546	0.1198	2.5600e-003	0.1224		386.5356	386.5356	8.1300e-003		386.7388
Total	0.2392	2.1867	1.7128	9.4000e-003	0.5940	7.0000e-003	0.6010	0.1608	6.6000e-003	0.1674		972.0973	972.0973	0.0376		973.0364

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Winter

3.4 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	0.1749	0.1145	1.1599	3.8800e-003	0.4518	2.7800e-003	0.4546	0.1198	2.5600e-003	0.1224		386.5356	386.5356	8.1300e-003		386.7388
Total	0.2392	2.1867	1.7128	9.4000e-003	0.5940	7.0000e-003	0.6010	0.1608	6.6000e-003	0.1674		972.0973	972.0973	0.0376		973.0364

3.5 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	0.9765	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504		1,805.1297	1,805.1297	0.5672		1,819.3091
Paving	0.1040					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0805	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504		1,805.1297	1,805.1297	0.5672		1,819.3091

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Winter

3.5 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	0.0636	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					
Off-Road	0.9765	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504	0.0000	1,805.1297	1,805.1297	0.5672		1,819.3091
Paving	0.1040					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0805	9.5221	12.1940	0.0189		0.4877	0.4877		0.4504	0.4504	0.0000	1,805.1297	1,805.1297	0.5672		1,819.3091

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Winter

3.5 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	0.0636	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

3.6 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	41.9030					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	42.1076	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

2600 Moraga Road - AQ Run - 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	0.0350	0.0229	0.2320	7.8000e-004	0.0904	5.6000e-004	0.0909	0.0240	5.1000e-004	0.0245		77.3071	77.3071	1.6300e-003		77.3478
Total	0.0350	0.0229	0.2320	7.8000e-004	0.0904	5.6000e-004	0.0909	0.0240	5.1000e-004	0.0245		77.3071	77.3071	1.6300e-003		77.3478

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	41.9030					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	42.1076	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

2600 Moraga Road - AQ Run - 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	0.0350	0.0229	0.2320	7.8000e-004	0.0904	5.6000e-004	0.0909	0.0240	5.1000e-004	0.0245		77.3071	77.3071	1.6300e-003		77.3478
Total	0.0350	0.0229	0.2320	7.8000e-004	0.0904	5.6000e-004	0.0909	0.0240	5.1000e-004	0.0245		77.3071	77.3071	1.6300e-003		77.3478

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

2600 Moraga Road - AQ Run - 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	0.2837	1.3365	3.6866	0.0136	1.2985	0.0112	1.3097	0.3474	0.0104	0.3578		1,380.7224	1,380.7224	0.0473		1,381.9043
Unmitigated	0.2837	1.3365	3.6866	0.0136	1.2985	0.0112	1.3097	0.3474	0.0104	0.3578		1,380.7224	1,380.7224	0.0473		1,381.9043

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	185.68	209.36	209.36	561,857	561,857
Total	185.68	209.36	209.36	561,857	561,857

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
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	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
Parking Lot	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
Unrefrigerated Warehouse-No Rail	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

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Winter

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	5.1200e-003	0.0465	0.0391	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003		55.8330	55.8330	1.0700e-003	1.0200e-003	56.1648
NaturalGas Unmitigated	5.1200e-003	0.0465	0.0391	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003		55.8330	55.8330	1.0700e-003	1.0200e-003	56.1648

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Winter

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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	474.58	5.1200e-003	0.0465	0.0391	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003		55.8330	55.8330	1.0700e-003	1.0200e-003	56.1648
Total		5.1200e-003	0.0465	0.0391	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003		55.8330	55.8330	1.0700e-003	1.0200e-003	56.1648

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					
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	0.47458	5.1200e-003	0.0465	0.0391	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003		55.8330	55.8330	1.0700e-003	1.0200e-003	56.1648
Total		5.1200e-003	0.0465	0.0391	2.8000e-004		3.5400e-003	3.5400e-003		3.5400e-003	3.5400e-003		55.8330	55.8330	1.0700e-003	1.0200e-003	56.1648

6.0 Area Detail

6.1 Mitigation Measures Area

2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Winter

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive 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	3.0270	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0308	0.0308	8.0000e-005		0.0328
Unmitigated	3.0273	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0308	0.0308	8.0000e-005		0.0328

