

Appendix A

Air Quality and Greenhouse Gas Emissions Modeling Results

1700-1730 Embarcadero Road Project - Santa Clara County, Summer

1700-1730 Embarcadero Road Project
Santa Clara County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Automobile Care Center	59.21	1000sqft	1.36	59,210.00	0
General Office Building	6.15	1000sqft	0.14	6,150.00	0
Enclosed Parking with Elevator	642.00	Space	5.78	256,800.00	0
Parking Lot	63.00	Space	0.57	25,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2021
Utility Company	City of Palo Alto Public Utilities				
CO2 Intensity (lb/MWhr)	354.26	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

1700-1730 Embarcadero Road Project - Santa Clara County, Summer

Project Characteristics -

Land Use - Enclosed parking - Inventory 300 + 322 other enclosed parking + 20 showroom = 642 enclosed Surface Parking 63

Construction Phase - Assuming 2 years construction per applicant

Grading - Imported material = cut 876 cubic yards - Fill 14,909 cubic yards = net fill required 14,033 cubic yards

Demolition - Demo of approx 10,000 sf restuarant and 7,126 sf Audi building

Vehicle Trips - Weekday rates per traffic study

Operational Off-Road Equipment - Emergency Generator based on 8 hours operation 32 days per year for testing

Stationary Sources - Emergency Generators and Fire Pumps - Emergency Generator based on 8 hours operation 32 days per year for testing

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	230.00	360.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	PhaseEndDate	11/20/2020	8/13/2021
tblConstructionPhase	PhaseEndDate	9/25/2020	5/21/2021
tblConstructionPhase	PhaseEndDate	9/27/2019	10/11/2019
tblConstructionPhase	PhaseEndDate	11/8/2019	1/3/2020
tblConstructionPhase	PhaseEndDate	10/23/2020	7/2/2021
tblConstructionPhase	PhaseEndDate	10/11/2019	11/22/2019
tblConstructionPhase	PhaseStartDate	10/24/2020	7/5/2021
tblConstructionPhase	PhaseStartDate	11/9/2019	1/6/2020
tblConstructionPhase	PhaseStartDate	10/12/2019	11/25/2019
tblConstructionPhase	PhaseStartDate	9/26/2020	5/24/2021
tblConstructionPhase	PhaseStartDate	9/28/2019	10/14/2019

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tblGrading	AcresOfGrading	15.00	10.00
tblGrading	MaterialImported	0.00	14,033.00
tblProjectCharacteristics	OperationalYear	2018	2021
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	84.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	8.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	32.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	2.00
tblVehicleTrips	WD_TR	23.72	6.74

2.0 Emissions Summary

1700-1730 Embarcadero Road Project - Santa Clara County, Summer

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	4.4035	45.6162	22.6736	0.0680	18.2141	2.3913	20.6054	9.9699	2.2000	12.1699	0.0000	7,019.459 9	7,019.459 9	1.1957	0.0000	7,047.279 7
2020	2.8610	39.5743	22.2948	0.0676	12.8127	1.3175	14.1302	4.9540	1.2137	6.1677	0.0000	6,911.108 2	6,911.108 2	1.1063	0.0000	6,938.766 7
2021	26.9511	23.4919	21.5384	0.0533	1.5278	0.9784	2.5061	0.4140	0.9199	1.3339	0.0000	5,279.928 8	5,279.928 8	0.7165	0.0000	5,297.657 5
Maximum	26.9511	45.6162	22.6736	0.0680	18.2141	2.3913	20.6054	9.9699	2.2000	12.1699	0.0000	7,019.459 9	7,019.459 9	1.1957	0.0000	7,047.279 7

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	4.4035	45.6162	22.6736	0.0680	18.2141	2.3913	20.6054	9.9699	2.2000	12.1699	0.0000	7,019.459 9	7,019.459 9	1.1957	0.0000	7,047.279 7
2020	2.8610	39.5743	22.2948	0.0676	12.8127	1.3175	14.1302	4.9540	1.2137	6.1677	0.0000	6,911.108 2	6,911.108 2	1.1063	0.0000	6,938.766 7
2021	26.9511	23.4919	21.5384	0.0533	1.5278	0.9784	2.5061	0.4140	0.9199	1.3339	0.0000	5,279.928 8	5,279.928 8	0.7165	0.0000	5,297.657 5
Maximum	26.9511	45.6162	22.6736	0.0680	18.2141	2.3913	20.6054	9.9699	2.2000	12.1699	0.0000	7,019.459 9	7,019.459 9	1.1957	0.0000	7,047.279 7

1700-1730 Embarcadero Road Project - Santa Clara County, 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.7249	7.2000e-004	0.0790	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.5000e-004		0.1798
Energy	0.0493	0.4483	0.3766	2.6900e-003		0.0341	0.0341		0.0341	0.0341		537.9688	537.9688	0.0103	9.8600e-003	541.1657
Mobile	1.9415	5.7767	14.1383	0.0408	3.3024	0.0354	3.3379	0.8815	0.0331	0.9146		4,116.5453	4,116.5453	0.1640		4,120.6453
Offroad	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Stationary	2.2053	7.1920	8.0031	0.0106		0.3245	0.3245		0.3245	0.3245		1,128.3070	1,128.3070	0.1582		1,132.2617
Total	5.9211	13.4177	22.5969	0.0541	3.3024	0.3942	3.6967	0.8815	0.3919	1.2734		5,782.9897	5,782.9897	0.3330	9.8600e-003	5,794.2526

1700-1730 Embarcadero Road Project - Santa Clara County, Summer

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.7249	7.2000e-004	0.0790	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.5000e-004		0.1798
Energy	0.0493	0.4483	0.3766	2.6900e-003		0.0341	0.0341		0.0341	0.0341		537.9688	537.9688	0.0103	9.8600e-003	541.1657
Mobile	1.9415	5.7767	14.1383	0.0408	3.3024	0.0354	3.3379	0.8815	0.0331	0.9146		4,116.5453	4,116.5453	0.1640		4,120.6453
Offroad	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Stationary	2.2053	7.1920	8.0031	0.0106		0.3245	0.3245		0.3245	0.3245		1,128.3070	1,128.3070	0.1582		1,132.2617
Total	5.9211	13.4177	22.5969	0.0541	3.3024	0.3942	3.6967	0.8815	0.3919	1.2734		5,782.9897	5,782.9897	0.3330	9.8600e-003	5,794.2526

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

3.0 Construction Detail

Construction Phase

1700-1730 Embarcadero Road Project - Santa Clara County, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2019	10/11/2019	5	30	
2	Site Preparation	Site Preparation	10/14/2019	11/22/2019	5	30	
3	Grading	Grading	11/25/2019	1/3/2020	5	30	
4	Building Construction	Building Construction	1/6/2020	5/21/2021	5	360	
5	Paving	Paving	5/24/2021	7/2/2021	5	30	
6	Architectural Coating	Architectural Coating	7/5/2021	8/13/2021	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 6.35

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 98,040; Non-Residential Outdoor: 32,680; Striped Parking Area: 16,920 (Architectural Coating – sqft)

OffRoad Equipment

1700-1730 Embarcadero Road Project - Santa Clara County, Summer

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

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	139.00	57.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	78.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	1,388.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5619	0.0000	0.5619	0.0851	0.0000	0.0851			0.0000			0.0000
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697		3,816.8994	3,816.8994	1.0618		3,843.4451
Total	3.5134	35.7830	22.0600	0.0388	0.5619	1.7949	2.3568	0.0851	1.6697	1.7548		3,816.8994	3,816.8994	1.0618		3,843.4451

