

Appendix ALT

Alternatives Analysis

Forbes Blvd Office and R&D - San Mateo County, Annual

Forbes Blvd Office and R&D
San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Research & Development	128.74	1000sqft	2.96	128,740.00	0
Unenclosed Parking with Elevator	84.28	1000sqft	1.93	84,280.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	70
Climate Zone	5			Operational Year	2030
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	298.65	CH4 Intensity (lb/MWhr)	0.014	N2O Intensity (lb/MWhr)	0.003

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - reduced based on the percentage of renewables reported by PG&E and increase procurement from eligible renewable energy sources

Land Use -

Construction Phase - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Demolition -

Grading - Project site size

Vehicle Trips - Per project traffic analysis

Energy Use -

Construction Off-road Equipment Mitigation -

Energy Mitigation - Per current requirements

Water Mitigation - per 2016 standards

Waste Mitigation -

Architectural Coating -

Water And Wastewater -

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Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	64370	64354
tblAreaCoating	Area_Nonresidential_Interior	193109	193062
tblConstructionPhase	NumDays	10.00	88.00
tblConstructionPhase	NumDays	220.00	282.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	6.00	20.00
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDays	3.00	21.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Demolition
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.014
tblProjectCharacteristics	CO2IntensityFactor	641.35	298.65
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	SU_TR	0.76	0.00
tblVehicleTrips	WD_TR	11.42	0.00
tblVehicleTrips	WD_TR	8.11	6.84

2.0 Emissions Summary

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2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0921	0.9940	0.7251	1.4100e-003	0.1061	0.0461	0.1522	0.0269	0.0428	0.0697	0.0000	126.8910	126.8910	0.0329	0.0000	127.7146
2021	0.5455	4.2482	3.8038	7.8100e-003	0.1393	0.1925	0.3319	0.0463	0.1867	0.2329	0.0000	670.7490	670.7490	0.0970	0.0000	673.1734
2022	0.8101	0.9625	1.0390	1.9800e-003	0.0253	0.0447	0.0700	6.8500e-003	0.0429	0.0497	0.0000	170.6921	170.6921	0.0291	0.0000	171.4191
Maximum	0.8101	4.2482	3.8038	7.8100e-003	0.1393	0.1925	0.3319	0.0463	0.1867	0.2329	0.0000	670.7490	670.7490	0.0970	0.0000	673.1734

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0921	0.9940	0.7251	1.4100e-003	0.1061	0.0461	0.1522	0.0269	0.0428	0.0697	0.0000	126.8908	126.8908	0.0329	0.0000	127.7145
2021	0.5455	4.2482	3.8038	7.8100e-003	0.1393	0.1925	0.3319	0.0463	0.1867	0.2329	0.0000	670.7484	670.7484	0.0970	0.0000	673.1728
2022	0.8101	0.9625	1.0390	1.9800e-003	0.0253	0.0447	0.0700	6.8500e-003	0.0429	0.0497	0.0000	170.6919	170.6919	0.0291	0.0000	171.4189
Maximum	0.8101	4.2482	3.8038	7.8100e-003	0.1393	0.1925	0.3319	0.0463	0.1867	0.2329	0.0000	670.7484	670.7484	0.0970	0.0000	673.1728

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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	9-1-2020	11-30-2020	0.7851	0.7851
2	12-1-2020	2-28-2021	0.8356	0.8356
3	3-1-2021	5-31-2021	1.2702	1.2702
4	6-1-2021	8-31-2021	1.2690	1.2690
5	9-1-2021	11-30-2021	1.2575	1.2575
6	12-1-2021	2-28-2022	1.1775	1.1775
7	3-1-2022	5-31-2022	0.4289	0.4289
8	6-1-2022	8-31-2022	0.5981	0.5981
9	9-1-2022	9-30-2022	0.0065	0.0065
		Highest	1.2702	1.2702

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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	0.5773	2.0000e-005	1.9500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8100e-003	3.8100e-003	1.0000e-005	0.0000	4.0500e-003
Energy	0.0172	0.1562	0.1312	9.4000e-004		0.0119	0.0119		0.0119	0.0119	0.0000	324.0279	324.0279	0.0105	4.6600e-003	325.6798
Mobile	0.1244	0.3492	1.3881	5.5500e-003	0.6362	3.5700e-003	0.6397	0.1710	3.3200e-003	0.1743	0.0000	511.0056	511.0056	0.0181	0.0000	511.4587
Waste						0.0000	0.0000		0.0000	0.0000	13.1437	0.0000	13.1437	0.7768	0.0000	32.5629
Water						0.0000	0.0000		0.0000	0.0000	13.6708	34.9105	48.5813	1.4058	0.0335	93.7098
Total	0.7188	0.5054	1.5212	6.4900e-003	0.6362	0.0155	0.6516	0.1710	0.0152	0.1862	26.8145	869.9478	896.7623	2.2111	0.0382	963.4152