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	0.3568					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6691					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3300e-003	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0308	0.0308	8.0000e-005		0.0328
Total	3.0273	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0308	0.0308	8.0000e-005		0.0328

2600 Moraga Road - AQ Run - 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	0.3566					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6691					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3300e-003	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0308	0.0308	8.0000e-005		0.0328
Total	3.0270	1.3000e-004	0.0144	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0308	0.0308	8.0000e-005		0.0328

7.0 Water Detail

7.1 Mitigation Measures Water

Use Water Efficient Irrigation System

Use Water Efficient Landscaping

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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2600 Moraga Road - AQ Run - Bay Area AQMD Air District, Winter

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

2600 Moraga Road - GHG Run - Bay Area AQMD Air District, Annual

**2600 Moraga Road - GHG Run
Bay Area AQMD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	124.62	1000sqft	2.86	124,620.00	0
Parking Lot	16.00	Space	1.23	6,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	64
Climate Zone	5			Operational Year	2030
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	292.85	CH4 Intensity (lb/MWhr)	0.013	N2O Intensity (lb/MWhr)	0.003

1.3 User Entered Comments & Non-Default Data

2600 Moraga Road - GHG Run - Bay Area AQMD Air District, Annual

Project Characteristics - Adjusted pursuant to 2030 RPS

Land Use - Per project site plans

Construction Phase - Per project site plans

Trips and VMT -

Grading - grading plan

Architectural Coating - Per BAAQMD Regulation 8, Rule 3 limit for traffic marking coatings

Vehicle Trips - Net new vehicle trips

Area Coating -

Energy Use - Reduced pursuant to 2019 Title 24

Water And Wastewater - Reduced 20 percent pursuant to 2019 Title 24. No septic tanks or facultative lagoons on site

Solid Waste -

Area Mitigation - Pursuant to BAAQMD Regulation 8, Rule 3 for traffic marking coatings

Water Mitigation -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Parking	150.00	100.00
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	150	100
tblConstructionPhase	NumDays	5.00	32.00
tblConstructionPhase	NumDays	8.00	31.00
tblConstructionPhase	NumDays	230.00	333.00
tblConstructionPhase	NumDays	18.00	31.00
tblConstructionPhase	NumDays	18.00	31.00

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tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblConstructionPhase	NumDaysWeek	5.00	7.00
tblEnergyUse	T24E	0.24	0.17
tblGrading	MaterialExported	0.00	1,171.00
tblLandUse	LotAcreage	0.14	1.23
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.013
tblProjectCharacteristics	CO2IntensityFactor	641.35	292.85
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblSolidWaste	SolidWasteGenerationRate	117.14	116.95
tblVehicleTrips	WD_TR	1.68	1.49
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	28,818,375.00	23,015,850.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

2.0 Emissions Summary

2600 Moraga Road - GHG Run - Bay Area AQMD Air District, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2021	9-30-2021	1.4684	1.4684
2	10-1-2021	12-31-2021	1.0077	1.0077
3	1-1-2022	3-31-2022	0.8887	0.8887
4	4-1-2022	6-30-2022	1.7385	1.7385
5	7-1-2022	9-30-2022	0.3053	0.3053
		Highest	1.7385	1.7385

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	0.5524	1.0000e-005	1.2900e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5100e-003	2.5100e-003	1.0000e-005	0.0000	2.6700e-003
Energy	9.3000e-004	8.4900e-003	7.1300e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	71.1216	71.1216	2.9200e-003	8.0000e-004	71.4341
Mobile	0.0339	0.1762	0.4102	1.9200e-003	0.2090	1.2600e-003	0.2102	0.0561	1.1700e-003	0.0572	0.0000	177.3007	177.3007	5.4000e-003	0.0000	177.4355
Waste						0.0000	0.0000		0.0000	0.0000	23.7398	0.0000	23.7398	1.4030	0.0000	58.8143
Water						0.0000	0.0000		0.0000	0.0000	8.1430	16.5431	24.6861	0.0288	0.0179	30.7328
Total	0.5872	0.1847	0.4186	1.9700e-003	0.2090	1.9100e-003	0.2109	0.0561	1.8200e-003	0.0579	31.8828	264.9678	296.8506	1.4401	0.0187	338.4194