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3.2 Demolition - 2019

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	0.0234	0.7929	0.1546	2.0900e-003	0.0454	3.0800e-003	0.0485	0.0125	2.9500e-003	0.0154		222.4156	222.4156	0.0101		222.6688
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	0.0570	0.0363	0.4590	1.2500e-003	0.1232	7.9000e-004	0.1240	0.0327	7.2000e-004	0.0334		124.7967	124.7967	3.3800e-003		124.8812
Total	0.0804	0.8291	0.6136	3.3400e-003	0.1687	3.8700e-003	0.1725	0.0451	3.6700e-003	0.0488		347.2123	347.2123	0.0135		347.5500

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5619	0.0000	0.5619	0.0851	0.0000	0.0851			0.0000			0.0000
Off-Road	3.5134	35.7830	22.0600	0.0388		1.7949	1.7949		1.6697	1.6697	0.0000	3,816.8994	3,816.8994	1.0618		3,843.4451
Total	3.5134	35.7830	22.0600	0.0388	0.5619	1.7949	2.3568	0.0851	1.6697	1.7548	0.0000	3,816.8994	3,816.8994	1.0618		3,843.4451

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3.2 Demolition - 2019

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	0.0234	0.7929	0.1546	2.0900e-003	0.0454	3.0800e-003	0.0485	0.0125	2.9500e-003	0.0154		222.4156	222.4156	0.0101		222.6688
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	0.0570	0.0363	0.4590	1.2500e-003	0.1232	7.9000e-004	0.1240	0.0327	7.2000e-004	0.0334		124.7967	124.7967	3.3800e-003		124.8812
Total	0.0804	0.8291	0.6136	3.3400e-003	0.1687	3.8700e-003	0.1725	0.0451	3.6700e-003	0.0488		347.2123	347.2123	0.0135		347.5500

3.3 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
Total	4.3350	45.5727	22.0630	0.0380	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298		3,766.4529	3,766.4529	1.1917		3,796.2445

1700-1730 Embarcadero Road Project - Santa Clara County, Summer

3.3 Site Preparation - 2019

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	0.0685	0.0435	0.5508	1.5000e-003	0.1479	9.4000e-004	0.1488	0.0392	8.7000e-004	0.0401		149.7561	149.7561	4.0500e-003		149.8574
Total	0.0685	0.0435	0.5508	1.5000e-003	0.1479	9.4000e-004	0.1488	0.0392	8.7000e-004	0.0401		149.7561	149.7561	4.0500e-003		149.8574

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	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
Total	4.3350	45.5727	22.0630	0.0380	18.0663	2.3904	20.4566	9.9307	2.1991	12.1298	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445

1700-1730 Embarcadero Road Project - Santa Clara County, Summer

3.3 Site Preparation - 2019

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	0.0685	0.0435	0.5508	1.5000e-003	0.1479	9.4000e-004	0.1488	0.0392	8.7000e-004	0.0401		149.7561	149.7561	4.0500e-003		149.8574
Total	0.0685	0.0435	0.5508	1.5000e-003	0.1479	9.4000e-004	0.1488	0.0392	8.7000e-004	0.0401		149.7561	149.7561	4.0500e-003		149.8574

3.4 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3756	0.0000	6.3756	3.3484	0.0000	3.3484			0.0000			0.0000
Off-Road	2.5805	28.3480	16.2934	0.0297		1.3974	1.3974		1.2856	1.2856		2,936.8068	2,936.8068	0.9292		2,960.0361
Total	2.5805	28.3480	16.2934	0.0297	6.3756	1.3974	7.7730	3.3484	1.2856	4.6340		2,936.8068	2,936.8068	0.9292		2,960.0361

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3.4 Grading - 2019

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	0.4156	14.1087	2.7514	0.0371	0.8765	0.0548	0.9313	0.2383	0.0525	0.2907		3,957.8564	3,957.8564	0.1802		3,962.3623
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	0.0570	0.0363	0.4590	1.2500e-003	0.1232	7.9000e-004	0.1240	0.0327	7.2000e-004	0.0334		124.7967	124.7967	3.3800e-003		124.8812
Total	0.4726	14.1450	3.2104	0.0384	0.9997	0.0556	1.0553	0.2710	0.0532	0.3241		4,082.6531	4,082.6531	0.1836		4,087.2435

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					6.3756	0.0000	6.3756	3.3484	0.0000	3.3484			0.0000			0.0000
Off-Road	2.5805	28.3480	16.2934	0.0297		1.3974	1.3974		1.2856	1.2856	0.0000	2,936.8068	2,936.8068	0.9292		2,960.0361
Total	2.5805	28.3480	16.2934	0.0297	6.3756	1.3974	7.7730	3.3484	1.2856	4.6340	0.0000	2,936.8068	2,936.8068	0.9292		2,960.0361

1700-1730 Embarcadero Road Project - Santa Clara County, Summer

3.4 Grading - 2019

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	0.4156	14.1087	2.7514	0.0371	0.8765	0.0548	0.9313	0.2383	0.0525	0.2907		3,957.8564	3,957.8564	0.1802		3,962.3623
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	0.0570	0.0363	0.4590	1.2500e-003	0.1232	7.9000e-004	0.1240	0.0327	7.2000e-004	0.0334		124.7967	124.7967	3.3800e-003		124.8812
Total	0.4726	14.1450	3.2104	0.0384	0.9997	0.0556	1.0553	0.2710	0.0532	0.3241		4,082.6531	4,082.6531	0.1836		4,087.2435

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3756	0.0000	6.3756	3.3484	0.0000	3.3484			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716		2,872.4851	2,872.4851	0.9290		2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	6.3756	1.2734	7.6490	3.3484	1.1716	4.5200		2,872.4851	2,872.4851	0.9290		2,895.7106

1700-1730 Embarcadero Road Project - Santa Clara County, Summer

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3801	13.1564	2.6638	0.0367	6.3139	0.0433	6.3572	1.5729	0.0415	1.6144		3,917.722 1	3,917.722 1	0.1744		3,922.081 2
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	0.0521	0.0320	0.4126	1.2100e-003	0.1232	7.7000e-004	0.1240	0.0327	7.1000e-004	0.0334		120.9010	120.9010	2.9600e-003		120.9749
Total	0.4322	13.1884	3.0764	0.0379	6.4371	0.0441	6.4812	1.6056	0.0422	1.6477		4,038.623 0	4,038.623 0	0.1773		4,043.056 1

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					6.3756	0.0000	6.3756	3.3484	0.0000	3.3484			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716	0.0000	2,872.485 1	2,872.485 1	0.9290		2,895.710 6
Total	2.4288	26.3859	16.0530	0.0297	6.3756	1.2734	7.6490	3.3484	1.1716	4.5200	0.0000	2,872.485 1	2,872.485 1	0.9290		2,895.710 6

1700-1730 Embarcadero Road Project - Santa Clara County, Summer

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.3801	13.1564	2.6638	0.0367	6.3139	0.0433	6.3572	1.5729	0.0415	1.6144		3,917.722 1	3,917.722 1	0.1744		3,922.081 2
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	0.0521	0.0320	0.4126	1.2100e-003	0.1232	7.7000e-004	0.1240	0.0327	7.1000e-004	0.0334		120.9010	120.9010	2.9600e-003		120.9749
Total	0.4322	13.1884	3.0764	0.0379	6.4371	0.0441	6.4812	1.6056	0.0422	1.6477		4,038.623 0	4,038.623 0	0.1773		4,043.056 1