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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	0.5773	2.0000e-005	1.9500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8100e-003	3.8100e-003	1.0000e-005	0.0000	4.0500e-003
Energy	0.0135	0.1224	0.1028	7.3000e-004		9.3000e-003	9.3000e-003		9.3000e-003	9.3000e-003	0.0000	280.9081	280.9081	9.4800e-003	3.9300e-003	282.3150
Mobile	0.1244	0.3492	1.3881	5.5500e-003	0.6362	3.5700e-003	0.6397	0.1710	3.3200e-003	0.1743	0.0000	511.0056	511.0056	0.0181	0.0000	511.4587
Waste						0.0000	0.0000		0.0000	0.0000	13.1437	0.0000	13.1437	0.7768	0.0000	32.5629
Water						0.0000	0.0000		0.0000	0.0000	10.9366	28.5933	39.5300	1.1246	0.0268	75.6355
Total	0.7151	0.4716	1.4928	6.2800e-003	0.6362	0.0129	0.6490	0.1710	0.0126	0.1836	24.0803	820.5109	844.5912	1.9290	0.0307	901.9761

	ROG	NOx	CO	SO2	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	0.52	6.69	1.87	3.24	0.00	16.63	0.39	0.00	16.91	1.38	10.20	5.68	5.82	12.76	19.47	6.38

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	9/1/2020	11/2/2020	5	45	
2	Site Preparation	Site Preparation	11/20/2020	12/18/2020	5	21	
3	Grading	Grading	12/19/2020	1/15/2021	5	20	
4	Building Construction	Building Construction	2/1/2021	3/1/2022	5	282	
5	Paving	Paving	3/2/2022	5/2/2022	5	44	
6	Architectural Coating	Architectural Coating	5/3/2022	9/1/2022	5	88	

Acres of Grading (Site Preparation Phase): 31.5

Acres of Grading (Grading Phase): 10

Acres of Paving: 1.93

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 193,109; Non-Residential Outdoor: 64,370; Striped Parking Area: 5,057 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	2	6.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Excavators	1	6.00	158	0.38
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Grading	Excavators	3	6.00	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	2	7.00	97	0.37
Building Construction	Air Compressors	4	6.00	78	0.48
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	1	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	6	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Architectural Coating	Forklifts	1	6.00	89	0.20

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	7	18.00	0.00	447.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	15	77.00	35.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0483	0.0000	0.0483	7.3200e-003	0.0000	7.3200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0561	0.5527	0.4401	7.2000e-004		0.0299	0.0299		0.0278	0.0278	0.0000	62.7146	62.7146	0.0171	0.0000	63.1430
Total	0.0561	0.5527	0.4401	7.2000e-004	0.0483	0.0299	0.0782	7.3200e-003	0.0278	0.0352	0.0000	62.7146	62.7146	0.0171	0.0000	63.1430

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3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9800e-003	0.0721	0.0301	1.8000e-004	3.7400e-003	2.2000e-004	3.9600e-003	1.0300e-003	2.1000e-004	1.2400e-003	0.0000	18.6693	18.6693	2.3300e-003	0.0000	18.7275
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	1.1000e-003	7.5000e-004	7.8800e-003	3.0000e-005	3.1900e-003	2.0000e-005	3.2100e-003	8.5000e-004	2.0000e-005	8.7000e-004	0.0000	2.6549	2.6549	5.0000e-005	0.0000	2.6562
Total	3.0800e-003	0.0729	0.0380	2.1000e-004	6.9300e-003	2.4000e-004	7.1700e-003	1.8800e-003	2.3000e-004	2.1100e-003	0.0000	21.3242	21.3242	2.3800e-003	0.0000	21.3837

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					0.0483	0.0000	0.0483	7.3200e-003	0.0000	7.3200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0561	0.5527	0.4401	7.2000e-004		0.0299	0.0299		0.0278	0.0278	0.0000	62.7145	62.7145	0.0171	0.0000	63.1430
Total	0.0561	0.5527	0.4401	7.2000e-004	0.0483	0.0299	0.0782	7.3200e-003	0.0278	0.0352	0.0000	62.7145	62.7145	0.0171	0.0000	63.1430