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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	0.5523	1.0000e-005	1.2900e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5100e-003	2.5100e-003	1.0000e-005	0.0000	2.6700e-003
Energy	9.3000e-004	8.4900e-003	7.1300e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	71.1216	71.1216	2.9200e-003	8.0000e-004	71.4341
Mobile	0.0339	0.1762	0.4102	1.9200e-003	0.2090	1.2600e-003	0.2102	0.0561	1.1700e-003	0.0572	0.0000	177.3007	177.3007	5.4000e-003	0.0000	177.4355
Waste						0.0000	0.0000		0.0000	0.0000	23.7398	0.0000	23.7398	1.4030	0.0000	58.8143
Water						0.0000	0.0000		0.0000	0.0000	8.1430	16.5431	24.6861	0.0288	0.0179	30.7328
Total	0.5871	0.1847	0.4186	1.9700e-003	0.2090	1.9100e-003	0.2109	0.0561	1.8200e-003	0.0579	31.8828	264.9678	296.8506	1.4401	0.0187	338.4194

	ROG	NOx	CO	SO2	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	0.01	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

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/1/2021	8/1/2021	7	32	
2	Grading	Grading	8/2/2021	9/1/2021	7	31	
3	Building Construction	Building Construction	9/2/2021	7/31/2022	7	333	
4	Paving	Paving	5/1/2022	5/31/2022	7	31	
5	Architectural Coating	Architectural Coating	5/1/2022	5/31/2022	7	31	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 15.5

Acres of Paving: 1.23

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 186,930; Non-Residential Outdoor: 62,310; Striped Parking Area: 384 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	146.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	55.00	21.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2891	0.0000	0.2891	0.1589	0.0000	0.1589	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0622	0.6480	0.3385	6.1000e-004		0.0327	0.0327		0.0301	0.0301	0.0000	53.4972	53.4972	0.0173	0.0000	53.9297
Total	0.0622	0.6480	0.3385	6.1000e-004	0.2891	0.0327	0.3218	0.1589	0.0301	0.1890	0.0000	53.4972	53.4972	0.0173	0.0000	53.9297

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3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.8000e-004	6.1000e-004	6.4600e-003	2.0000e-005	2.2800e-003	1.0000e-005	2.2900e-003	6.1000e-004	1.0000e-005	6.2000e-004	0.0000	1.9238	1.9238	4.0000e-005	0.0000	1.9249
Total	8.8000e-004	6.1000e-004	6.4600e-003	2.0000e-005	2.2800e-003	1.0000e-005	2.2900e-003	6.1000e-004	1.0000e-005	6.2000e-004	0.0000	1.9238	1.9238	4.0000e-005	0.0000	1.9249

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2891	0.0000	0.2891	0.1589	0.0000	0.1589	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0622	0.6480	0.3385	6.1000e-004		0.0327	0.0327		0.0301	0.0301	0.0000	53.4971	53.4971	0.0173	0.0000	53.9296
Total	0.0622	0.6480	0.3385	6.1000e-004	0.2891	0.0327	0.3218	0.1589	0.0301	0.1890	0.0000	53.4971	53.4971	0.0173	0.0000	53.9296

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3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.8000e-004	6.1000e-004	6.4600e-003	2.0000e-005	2.2800e-003	1.0000e-005	2.2900e-003	6.1000e-004	1.0000e-005	6.2000e-004	0.0000	1.9238	1.9238	4.0000e-005	0.0000	1.9249
Total	8.8000e-004	6.1000e-004	6.4600e-003	2.0000e-005	2.2800e-003	1.0000e-005	2.2900e-003	6.1000e-004	1.0000e-005	6.2000e-004	0.0000	1.9238	1.9238	4.0000e-005	0.0000	1.9249

3.3 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					0.1016	0.0000	0.1016	0.0522	0.0000	0.0522	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0355	0.3834	0.2458	4.6000e-004		0.0180	0.0180		0.0165	0.0165	0.0000	40.3832	40.3832	0.0131	0.0000	40.7098
Total	0.0355	0.3834	0.2458	4.6000e-004	0.1016	0.0180	0.1196	0.0522	0.0165	0.0688	0.0000	40.3832	40.3832	0.0131	0.0000	40.7098