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.063 1	2,553.063 1	0.6229		2,568.634 5

1700-1730 Embarcadero Road Project - Santa Clara County, Summer

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2215	6.4100	1.6234	0.0157	0.3859	0.0319	0.4178	0.1111	0.0306	0.1416		1,660.4036	1,660.4036	0.0728		1,662.2247
Worker	0.4832	0.2967	3.8230	0.0112	1.1419	7.1200e-003	1.1490	0.3029	6.5600e-003	0.3094		1,120.3489	1,120.3489	0.0274		1,121.0343
Total	0.7046	6.7066	5.4463	0.0270	1.5278	0.0391	1.5668	0.4140	0.0371	0.4511		2,780.7525	2,780.7525	0.1003		2,783.2590

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	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

1700-1730 Embarcadero Road Project - Santa Clara County, Summer

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2215	6.4100	1.6234	0.0157	0.3859	0.0319	0.4178	0.1111	0.0306	0.1416		1,660.4036	1,660.4036	0.0728		1,662.2247
Worker	0.4832	0.2967	3.8230	0.0112	1.1419	7.1200e-003	1.1490	0.3029	6.5600e-003	0.3094		1,120.3489	1,120.3489	0.0274		1,121.0343
Total	0.7046	6.7066	5.4463	0.0270	1.5278	0.0391	1.5668	0.4140	0.0371	0.4511		2,780.7525	2,780.7525	0.1003		2,783.2590

3.5 Building Construction - 2021

Unmitigated Construction On-Site

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

1700-1730 Embarcadero Road Project - Santa Clara County, Summer

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1817	5.7946	1.4604	0.0156	0.3859	0.0128	0.3987	0.1111	0.0123	0.1234		1,645.1298	1,645.1298	0.0686		1,646.8438
Worker	0.4476	0.2652	3.5028	0.0109	1.1419	6.9400e-003	1.1488	0.3029	6.3900e-003	0.3093		1,081.4351	1,081.4351	0.0246		1,082.0494
Total	0.6293	6.0598	4.9632	0.0264	1.5278	0.0198	1.5475	0.4140	0.0186	0.4326		2,726.5649	2,726.5649	0.0931		2,728.8932

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

1700-1730 Embarcadero Road Project - Santa Clara County, Summer

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1817	5.7946	1.4604	0.0156	0.3859	0.0128	0.3987	0.1111	0.0123	0.1234		1,645.1298	1,645.1298	0.0686		1,646.8438
Worker	0.4476	0.2652	3.5028	0.0109	1.1419	6.9400e-003	1.1488	0.3029	6.3900e-003	0.3093		1,081.4351	1,081.4351	0.0246		1,082.0494
Total	0.6293	6.0598	4.9632	0.0264	1.5278	0.0198	1.5475	0.4140	0.0186	0.4326		2,726.5649	2,726.5649	0.0931		2,728.8932

3.6 Paving - 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	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0498					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3053	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

1700-1730 Embarcadero Road Project - Santa Clara County, Summer

3.6 Paving - 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	0.0483	0.0286	0.3780	1.1700e-003	0.1232	7.5000e-004	0.1240	0.0327	6.9000e-004	0.0334		116.7016	116.7016	2.6500e-003		116.7679
Total	0.0483	0.0286	0.3780	1.1700e-003	0.1232	7.5000e-004	0.1240	0.0327	6.9000e-004	0.0334		116.7016	116.7016	2.6500e-003		116.7679

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	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.0498					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3053	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

1700-1730 Embarcadero Road Project - Santa Clara County, Summer

3.6 Paving - 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	0.0483	0.0286	0.3780	1.1700e-003	0.1232	7.5000e-004	0.1240	0.0327	6.9000e-004	0.0334		116.7016	116.7016	2.6500e-003		116.7679
Total	0.0483	0.0286	0.3780	1.1700e-003	0.1232	7.5000e-004	0.1240	0.0327	6.9000e-004	0.0334		116.7016	116.7016	2.6500e-003		116.7679

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	26.6420					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	26.8609	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

1700-1730 Embarcadero Road Project - Santa Clara County, Summer

3.7 Architectural Coating - 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	0.0902	0.0534	0.7056	2.1900e-003	0.2300	1.4000e-003	0.2314	0.0610	1.2900e-003	0.0623		217.8431	217.8431	4.9500e-003		217.9668
Total	0.0902	0.0534	0.7056	2.1900e-003	0.2300	1.4000e-003	0.2314	0.0610	1.2900e-003	0.0623		217.8431	217.8431	4.9500e-003		217.9668

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	26.6420					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	26.8609	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

1700-1730 Embarcadero Road Project - Santa Clara County, Summer

3.7 Architectural Coating - 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	0.0902	0.0534	0.7056	2.1900e-003	0.2300	1.4000e-003	0.2314	0.0610	1.2900e-003	0.0623		217.8431	217.8431	4.9500e-003		217.9668
Total	0.0902	0.0534	0.7056	2.1900e-003	0.2300	1.4000e-003	0.2314	0.0610	1.2900e-003	0.0623		217.8431	217.8431	4.9500e-003		217.9668

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

1700-1730 Embarcadero Road Project - Santa Clara County, 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	1.9415	5.7767	14.1383	0.0408	3.3024	0.0354	3.3379	0.8815	0.0331	0.9146		4,116.5453	4,116.5453	0.1640		4,120.6453
Unmitigated	1.9415	5.7767	14.1383	0.0408	3.3024	0.0354	3.3379	0.8815	0.0331	0.9146		4,116.5453	4,116.5453	0.1640		4,120.6453

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	399.08	1,404.46	703.41	583,943	583,943
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	67.83	15.13	6.46	123,161	123,161
Parking Lot	0.00	0.00	0.00		
Total	466.91	1,419.59	709.87	707,104	707,104

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
Automobile Care Center	9.50	7.30	7.30	33.00	48.00	19.00	21	51	28
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

1700-1730 Embarcadero Road Project - Santa Clara County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.607897	0.037434	0.184004	0.107261	0.014919	0.004991	0.012447	0.020659	0.002115	0.001554	0.005334	0.000623	0.000761
General Office Building	0.607897	0.037434	0.184004	0.107261	0.014919	0.004991	0.012447	0.020659	0.002115	0.001554	0.005334	0.000623	0.000761
Enclosed Parking with Elevator	0.607897	0.037434	0.184004	0.107261	0.014919	0.004991	0.012447	0.020659	0.002115	0.001554	0.005334	0.000623	0.000761
Parking Lot	0.607897	0.037434	0.184004	0.107261	0.014919	0.004991	0.012447	0.020659	0.002115	0.001554	0.005334	0.000623	0.000761

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0493	0.4483	0.3766	2.6900e-003		0.0341	0.0341		0.0341	0.0341		537.9688	537.9688	0.0103	9.8600e-003	541.1657
NaturalGas Unmitigated	0.0493	0.4483	0.3766	2.6900e-003		0.0341	0.0341		0.0341	0.0341		537.9688	537.9688	0.0103	9.8600e-003	541.1657

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5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Automobile Care Center	4295.56	0.0463	0.4211	0.3538	2.5300e-003		0.0320	0.0320		0.0320	0.0320		505.3605	505.3605	9.6900e-003	9.2600e-003	508.3636
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	277.171	2.9900e-003	0.0272	0.0228	1.6000e-004		2.0700e-003	2.0700e-003		2.0700e-003	2.0700e-003		32.6084	32.6084	6.2000e-004	6.0000e-004	32.8022
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
Total		0.0493	0.4483	0.3766	2.6900e-003		0.0341	0.0341		0.0341	0.0341		537.9688	537.9688	0.0103	9.8600e-003	541.1657

1700-1730 Embarcadero Road Project - Santa Clara County, Summer

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Automobile Care Center	4.29556	0.0463	0.4211	0.3538	2.5300e-003		0.0320	0.0320		0.0320	0.0320		505.3605	505.3605	9.6900e-003	9.2600e-003	508.3636
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0.277171	2.9900e-003	0.0272	0.0228	1.6000e-004		2.0700e-003	2.0700e-003		2.0700e-003	2.0700e-003		32.6084	32.6084	6.2000e-004	6.0000e-004	32.8022
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
Total		0.0493	0.4483	0.3766	2.6900e-003		0.0341	0.0341		0.0341	0.0341		537.9688	537.9688	0.0103	9.8600e-003	541.1657

6.0 Area Detail

6.1 Mitigation Measures Area

1700-1730 Embarcadero Road Project - Santa Clara County, 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	1.7249	7.2000e-004	0.0790	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.5000e-004		0.1798
Unmitigated	1.7249	7.2000e-004	0.0790	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.5000e-004		0.1798

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	0.2190					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4986					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.3800e-003	7.2000e-004	0.0790	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.5000e-004		0.1798
Total	1.7250	7.2000e-004	0.0790	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.5000e-004		0.1798

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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	0.2190					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.4986					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.3800e-003	7.2000e-004	0.0790	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.5000e-004		0.1798
Total	1.7250	7.2000e-004	0.0790	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004		0.1686	0.1686	4.5000e-004		0.1798

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Generator Sets	0	8.00	260	84	0.74	Diesel

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UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Equipment Type	lb/day										lb/day						
Generator Sets	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000			0.0000

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	2	8	32	84	0.73	Diesel

Boilers

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

Equipment Type	Number
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10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (75 - 100 HP)	2.2053	7.1920	8.0031	0.0106		0.3245	0.3245		0.3245	0.3245		1,128.3070	1,128.3070	0.1582		1,132.2617
Total	2.2053	7.1920	8.0031	0.0106		0.3245	0.3245		0.3245	0.3245		1,128.3070	1,128.3070	0.1582		1,132.2617

11.0 Vegetation

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Automobile Care Center	59.21	1000sqft	1.36	59,210.00	0
General Office Building	6.15	1000sqft	0.14	6,150.00	0
Enclosed Parking with Elevator	642.00	Space	5.78	256,800.00	0
Parking Lot	63.00	Space	0.57	25,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2021
Utility Company	City of Palo Alto Public Utilities				
CO2 Intensity (lb/MW hr)	354.26	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use - Enclosed parking - Inventory 300 + 322 other enclosed parking + 20 showroom = 642 enclosed Surface Parking 63

Construction Phase - Assuming 2 years construction per applicant

Grading - Imported material = cut 876 cubic yards - Fill 14,909 cubic yards = net fill required 14,033 cubic yards

Demolition - Demo of approx 10,000 sf restaurant and 7,126 sf Audi building

Vehicle Trips - Weekday rates per traffic study

Operational Off-Road Equipment - Emergency Generator based on 8 hours operation 32 days per year for testing

Stationary Sources - Emergency Generators and Fire Pumps - Emergency Generator based on 8 hours operation 32 days per year for testing

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	230.00	360.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	PhaseEndDate	11/20/2020	8/13/2021
tblConstructionPhase	PhaseEndDate	9/25/2020	5/21/2021
tblConstructionPhase	PhaseEndDate	9/27/2019	10/11/2019
tblConstructionPhase	PhaseEndDate	11/8/2019	1/3/2020
tblConstructionPhase	PhaseEndDate	10/23/2020	7/2/2021
tblConstructionPhase	PhaseEndDate	10/11/2019	11/22/2019
tblConstructionPhase	PhaseStartDate	10/24/2020	7/5/2021
tblConstructionPhase	PhaseStartDate	11/9/2019	1/6/2020
tblConstructionPhase	PhaseStartDate	10/12/2019	11/25/2019
tblConstructionPhase	PhaseStartDate	9/26/2020	5/24/2021
tblConstructionPhase	PhaseStartDate	9/28/2019	10/14/2019

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tblGrading	AcresOfGrading	15.00	10.00
tblGrading	MaterialImported	0.00	14,033.00
tblProjectCharacteristics	OperationalYear	2018	2021
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	84.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	8.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	32.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	2.00
tblVehicleTrips	WD_TR	23.72	6.74

2.0 Emissions Summary

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2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.1611	1.8115	0.9421	2.1400e-003	0.3927	0.0825	0.4752	0.2052	0.0762	0.2814	0.0000	195.1966	195.1966	0.0446	0.0000	196.3110
2020	0.3679	3.4278	2.8850	6.9500e-003	0.2962	0.1517	0.4480	0.1046	0.1427	0.2472	0.0000	624.7043	624.7043	0.0865	0.0000	626.8677
2021	0.5515	1.4092	1.3382	3.0800e-003	0.0797	0.0610	0.1408	0.0216	0.0573	0.0789	0.0000	275.7242	275.7242	0.0426	0.0000	276.7890
Maximum	0.5515	3.4278	2.8850	6.9500e-003	0.3927	0.1517	0.4752	0.2052	0.1427	0.2814	0.0000	624.7043	624.7043	0.0865	0.0000	626.8677

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.1611	1.8115	0.9421	2.1400e-003	0.3927	0.0825	0.4752	0.2052	0.0762	0.2814	0.0000	195.1964	195.1964	0.0446	0.0000	196.3108
2020	0.3679	3.4278	2.8850	6.9500e-003	0.2962	0.1517	0.4480	0.1046	0.1427	0.2472	0.0000	624.7039	624.7039	0.0865	0.0000	626.8673
2021	0.5515	1.4092	1.3382	3.0800e-003	0.0797	0.0610	0.1408	0.0216	0.0573	0.0789	0.0000	275.7240	275.7240	0.0426	0.0000	276.7888
Maximum	0.5515	3.4278	2.8850	6.9500e-003	0.3927	0.1517	0.4752	0.2052	0.1427	0.2814	0.0000	624.7039	624.7039	0.0865	0.0000	626.8673

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-1-2019	11-30-2019	1.4020	1.4020
2	12-1-2019	2-29-2020	1.1220	1.1220
3	3-1-2020	5-31-2020	0.9456	0.9456
4	6-1-2020	8-31-2020	0.9436	0.9436
5	9-1-2020	11-30-2020	0.9373	0.9373
6	12-1-2020	2-28-2021	0.8714	0.8714
7	3-1-2021	5-31-2021	0.8046	0.8046
8	6-1-2021	8-31-2021	0.5710	0.5710
		Highest	1.4020	1.4020