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3.3 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	5.8000e-004	0.0197	4.2000e-003	6.0000e-005	1.2300e-003	6.0000e-005	1.2900e-003	3.4000e-004	6.0000e-005	4.0000e-004	0.0000	5.5228	5.5228	2.8000e-004	0.0000	5.5298
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1000e-004	4.9000e-004	5.2100e-003	2.0000e-005	1.8400e-003	1.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.5531	1.5531	3.0000e-005	0.0000	1.5540
Total	1.2900e-003	0.0202	9.4100e-003	8.0000e-005	3.0700e-003	7.0000e-005	3.1400e-003	8.3000e-004	7.0000e-005	9.0000e-004	0.0000	7.0759	7.0759	3.1000e-004	0.0000	7.0838

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1016	0.0000	0.1016	0.0522	0.0000	0.0522	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0355	0.3834	0.2458	4.6000e-004		0.0180	0.0180		0.0165	0.0165	0.0000	40.3832	40.3832	0.0131	0.0000	40.7097
Total	0.0355	0.3834	0.2458	4.6000e-004	0.1016	0.0180	0.1196	0.0522	0.0165	0.0688	0.0000	40.3832	40.3832	0.0131	0.0000	40.7097

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3.3 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	5.8000e-004	0.0197	4.2000e-003	6.0000e-005	1.2300e-003	6.0000e-005	1.2900e-003	3.4000e-004	6.0000e-005	4.0000e-004	0.0000	5.5228	5.5228	2.8000e-004	0.0000	5.5298
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.1000e-004	4.9000e-004	5.2100e-003	2.0000e-005	1.8400e-003	1.0000e-005	1.8500e-003	4.9000e-004	1.0000e-005	5.0000e-004	0.0000	1.5531	1.5531	3.0000e-005	0.0000	1.5540
Total	1.2900e-003	0.0202	9.4100e-003	8.0000e-005	3.0700e-003	7.0000e-005	3.1400e-003	8.3000e-004	7.0000e-005	9.0000e-004	0.0000	7.0759	7.0759	3.1000e-004	0.0000	7.0838

3.4 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	0.1150	1.0546	1.0028	1.6300e-003		0.0580	0.0580		0.0545	0.0545	0.0000	140.1406	140.1406	0.0338	0.0000	140.9858
Total	0.1150	1.0546	1.0028	1.6300e-003		0.0580	0.0580		0.0545	0.0545	0.0000	140.1406	140.1406	0.0338	0.0000	140.9858

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3.4 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	4.0300e-003	0.1327	0.0331	3.4000e-004	8.3300e-003	2.9000e-004	8.6200e-003	2.4100e-003	2.8000e-004	2.6900e-003	0.0000	32.9497	32.9497	1.6200e-003	0.0000	32.9901
Worker	0.0102	7.0500e-003	0.0746	2.5000e-004	0.0263	1.7000e-004	0.0265	6.9900e-003	1.6000e-004	7.1500e-003	0.0000	22.2274	22.2274	5.0000e-004	0.0000	22.2398
Total	0.0142	0.1398	0.1078	5.9000e-004	0.0346	4.6000e-004	0.0351	9.4000e-003	4.4000e-004	9.8400e-003	0.0000	55.1770	55.1770	2.1200e-003	0.0000	55.2300

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	0.1150	1.0546	1.0028	1.6300e-003		0.0580	0.0580		0.0545	0.0545	0.0000	140.1404	140.1404	0.0338	0.0000	140.9856
Total	0.1150	1.0546	1.0028	1.6300e-003		0.0580	0.0580		0.0545	0.0545	0.0000	140.1404	140.1404	0.0338	0.0000	140.9856

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3.4 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	4.0300e-003	0.1327	0.0331	3.4000e-004	8.3300e-003	2.9000e-004	8.6200e-003	2.4100e-003	2.8000e-004	2.6900e-003	0.0000	32.9497	32.9497	1.6200e-003	0.0000	32.9901
Worker	0.0102	7.0500e-003	0.0746	2.5000e-004	0.0263	1.7000e-004	0.0265	6.9900e-003	1.6000e-004	7.1500e-003	0.0000	22.2274	22.2274	5.0000e-004	0.0000	22.2398
Total	0.0142	0.1398	0.1078	5.9000e-004	0.0346	4.6000e-004	0.0351	9.4000e-003	4.4000e-004	9.8400e-003	0.0000	55.1770	55.1770	2.1200e-003	0.0000	55.2300