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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3141	7.0000e-005	7.1100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0138	0.0138	4.0000e-005	0.0000	0.0147
Energy	9.0000e-003	0.0818	0.0687	4.9000e-004		6.2200e-003	6.2200e-003		6.2200e-003	6.2200e-003	0.0000	468.8743	468.8743	0.0328	8.0700e-003	472.0978
Mobile	0.1316	0.4733	1.1530	3.1600e-003	0.2629	2.9000e-003	0.2658	0.0704	2.7100e-003	0.0731	0.0000	288.9597	288.9597	0.0122	0.0000	289.2646
Offroad	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	4.4100e-003	0.0144	0.0160	2.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	2.0472	2.0472	2.9000e-004	0.0000	2.0543
Waste						0.0000	0.0000		0.0000	0.0000	47.0736	0.0000	47.0736	2.7820	0.0000	116.6229
Water						0.0000	0.0000		0.0000	0.0000	2.1141	8.0909	10.2050	0.2178	5.2600e-003	17.2186
Total	0.4591	0.5696	1.2449	3.6700e-003	0.2629	9.8000e-003	0.2727	0.0704	9.6100e-003	0.0800	49.1877	767.9859	817.1735	3.0451	0.0133	897.2728

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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	0.3141	7.0000e-005	7.1100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0138	0.0138	4.0000e-005	0.0000	0.0147
Energy	9.0000e-003	0.0818	0.0687	4.9000e-004		6.2200e-003	6.2200e-003		6.2200e-003	6.2200e-003	0.0000	468.8743	468.8743	0.0328	8.0700e-003	472.0978
Mobile	0.1316	0.4733	1.1530	3.1600e-003	0.2629	2.9000e-003	0.2658	0.0704	2.7100e-003	0.0731	0.0000	288.9597	288.9597	0.0122	0.0000	289.2646
Offroad	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Stationary	4.4100e-003	0.0144	0.0160	2.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	2.0472	2.0472	2.9000e-004	0.0000	2.0543
Waste						0.0000	0.0000		0.0000	0.0000	47.0736	0.0000	47.0736	2.7820	0.0000	116.6229
Water						0.0000	0.0000		0.0000	0.0000	2.1141	8.0909	10.2050	0.2178	5.2600e-003	17.2186
Total	0.4591	0.5696	1.2449	3.6700e-003	0.2629	9.8000e-003	0.2727	0.0704	9.6100e-003	0.0800	49.1877	767.9859	817.1735	3.0451	0.0133	897.2728

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

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2019	10/11/2019	5	30	
2	Site Preparation	Site Preparation	10/14/2019	11/22/2019	5	30	
3	Grading	Grading	11/25/2019	1/3/2020	5	30	
4	Building Construction	Building Construction	1/6/2020	5/21/2021	5	360	
5	Paving	Paving	5/24/2021	7/2/2021	5	30	
6	Architectural Coating	Architectural Coating	7/5/2021	8/13/2021	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 6.35

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 98,040; Non-Residential Outdoor: 32,680; Striped Parking Area: 16,920 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	28.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	139.00	57.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	78.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	1,388.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.4300e-003	0.0000	8.4300e-003	1.2800e-003	0.0000	1.2800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0527	0.5367	0.3309	5.8000e-004		0.0269	0.0269		0.0250	0.0250	0.0000	51.9395	51.9395	0.0145	0.0000	52.3007
Total	0.0527	0.5367	0.3309	5.8000e-004	8.4300e-003	0.0269	0.0354	1.2800e-003	0.0250	0.0263	0.0000	51.9395	51.9395	0.0145	0.0000	52.3007

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3.2 Demolition - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.5000e-004	0.0121	2.4000e-003	3.0000e-005	6.6000e-004	5.0000e-005	7.1000e-004	1.8000e-004	4.0000e-005	2.3000e-004	0.0000	3.0055	3.0055	1.4000e-004	0.0000	3.0090
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	8.2000e-004	6.1000e-004	6.2900e-003	2.0000e-005	1.7800e-003	1.0000e-005	1.8000e-003	4.7000e-004	1.0000e-005	4.9000e-004	0.0000	1.5797	1.5797	4.0000e-005	0.0000	1.5808
Total	1.1700e-003	0.0128	8.6900e-003	5.0000e-005	2.4400e-003	6.0000e-005	2.5100e-003	6.5000e-004	5.0000e-005	7.2000e-004	0.0000	4.5852	4.5852	1.8000e-004	0.0000	4.5898

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					8.4300e-003	0.0000	8.4300e-003	1.2800e-003	0.0000	1.2800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0527	0.5367	0.3309	5.8000e-004		0.0269	0.0269		0.0250	0.0250	0.0000	51.9394	51.9394	0.0145	0.0000	52.3007
Total	0.0527	0.5367	0.3309	5.8000e-004	8.4300e-003	0.0269	0.0354	1.2800e-003	0.0250	0.0263	0.0000	51.9394	51.9394	0.0145	0.0000	52.3007

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3.2 Demolition - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.5000e-004	0.0121	2.4000e-003	3.0000e-005	6.6000e-004	5.0000e-005	7.1000e-004	1.8000e-004	4.0000e-005	2.3000e-004	0.0000	3.0055	3.0055	1.4000e-004	0.0000	3.0090
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	8.2000e-004	6.1000e-004	6.2900e-003	2.0000e-005	1.7800e-003	1.0000e-005	1.8000e-003	4.7000e-004	1.0000e-005	4.9000e-004	0.0000	1.5797	1.5797	4.0000e-005	0.0000	1.5808
Total	1.1700e-003	0.0128	8.6900e-003	5.0000e-005	2.4400e-003	6.0000e-005	2.5100e-003	6.5000e-004	5.0000e-005	7.2000e-004	0.0000	4.5852	4.5852	1.8000e-004	0.0000	4.5898

3.3 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2710	0.0000	0.2710	0.1490	0.0000	0.1490	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0650	0.6836	0.3310	5.7000e-004		0.0359	0.0359		0.0330	0.0330	0.0000	51.2530	51.2530	0.0162	0.0000	51.6584
Total	0.0650	0.6836	0.3310	5.7000e-004	0.2710	0.0359	0.3069	0.1490	0.0330	0.1820	0.0000	51.2530	51.2530	0.0162	0.0000	51.6584

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3.3 Site Preparation - 2019

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	9.8000e-004	7.3000e-004	7.5400e-003	2.0000e-005	2.1400e-003	1.0000e-005	2.1600e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.8956	1.8956	5.0000e-005	0.0000	1.8969
Total	9.8000e-004	7.3000e-004	7.5400e-003	2.0000e-005	2.1400e-003	1.0000e-005	2.1600e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.8956	1.8956	5.0000e-005	0.0000	1.8969

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2710	0.0000	0.2710	0.1490	0.0000	0.1490	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0650	0.6836	0.3309	5.7000e-004		0.0359	0.0359		0.0330	0.0330	0.0000	51.2530	51.2530	0.0162	0.0000	51.6584
Total	0.0650	0.6836	0.3309	5.7000e-004	0.2710	0.0359	0.3069	0.1490	0.0330	0.1820	0.0000	51.2530	51.2530	0.0162	0.0000	51.6584

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3.3 Site Preparation - 2019

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	9.8000e-004	7.3000e-004	7.5400e-003	2.0000e-005	2.1400e-003	1.0000e-005	2.1600e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.8956	1.8956	5.0000e-005	0.0000	1.8969
Total	9.8000e-004	7.3000e-004	7.5400e-003	2.0000e-005	2.1400e-003	1.0000e-005	2.1600e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.8956	1.8956	5.0000e-005	0.0000	1.8969

3.4 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0956	0.0000	0.0956	0.0502	0.0000	0.0502	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0348	0.3827	0.2200	4.0000e-004		0.0189	0.0189		0.0174	0.0174	0.0000	35.9671	35.9671	0.0114	0.0000	36.2515
Total	0.0348	0.3827	0.2200	4.0000e-004	0.0956	0.0189	0.1145	0.0502	0.0174	0.0676	0.0000	35.9671	35.9671	0.0114	0.0000	36.2515

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3.4 Grading - 2019

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	5.6800e-003	0.1945	0.0384	5.0000e-004	0.0115	7.5000e-004	0.0122	3.1300e-003	7.1000e-004	3.8400e-003	0.0000	48.1345	48.1345	2.2600e-003	0.0000	48.1909
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	7.4000e-004	5.5000e-004	5.6600e-003	2.0000e-005	1.6100e-003	1.0000e-005	1.6200e-003	4.3000e-004	1.0000e-005	4.4000e-004	0.0000	1.4217	1.4217	4.0000e-005	0.0000	1.4227
Total	6.4200e-003	0.1950	0.0441	5.2000e-004	0.0131	7.6000e-004	0.0138	3.5600e-003	7.2000e-004	4.2800e-003	0.0000	49.5562	49.5562	2.3000e-003	0.0000	49.6136

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					0.0956	0.0000	0.0956	0.0502	0.0000	0.0502	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0348	0.3827	0.2200	4.0000e-004		0.0189	0.0189		0.0174	0.0174	0.0000	35.9670	35.9670	0.0114	0.0000	36.2515
Total	0.0348	0.3827	0.2200	4.0000e-004	0.0956	0.0189	0.1145	0.0502	0.0174	0.0676	0.0000	35.9670	35.9670	0.0114	0.0000	36.2515

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3.4 Grading - 2019

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	5.6800e-003	0.1945	0.0384	5.0000e-004	0.0115	7.5000e-004	0.0122	3.1300e-003	7.1000e-004	3.8400e-003	0.0000	48.1345	48.1345	2.2600e-003	0.0000	48.1909
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	7.4000e-004	5.5000e-004	5.6600e-003	2.0000e-005	1.6100e-003	1.0000e-005	1.6200e-003	4.3000e-004	1.0000e-005	4.4000e-004	0.0000	1.4217	1.4217	4.0000e-005	0.0000	1.4227
Total	6.4200e-003	0.1950	0.0441	5.2000e-004	0.0131	7.6000e-004	0.0138	3.5600e-003	7.2000e-004	4.2800e-003	0.0000	49.5562	49.5562	2.3000e-003	0.0000	49.6136

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0956	0.0000	0.0956	0.0502	0.0000	0.0502	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6400e-003	0.0396	0.0241	4.0000e-005		1.9100e-003	1.9100e-003		1.7600e-003	1.7600e-003	0.0000	3.9088	3.9088	1.2600e-003	0.0000	3.9404
Total	3.6400e-003	0.0396	0.0241	4.0000e-005	0.0956	1.9100e-003	0.0975	0.0502	1.7600e-003	0.0520	0.0000	3.9088	3.9088	1.2600e-003	0.0000	3.9404

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3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.8000e-004	0.0201	4.1200e-003	5.0000e-005	9.1100e-003	7.0000e-005	9.1700e-003	2.2700e-003	6.0000e-005	2.3300e-003	0.0000	5.2932	5.2932	2.4000e-004	0.0000	5.2993
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	5.0000e-005	5.6000e-004	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1530	0.1530	0.0000	0.0000	0.1531
Total	6.5000e-004	0.0202	4.6800e-003	5.0000e-005	9.2900e-003	7.0000e-005	9.3500e-003	2.3200e-003	6.0000e-005	2.3800e-003	0.0000	5.4462	5.4462	2.4000e-004	0.0000	5.4524

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					0.0956	0.0000	0.0956	0.0502	0.0000	0.0502	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6400e-003	0.0396	0.0241	4.0000e-005		1.9100e-003	1.9100e-003		1.7600e-003	1.7600e-003	0.0000	3.9088	3.9088	1.2600e-003	0.0000	3.9404
Total	3.6400e-003	0.0396	0.0241	4.0000e-005	0.0956	1.9100e-003	0.0975	0.0502	1.7600e-003	0.0520	0.0000	3.9088	3.9088	1.2600e-003	0.0000	3.9404

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3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.8000e-004	0.0201	4.1200e-003	5.0000e-005	9.1100e-003	7.0000e-005	9.1700e-003	2.2700e-003	6.0000e-005	2.3300e-003	0.0000	5.2932	5.2932	2.4000e-004	0.0000	5.2993
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	5.0000e-005	5.6000e-004	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1530	0.1530	0.0000	0.0000	0.1531
Total	6.5000e-004	0.0202	4.6800e-003	5.0000e-005	9.2900e-003	7.0000e-005	9.3500e-003	2.3200e-003	6.0000e-005	2.3800e-003	0.0000	5.4462	5.4462	2.4000e-004	0.0000	5.4524

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2745	2.4846	2.1819	3.4900e-003		0.1447	0.1447		0.1360	0.1360	0.0000	299.9349	299.9349	0.0732	0.0000	301.7643
Total	0.2745	2.4846	2.1819	3.4900e-003		0.1447	0.1447		0.1360	0.1360	0.0000	299.9349	299.9349	0.0732	0.0000	301.7643

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3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0293	0.8405	0.2239	2.0100e-003	0.0486	4.1600e-003	0.0527	0.0140	3.9800e-003	0.0180	0.0000	192.9840	192.9840	8.8500e-003	0.0000	193.2052
Worker	0.0598	0.0430	0.4505	1.3500e-003	0.1428	9.2000e-004	0.1437	0.0380	8.5000e-004	0.0388	0.0000	122.4303	122.4303	3.0000e-003	0.0000	122.5054
Total	0.0890	0.8834	0.6743	3.3600e-003	0.1913	5.0800e-003	0.1964	0.0520	4.8300e-003	0.0568	0.0000	315.4143	315.4143	0.0119	0.0000	315.7106

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	0.2745	2.4846	2.1819	3.4900e-003		0.1447	0.1447		0.1360	0.1360	0.0000	299.9346	299.9346	0.0732	0.0000	301.7639
Total	0.2745	2.4846	2.1819	3.4900e-003		0.1447	0.1447		0.1360	0.1360	0.0000	299.9346	299.9346	0.0732	0.0000	301.7639

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3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0293	0.8405	0.2239	2.0100e-003	0.0486	4.1600e-003	0.0527	0.0140	3.9800e-003	0.0180	0.0000	192.9840	192.9840	8.8500e-003	0.0000	193.2052
Worker	0.0598	0.0430	0.4505	1.3500e-003	0.1428	9.2000e-004	0.1437	0.0380	8.5000e-004	0.0388	0.0000	122.4303	122.4303	3.0000e-003	0.0000	122.5054
Total	0.0890	0.8834	0.6743	3.3600e-003	0.1913	5.0800e-003	0.1964	0.0520	4.8300e-003	0.0568	0.0000	315.4143	315.4143	0.0119	0.0000	315.7106

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0960	0.8803	0.8371	1.3600e-003		0.0484	0.0484		0.0455	0.0455	0.0000	116.9768	116.9768	0.0282	0.0000	117.6824
Total	0.0960	0.8803	0.8371	1.3600e-003		0.0484	0.0484		0.0455	0.0455	0.0000	116.9768	116.9768	0.0282	0.0000	117.6824

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3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.3900e-003	0.2958	0.0787	7.8000e-004	0.0189	6.6000e-004	0.0196	5.4800e-003	6.3000e-004	6.1000e-003	0.0000	74.5616	74.5616	3.2500e-003	0.0000	74.6428
Worker	0.0216	0.0150	0.1606	5.1000e-004	0.0557	3.5000e-004	0.0560	0.0148	3.2000e-004	0.0151	0.0000	46.0860	46.0860	1.0500e-003	0.0000	46.1122
Total	0.0310	0.3108	0.2393	1.2900e-003	0.0746	1.0100e-003	0.0756	0.0203	9.5000e-004	0.0212	0.0000	120.6476	120.6476	4.3000e-003	0.0000	120.7550