3.4 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	0.1809	1.6553	1.7345	2.8500e-003		0.0858	0.0858		0.0807	0.0807	0.0000	245.6288	245.6288	0.0589	0.0000	247.0999
Total	0.1809	1.6553	1.7345	2.8500e-003		0.0858	0.0858		0.0807	0.0807	0.0000	245.6288	245.6288	0.0589	0.0000	247.0999

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3.4 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	6.5900e-003	0.2202	0.0546	5.9000e-004	0.0146	4.4000e-004	0.0150	4.2200e-003	4.2000e-004	4.6400e-003	0.0000	57.1639	57.1639	2.7100e-003	0.0000	57.2317
Worker	0.0167	0.0111	0.1202	4.1000e-004	0.0461	2.9000e-004	0.0464	0.0123	2.7000e-004	0.0125	0.0000	37.5161	37.5161	7.8000e-004	0.0000	37.5357
Total	0.0233	0.2313	0.1747	1.0000e-003	0.0607	7.3000e-004	0.0614	0.0165	6.9000e-004	0.0172	0.0000	94.6800	94.6800	3.4900e-003	0.0000	94.7674

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	0.1809	1.6553	1.7345	2.8500e-003		0.0858	0.0858		0.0807	0.0807	0.0000	245.6285	245.6285	0.0589	0.0000	247.0996
Total	0.1809	1.6553	1.7345	2.8500e-003		0.0858	0.0858		0.0807	0.0807	0.0000	245.6285	245.6285	0.0589	0.0000	247.0996

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3.4 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	6.5900e-003	0.2202	0.0546	5.9000e-004	0.0146	4.4000e-004	0.0150	4.2200e-003	4.2000e-004	4.6400e-003	0.0000	57.1639	57.1639	2.7100e-003	0.0000	57.2317
Worker	0.0167	0.0111	0.1202	4.1000e-004	0.0461	2.9000e-004	0.0464	0.0123	2.7000e-004	0.0125	0.0000	37.5161	37.5161	7.8000e-004	0.0000	37.5357
Total	0.0233	0.2313	0.1747	1.0000e-003	0.0607	7.3000e-004	0.0614	0.0165	6.9000e-004	0.0172	0.0000	94.6800	94.6800	3.4900e-003	0.0000	94.7674

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0151	0.1476	0.1890	2.9000e-004		7.5600e-003	7.5600e-003		6.9800e-003	6.9800e-003	0.0000	25.3826	25.3826	7.9800e-003	0.0000	25.5820
Paving	1.6100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0168	0.1476	0.1890	2.9000e-004		7.5600e-003	7.5600e-003		6.9800e-003	6.9800e-003	0.0000	25.3826	25.3826	7.9800e-003	0.0000	25.5820

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3.5 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	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					
Off-Road	0.0151	0.1476	0.1890	2.9000e-004		7.5600e-003	7.5600e-003		6.9800e-003	6.9800e-003	0.0000	25.3826	25.3826	7.9800e-003	0.0000	25.5819
Paving	1.6100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0168	0.1476	0.1890	2.9000e-004		7.5600e-003	7.5600e-003		6.9800e-003	6.9800e-003	0.0000	25.3826	25.3826	7.9800e-003	0.0000	25.5819

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3.5 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	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

3.6 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	0.6507					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	0.6539	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	4.9000e-004	3.2000e-004	3.5100e-003	1.0000e-005	1.3500e-003	1.0000e-005	1.3600e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.0972	1.0972	2.0000e-005	0.0000	1.0977
Total	4.9000e-004	3.2000e-004	3.5100e-003	1.0000e-005	1.3500e-003	1.0000e-005	1.3600e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.0972	1.0972	2.0000e-005	0.0000	1.0977

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	0.6507					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	0.6539	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	4.9000e-004	3.2000e-004	3.5100e-003	1.0000e-005	1.3500e-003	1.0000e-005	1.3600e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.0972	1.0972	2.0000e-005	0.0000	1.0977
Total	4.9000e-004	3.2000e-004	3.5100e-003	1.0000e-005	1.3500e-003	1.0000e-005	1.3600e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.0972	1.0972	2.0000e-005	0.0000	1.0977

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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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	0.0339	0.1762	0.4102	1.9200e-003	0.2090	1.2600e-003	0.2102	0.0561	1.1700e-003	0.0572	0.0000	177.3007	177.3007	5.4000e-003	0.0000	177.4355
Unmitigated	0.0339	0.1762	0.4102	1.9200e-003	0.2090	1.2600e-003	0.2102	0.0561	1.1700e-003	0.0572	0.0000	177.3007	177.3007	5.4000e-003	0.0000	177.4355

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	185.68	209.36	209.36	561,857	561,857
Total	185.68	209.36	209.36	561,857	561,857

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
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No Rail	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
Parking Lot	0.585795	0.036515	0.193581	0.106455	0.012789	0.005274	0.019465	0.028415	0.002699	0.001789	0.005626	0.000921	0.000676
Unrefrigerated Warehouse-No Rail	0.585795	0.036515	0.193581	0.106455	0.012789	0.005274	0.019465	0.028415	0.002699	0.001789	0.005626	0.000921	0.000676

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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	61.8778	61.8778	2.7500e-003	6.3000e-004	62.1354
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	61.8778	61.8778	2.7500e-003	6.3000e-004	62.1354
NaturalGas Mitigated	9.3000e-004	8.4900e-003	7.1300e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.2438	9.2438	1.8000e-004	1.7000e-004	9.2987
NaturalGas Unmitigated	9.3000e-004	8.4900e-003	7.1300e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.2438	9.2438	1.8000e-004	1.7000e-004	9.2987

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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					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	173222	9.3000e-004	8.4900e-003	7.1300e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.2438	9.2438	1.8000e-004	1.7000e-004	9.2987
Total		9.3000e-004	8.4900e-003	7.1300e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.2438	9.2438	1.8000e-004	1.7000e-004	9.2987

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	173222	9.3000e-004	8.4900e-003	7.1300e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.2438	9.2438	1.8000e-004	1.7000e-004	9.2987
Total		9.3000e-004	8.4900e-003	7.1300e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.2438	9.2438	1.8000e-004	1.7000e-004	9.2987

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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			
Parking Lot	2240	0.2976	1.0000e-005	0.0000	0.2988
Unrefrigerated Warehouse-No Rail	463586	61.5803	2.7300e-003	6.3000e-004	61.8366
Total		61.8778	2.7400e-003	6.3000e-004	62.1354

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	2240	0.2976	1.0000e-005	0.0000	0.2988
Unrefrigerated Warehouse-No Rail	463586	61.5803	2.7300e-003	6.3000e-004	61.8366
Total		61.8778	2.7400e-003	6.3000e-004	62.1354

6.0 Area Detail

6.1 Mitigation Measures Area

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Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive 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	0.5523	1.0000e-005	1.2900e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5100e-003	2.5100e-003	1.0000e-005	0.0000	2.6700e-003
Unmitigated	0.5524	1.0000e-005	1.2900e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5100e-003	2.5100e-003	1.0000e-005	0.0000	2.6700e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0651					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4871					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.2900e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5100e-003	2.5100e-003	1.0000e-005	0.0000	2.6700e-003
Total	0.5524	1.0000e-005	1.2900e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5100e-003	2.5100e-003	1.0000e-005	0.0000	2.6700e-003

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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	0.0651					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4871					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.2000e-004	1.0000e-005	1.2900e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5100e-003	2.5100e-003	1.0000e-005	0.0000	2.6700e-003
Total	0.5523	1.0000e-005	1.2900e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5100e-003	2.5100e-003	1.0000e-005	0.0000	2.6700e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Use Water Efficient Irrigation System

Use Water Efficient Landscaping

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	24.6861	0.0288	0.0179	30.7328
Unmitigated	24.6861	0.0288	0.0179	30.7328

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	23.0159 / 0	24.6861	0.0288	0.0179	30.7328
Total		24.6861	0.0288	0.0179	30.7328

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	23.0159 / 0	24.6861	0.0288	0.0179	30.7328
Total		24.6861	0.0288	0.0179	30.7328