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	0.0960	0.8803	0.8371	1.3600e-003		0.0484	0.0484		0.0455	0.0455	0.0000	116.9767	116.9767	0.0282	0.0000	117.6822
Total	0.0960	0.8803	0.8371	1.3600e-003		0.0484	0.0484		0.0455	0.0455	0.0000	116.9767	116.9767	0.0282	0.0000	117.6822

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3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.3900e-003	0.2958	0.0787	7.8000e-004	0.0189	6.6000e-004	0.0196	5.4800e-003	6.3000e-004	6.1000e-003	0.0000	74.5616	74.5616	3.2500e-003	0.0000	74.6428
Worker	0.0216	0.0150	0.1606	5.1000e-004	0.0557	3.5000e-004	0.0560	0.0148	3.2000e-004	0.0151	0.0000	46.0860	46.0860	1.0500e-003	0.0000	46.1122
Total	0.0310	0.3108	0.2393	1.2900e-003	0.0746	1.0100e-003	0.0756	0.0203	9.5000e-004	0.0212	0.0000	120.6476	120.6476	4.3000e-003	0.0000	120.7550

3.6 Paving - 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	0.0188	0.1938	0.2198	3.4000e-004		0.0102	0.0102		9.3500e-003	9.3500e-003	0.0000	30.0352	30.0352	9.7100e-003	0.0000	30.2781
Paving	7.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0196	0.1938	0.2198	3.4000e-004		0.0102	0.0102		9.3500e-003	9.3500e-003	0.0000	30.0352	30.0352	9.7100e-003	0.0000	30.2781

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3.6 Paving - 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	6.9000e-004	4.8000e-004	5.1500e-003	2.0000e-005	1.7800e-003	1.0000e-005	1.8000e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.4772	1.4772	3.0000e-005	0.0000	1.4781
Total	6.9000e-004	4.8000e-004	5.1500e-003	2.0000e-005	1.7800e-003	1.0000e-005	1.8000e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.4772	1.4772	3.0000e-005	0.0000	1.4781

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	0.0188	0.1938	0.2198	3.4000e-004		0.0102	0.0102		9.3500e-003	9.3500e-003	0.0000	30.0352	30.0352	9.7100e-003	0.0000	30.2780
Paving	7.5000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0196	0.1938	0.2198	3.4000e-004		0.0102	0.0102		9.3500e-003	9.3500e-003	0.0000	30.0352	30.0352	9.7100e-003	0.0000	30.2780

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3.6 Paving - 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	6.9000e-004	4.8000e-004	5.1500e-003	2.0000e-005	1.7800e-003	1.0000e-005	1.8000e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.4772	1.4772	3.0000e-005	0.0000	1.4781
Total	6.9000e-004	4.8000e-004	5.1500e-003	2.0000e-005	1.7800e-003	1.0000e-005	1.8000e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.4772	1.4772	3.0000e-005	0.0000	1.4781

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3996					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2800e-003	0.0229	0.0273	4.0000e-005		1.4100e-003	1.4100e-003		1.4100e-003	1.4100e-003	0.0000	3.8299	3.8299	2.6000e-004	0.0000	3.8365
Total	0.4029	0.0229	0.0273	4.0000e-005		1.4100e-003	1.4100e-003		1.4100e-003	1.4100e-003	0.0000	3.8299	3.8299	2.6000e-004	0.0000	3.8365

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3.7 Architectural Coating - 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	1.2900e-003	9.0000e-004	9.6100e-003	3.0000e-005	3.3300e-003	2.0000e-005	3.3500e-003	8.9000e-004	2.0000e-005	9.1000e-004	0.0000	2.7575	2.7575	6.0000e-005	0.0000	2.7590
Total	1.2900e-003	9.0000e-004	9.6100e-003	3.0000e-005	3.3300e-003	2.0000e-005	3.3500e-003	8.9000e-004	2.0000e-005	9.1000e-004	0.0000	2.7575	2.7575	6.0000e-005	0.0000	2.7590

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	0.3996					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2800e-003	0.0229	0.0273	4.0000e-005		1.4100e-003	1.4100e-003		1.4100e-003	1.4100e-003	0.0000	3.8299	3.8299	2.6000e-004	0.0000	3.8365
Total	0.4029	0.0229	0.0273	4.0000e-005		1.4100e-003	1.4100e-003		1.4100e-003	1.4100e-003	0.0000	3.8299	3.8299	2.6000e-004	0.0000	3.8365

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3.7 Architectural Coating - 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	1.2900e-003	9.0000e-004	9.6100e-003	3.0000e-005	3.3300e-003	2.0000e-005	3.3500e-003	8.9000e-004	2.0000e-005	9.1000e-004	0.0000	2.7575	2.7575	6.0000e-005	0.0000	2.7590
Total	1.2900e-003	9.0000e-004	9.6100e-003	3.0000e-005	3.3300e-003	2.0000e-005	3.3500e-003	8.9000e-004	2.0000e-005	9.1000e-004	0.0000	2.7575	2.7575	6.0000e-005	0.0000	2.7590

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	0.1316	0.4733	1.1530	3.1600e-003	0.2629	2.9000e-003	0.2658	0.0704	2.7100e-003	0.0731	0.0000	288.9597	288.9597	0.0122	0.0000	289.2646
Unmitigated	0.1316	0.4733	1.1530	3.1600e-003	0.2629	2.9000e-003	0.2658	0.0704	2.7100e-003	0.0731	0.0000	288.9597	288.9597	0.0122	0.0000	289.2646

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Automobile Care Center	399.08	1,404.46	703.41	583,943	583,943
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	67.83	15.13	6.46	123,161	123,161
Parking Lot	0.00	0.00	0.00		
Total	466.91	1,419.59	709.87	707,104	707,104

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
Automobile Care Center	9.50	7.30	7.30	33.00	48.00	19.00	21	51	28
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Automobile Care Center	0.607897	0.037434	0.184004	0.107261	0.014919	0.004991	0.012447	0.020659	0.002115	0.001554	0.005334	0.000623	0.000761
General Office Building	0.607897	0.037434	0.184004	0.107261	0.014919	0.004991	0.012447	0.020659	0.002115	0.001554	0.005334	0.000623	0.000761
Enclosed Parking with Elevator	0.607897	0.037434	0.184004	0.107261	0.014919	0.004991	0.012447	0.020659	0.002115	0.001554	0.005334	0.000623	0.000761
Parking Lot	0.607897	0.037434	0.184004	0.107261	0.014919	0.004991	0.012447	0.020659	0.002115	0.001554	0.005334	0.000623	0.000761

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	379.8075	379.8075	0.0311	6.4300e-003	382.5017
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	379.8075	379.8075	0.0311	6.4300e-003	382.5017
NaturalGas Mitigated	9.0000e-003	0.0818	0.0687	4.9000e-004		6.2200e-003	6.2200e-003		6.2200e-003	6.2200e-003	0.0000	89.0668	89.0668	1.7100e-003	1.6300e-003	89.5961
NaturalGas Unmitigated	9.0000e-003	0.0818	0.0687	4.9000e-004		6.2200e-003	6.2200e-003		6.2200e-003	6.2200e-003	0.0000	89.0668	89.0668	1.7100e-003	1.6300e-003	89.5961