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	23.7398	1.4030	0.0000	58.8143
Unmitigated	23.7398	1.4030	0.0000	58.8143

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	116.95	23.7398	1.4030	0.0000	58.8143
Total		23.7398	1.4030	0.0000	58.8143

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	116.95	23.7398	1.4030	0.0000	58.8143
Total		23.7398	1.4030	0.0000	58.8143

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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2600 Moraga Road - GHG Run - Bay Area AQMD Air District, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

2600 Moraga Road Self-Storage Project

Last Updated: 3/2/21

Compression-Ignition Engine Brake-Specific Fuel Consumption (BSFC) Factors [1]:

HP: 0 to 100	0.0588	HP: Greater than 100	0.0529
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Values above are expressed in gallons per horsepower-hour/BSFC.

CONSTRUCTION EQUIPMENT

Construction Equipment	#	Hours per		Load Factor	Construction Phase	Fuel Used (gallons)
		Day	Horsepower			
Tractors/Loaders/Backhoes	4	8	97	0.37	Site Preparation Phase	2,159.67
Rubber Tired Dozers	3	8	247	0.4	Site Preparation Phase	4,010.86
Graders	1	8	187	0.41	Grading Phase	1,005.07
Excavators	1	8	158	0.38	Grading Phase	787.07
Rubber Tired Dozers	1	8	247	0.4	Grading Phase	1,295.17
Tractors/Loaders/Backhoes	3	8	97	0.37	Grading Phase	1,569.13
Cranes	1	7	231	0.29	Building Construction Phase	8,254.13
Forklifts	3	8	89	0.2	Building Construction Phase	8,359.66
Generator Sets	1	8	84	0.74	Building Construction Phase	9,731.02
Tractors/Loaders/Backhoes	3	7	97	0.37	Building Construction Phase	14,748.57
Welders	1	8	46	0.45	Building Construction Phase	3,240.54
Air Compressors	1	6	78	0.48	Architectural Coating Phase	409.22
Cement and Mortar Mixers	2	6	9	0.56	Paving Phase	110.18
Pavers	1	8	130	0.42	Paving Phase	715.75
Paving Equipment	2	6	132	0.36	Paving Phase	934.41
Rollers	2	6	80	0.38	Paving Phase	664.55
Tractors/Loaders/Backhoes	1	8	97	0.37	Paving Phase	523.04
Total Fuel Used						58,518.04
						(Gallons)

Construction Phase	Days of Operation
Site Preparation Phase	32
Grading Phase	31
Building Construction Phase	333
Paving Phase	31
Architectural Coating Phase	31
Total Days	458

WORKER TRIPS

Constuction Phase	MPG [2]	Trips	Trip Length (miles)	Fuel Used
				(gallons)
Site Preparation Phase	24.4	18	10.8	254.95
Grading Phase	24.4	15	10.8	205.82
Building Construction Phase	24.4	55	10.8	8106.64
Paving Phase	24.4	20	10.8	274.43
Architectural Coating Phase	24.4	11	10.8	150.93
Fuel				8,992.77

HAULING AND VENDOR TRIPS

Trip Class	MPG [2]	Trips	Trip Length (miles)	Fuel Used (gallons)
HAULING TRIPS				

Demolition Phase	7.5	0	20.0	0.00
Site Preparation Phase	7.5	0	20.0	0.00
Grading Phase	7.5	146	20.0	389.33
Building Construction Phase	7.5	0	20.0	0.00
Paving Phase	7.5	0	20.0	0.00
Architectural Coating Phase	7.5	0	20.0	0.00

Fuel 389.33

VENDOR TRIPS

Demolition Phase	7.5	0	7.3	0.00
Site Preparation Phase	7.5	0	7.3	0.00
Grading Phase	7.5	0	7.3	0.00
Building Construction Phase	7.5	21	7.3	6806.52
Paving Phase	7.5	0	7.3	0.00
Architectural Coating Phase	7.5	0	7.3	0.00

Fuel 6,806.52

Total Gasoline Consumption (gallons)	8,992.77
Total Diesel Consumption (gallons)	65,713.89

Sources:

[1] United States Environmental Protection Agency. 2018. *Exhaust and Crankcase Emission Factors for Nonroad Compression-Ignition Engines in MOVES2014b*. July 2018. Available at: <https://nepis.epa.gov/Exe/ZyPDF.cgi?Dockey=P100UXEN.pdf>.

[2] United States Department of Transportation, Bureau of Transportation Statistics. 2019. *National Transportation Statistics 2019*. Available at: <https://www.bts.gov/topics/national-transportation-statistics>.

2600 Moraga Road Self-Storage Project

Last Updated: 3/2/2021

Populate one of the following tables (Leave the other blank):

Annual VMT	OR	Daily Vehicle Trips
Annual VMT: 561,857		Daily Vehicle Trips: Average Trip Distance:

Fleet Class	Fleet Mix	Fuel Economy (MPG) [1]	
Light Duty Auto (LDA)	0.578638	Passenger Vehicles	24.4
Light Duty Truck 1 (LDT1)	0.038775	Light-Med Duty Trucks	17.9
Light Duty Truck 2 (LDT2)	0.193686	Heavy Trucks/Other	7.5
Medium Duty Vehicle (MDV)	0.110919	Motorcycles	44
Light Heavy Duty 1 (LHD1)	0.015677		
Light Heavy Duty 2 (LHD2)	0.005341		
Medium Heavy Duty (MHD)	0.018293		
Heavy Heavy Duty (HHD)	0.026358		
Other Bus (OBUS)	0.002641		
Urban Bus (UBUS)	0.002200		
Motorcycle (MCY)	0.005832		
School Bus (SBUS)	0.000891		
Motorhome (MH)	0.000749		

Fleet Mix

Vehicle Type	Percent	Fuel Type	Annual VMT: VMT	Vehicle Trips: VMT	Fuel Consumption (Gallons)
Passenger Vehicles	57.86%	Gasoline	325112	0.00	13324.25
Light-Medium Duty Trucks	34.34%	Gasoline	192930	0.00	10778.24
Heavy Trucks/Other	7.22%	Diesel	40538	0.00	5405.06
Motorcycle	0.58%	Gasoline	3277	0.00	74.47

Total Gasoline Consumption (gallons)	24176.96
Total Diesel Consumption (gallons)	5405.06

Sources:

[1] United States Department of Transportation, Bureau of Transportation Statistics. 2019. National Transportation Statistics 2019. Available at: <https://www.bts.gov/topics/national-transportation-statistics>.

N2O Operational GHG Emission Mobile Calculations

Project Code & Title: 20-10339, 2600 Moraga Road Self-Storage Project

Vehicle Population Breakdown*	
5460005	Gasoline vehicles
271191	Diesel vehicles
95.3%	Gasoline vehicle %
4.7%	Diesel vehicle %

VMT per Vehicle Type	
561,857	Project VMT (CalEEMod output)
535271	Gasoline vehicle VMT
26586	Diesel vehicle VMT

Gasoline Vehicles	
95.3%	Gasoline vehicle %
0.2188	Tons per year mobile NOX emissions (annual output in CalEEMod)
0.21	Gasoline vehicle tons per year NOX emissions
0.0205	Tons per year N2O emissions for gasoline vehicles**
0.0186	Metric tons per year N2O emissions for gasoline vehicles

Diesel Vehicles	
1.60	grams N2O per gallon of fuel for diesel vehicles**
22.99	Diesel average miles per gallon*
0.06961	grams per mile N2O for diesel vehicles
1850.6	grams per year N2O for diesel vehicles
0.0018506	Metric tons per year N2O emissions for diesel vehicles

CO2e Emissions from N2O	
0.0205	Metric tons per year from gasoline + diesel vehicles
298	GWP of N2O***
6.1	CO2e emissions per year from N2O emissions from gasoline + diesel vehicles

Sources
<p>*Vehicle population source: EMFAC2017 (v1.0.3) Emissions Inventory Region Type: Air District Region: Bay Area AQMD Calendar Year: 2030 Season: Annual Vehicle Classification: EMFAC2011 Categories</p> <p>**Methodology source: EMFAC2017 Volume III - Technical Documentation https://www.arb.ca.gov/msei/emfac2011-faq.htm</p> <p>***GWP source: Intergovernmental Panel on Climate Change (IPCC). 2007. AR4 Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change.</p>