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5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	1.56788e+006	8.4500e-003	0.0769	0.0646	4.6000e-004		5.8400e-003	5.8400e-003		5.8400e-003	5.8400e-003	0.0000	83.6681	83.6681	1.6000e-003	1.5300e-003	84.1653
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	101168	5.5000e-004	4.9600e-003	4.1700e-003	3.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	5.3987	5.3987	1.0000e-004	1.0000e-004	5.4308
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
Total		9.0000e-003	0.0818	0.0687	4.9000e-004		6.2200e-003	6.2200e-003		6.2200e-003	6.2200e-003	0.0000	89.0668	89.0668	1.7000e-003	1.6300e-003	89.5961

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Automobile Care Center	1.56788e+006	8.4500e-003	0.0769	0.0646	4.6000e-004		5.8400e-003	5.8400e-003		5.8400e-003	5.8400e-003	0.0000	83.6681	83.6681	1.6000e-003	1.5300e-003	84.1653
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	101168	5.5000e-004	4.9600e-003	4.1700e-003	3.0000e-005		3.8000e-004	3.8000e-004		3.8000e-004	3.8000e-004	0.0000	5.3987	5.3987	1.0000e-004	1.0000e-004	5.4308
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
Total		9.0000e-003	0.0818	0.0687	4.9000e-004		6.2200e-003	6.2200e-003		6.2200e-003	6.2200e-003	0.0000	89.0668	89.0668	1.7000e-003	1.6300e-003	89.5961

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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			
Automobile Care Center	498548	80.1115	6.5600e-003	1.3600e-003	80.6798
Enclosed Parking with Elevator	1.73083e+006	278.1268	0.0228	4.7100e-003	280.0997
General Office Building	112053	18.0058	1.4700e-003	3.0000e-004	18.1335
Parking Lot	22176	3.5635	2.9000e-004	6.0000e-005	3.5887
Total		379.8075	0.0311	6.4300e-003	382.5017

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Automobile Care Center	498548	80.1115	6.5600e-003	1.3600e-003	80.6798
Enclosed Parking with Elevator	1.73083e+006	278.1268	0.0228	4.7100e-003	280.0997
General Office Building	112053	18.0058	1.4700e-003	3.0000e-004	18.1335
Parking Lot	22176	3.5635	2.9000e-004	6.0000e-005	3.5887
Total		379.8075	0.0311	6.4300e-003	382.5017

6.0 Area Detail

6.1 Mitigation Measures Area

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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	0.3141	7.0000e-005	7.1100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0138	0.0138	4.0000e-005	0.0000	0.0147
Unmitigated	0.3141	7.0000e-005	7.1100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0138	0.0138	4.0000e-005	0.0000	0.0147

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	0.0400					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2735					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.6000e-004	7.0000e-005	7.1100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0138	0.0138	4.0000e-005	0.0000	0.0147
Total	0.3141	7.0000e-005	7.1100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0138	0.0138	4.0000e-005	0.0000	0.0147

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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	0.0400					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2735					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.6000e-004	7.0000e-005	7.1100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0138	0.0138	4.0000e-005	0.0000	0.0147
Total	0.3141	7.0000e-005	7.1100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0138	0.0138	4.0000e-005	0.0000	0.0147

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	10.2050	0.2178	5.2600e-003	17.2186
Unmitigated	10.2050	0.2178	5.2600e-003	17.2186

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	5.57054 / 3.4142	8.5310	0.1821	4.4000e-003	14.3941
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.09306 / 0.669942	1.6740	0.0357	8.6000e-004	2.8244
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		10.2050	0.2178	5.2600e-003	17.2186

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Automobile Care Center	5.57054 / 3.4142	8.5310	0.1821	4.4000e-003	14.3941
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	1.09306 / 0.669942	1.6740	0.0357	8.6000e-004	2.8244
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		10.2050	0.2178	5.2600e-003	17.2186

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	47.0736	2.7820	0.0000	116.6229
Unmitigated	47.0736	2.7820	0.0000	116.6229

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	226.18	45.9125	2.7134	0.0000	113.7463
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	5.72	1.1611	0.0686	0.0000	2.8766
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		47.0736	2.7820	0.0000	116.6229

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Automobile Care Center	226.18	45.9125	2.7134	0.0000	113.7463
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	5.72	1.1611	0.0686	0.0000	2.8766
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		47.0736	2.7820	0.0000	116.6229

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Generator Sets	0	8.00	260	84	0.74	Diesel

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UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Generator Sets	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	2	8	32	84	0.73	Diesel

Boilers

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

Equipment Type	Number
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10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (75 - 100 HP)	4.4100e-003	0.0144	0.0160	2.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	2.0472	2.0472	2.9000e-004	0.0000	2.0543
Total	4.4100e-003	0.0144	0.0160	2.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	2.0472	2.0472	2.9000e-004	0.0000	2.0543

11.0 Vegetation

Greenhouse Gas Emission Worksheet

N₂O Mobile Emissions

1700-1730 Embarcadero Road

From CalEEMod v.2016.3.1 Vehicle Fleet Mix Output:

Annual VMT: 707,104

Vehicle Type	Percent Type	CH ₄ Emission Factor (g/mile)*	CH ₄ Emissions (g/mile)**	N ₂ O Emission Factor (g/mile)*	N ₂ O Emissions (g/mile)**
Light Auto	60.7%	0.04	0.02428	0.04	0.02428
Light Truck < 3750 lbs	3.7%	0.05	0.00183875	0.06	0.0022065
Light Truck 3751-5750 lbs	18.4%	0.05	0.0092	0.06	0.01104
Med Truck 5751-8500 lbs	10.7%	0.12	0.01284	0.2	0.0214
Lite-Heavy Truck 8501-10,000 lbs	1.5%	0.12	0.0018	0.2	0.003
Lite-Heavy Truck 10,001-14,000 lbs	0.5%	0.09	0.00045063	0.125	0.000625875
Med-Heavy Truck 14,001-33,000 lbs	1.2%	0.06	0.00072	0.05	0.0006
Heavy-Heavy Truck 33,001-60,000 lbs	2.0%	0.06	0.0012	0.05	0.001
Other Bus	0.2%	0.06	0.00012	0.05	0.0001
Urban Bus	0.1%	0.06	0.00006	0.05	0.00005
Motorcycle	0.1%	0.09	0.000045	0.01	0.000005
School Bus	0.1%	0.06	0.00003762	0.05	0.00003135
Motor Home	0.1%	0.09	0.0000666	0.125	0.0000925
Total	99.2%		0.0526586		0.064431225

Total Emissions (metric tons) =

Emission Factor by Vehicle Mix (g/mi) x Annual VMT(mi) x 0.000001 metric tons/g

Conversion to Carbon Dioxide Equivalency (CO₂e) Units based on Global Warming Potential (GWP)

CH₄ 21 GWP
 N₂O 310 GWP
 1 ton (short, US) = 0.90718474 metric ton

Annual Mobile Emissions:

	Total Emissions	Total CO ₂ e units
N ₂ O Emissions:	0.0456 metric tons N ₂ O	14.12 metric tons CO ₂ e
Project Total:		14.12 metric tons CO₂e

References

- * from Table C.4: Methane and Nitrous Oxide Emission Factors for Mobile Sources by Vehicle and Fuel Type (g/mile). in California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009. Assume Model year 2000-present, gasoline fueled.
- ** Source: California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009.
- *** CalEEMod v.2016.3.1 results for mobile sources.