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3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9800e-003	0.0721	0.0301	1.8000e-004	3.7400e-003	2.2000e-004	3.9600e-003	1.0300e-003	2.1000e-004	1.2400e-003	0.0000	18.6693	18.6693	2.3300e-003	0.0000	18.7275
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	1.1000e-003	7.5000e-004	7.8800e-003	3.0000e-005	3.1900e-003	2.0000e-005	3.2100e-003	8.5000e-004	2.0000e-005	8.7000e-004	0.0000	2.6549	2.6549	5.0000e-005	0.0000	2.6562
Total	3.0800e-003	0.0729	0.0380	2.1000e-004	6.9300e-003	2.4000e-004	7.1700e-003	1.8800e-003	2.3000e-004	2.1100e-003	0.0000	21.3242	21.3242	2.3800e-003	0.0000	21.3837

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0167	0.0000	0.0167	1.8000e-003	0.0000	1.8000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0212	0.2475	0.1650	3.3000e-004		0.0103	0.0103		9.4800e-003	9.4800e-003	0.0000	28.6827	28.6827	9.2800e-003	0.0000	28.9146
Total	0.0212	0.2475	0.1650	3.3000e-004	0.0167	0.0103	0.0270	1.8000e-003	9.4800e-003	0.0113	0.0000	28.6827	28.6827	9.2800e-003	0.0000	28.9146

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3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7000e-004	2.5000e-004	2.6600e-003	1.0000e-005	1.0700e-003	1.0000e-005	1.0800e-003	2.9000e-004	1.0000e-005	2.9000e-004	0.0000	0.8948	0.8948	2.0000e-005	0.0000	0.8952
Total	3.7000e-004	2.5000e-004	2.6600e-003	1.0000e-005	1.0700e-003	1.0000e-005	1.0800e-003	2.9000e-004	1.0000e-005	2.9000e-004	0.0000	0.8948	0.8948	2.0000e-005	0.0000	0.8952

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					0.0167	0.0000	0.0167	1.8000e-003	0.0000	1.8000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0212	0.2475	0.1650	3.3000e-004		0.0103	0.0103		9.4800e-003	9.4800e-003	0.0000	28.6827	28.6827	9.2800e-003	0.0000	28.9146
Total	0.0212	0.2475	0.1650	3.3000e-004	0.0167	0.0103	0.0270	1.8000e-003	9.4800e-003	0.0113	0.0000	28.6827	28.6827	9.2800e-003	0.0000	28.9146

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3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7000e-004	2.5000e-004	2.6600e-003	1.0000e-005	1.0700e-003	1.0000e-005	1.0800e-003	2.9000e-004	1.0000e-005	2.9000e-004	0.0000	0.8948	0.8948	2.0000e-005	0.0000	0.8952
Total	3.7000e-004	2.5000e-004	2.6600e-003	1.0000e-005	1.0700e-003	1.0000e-005	1.0800e-003	2.9000e-004	1.0000e-005	2.9000e-004	0.0000	0.8948	0.8948	2.0000e-005	0.0000	0.8952

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					0.0324	0.0000	0.0324	0.0155	0.0000	0.0155	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.1205	0.0778	1.4000e-004		5.6400e-003	5.6400e-003		5.1900e-003	5.1900e-003	0.0000	12.7437	12.7437	4.1200e-003	0.0000	12.8467
Total	0.0111	0.1205	0.0778	1.4000e-004	0.0324	5.6400e-003	0.0380	0.0155	5.1900e-003	0.0207	0.0000	12.7437	12.7437	4.1200e-003	0.0000	12.8467

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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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.5000e-004	1.5800e-003	1.0000e-005	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5310	0.5310	1.0000e-005	0.0000	0.5312
Total	2.2000e-004	1.5000e-004	1.5800e-003	1.0000e-005	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5310	0.5310	1.0000e-005	0.0000	0.5312

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					0.0324	0.0000	0.0324	0.0155	0.0000	0.0155	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.1205	0.0778	1.4000e-004		5.6400e-003	5.6400e-003		5.1900e-003	5.1900e-003	0.0000	12.7437	12.7437	4.1200e-003	0.0000	12.8467
Total	0.0111	0.1205	0.0778	1.4000e-004	0.0324	5.6400e-003	0.0380	0.0155	5.1900e-003	0.0207	0.0000	12.7437	12.7437	4.1200e-003	0.0000	12.8467

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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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.5000e-004	1.5800e-003	1.0000e-005	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5310	0.5310	1.0000e-005	0.0000	0.5312
Total	2.2000e-004	1.5000e-004	1.5800e-003	1.0000e-005	6.4000e-004	0.0000	6.4000e-004	1.7000e-004	0.0000	1.7000e-004	0.0000	0.5310	0.5310	1.0000e-005	0.0000	0.5312

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0384	0.0000	0.0384	0.0188	0.0000	0.0188	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0129	0.1378	0.0942	1.8000e-004		6.3300e-003	6.3300e-003		5.8200e-003	5.8200e-003	0.0000	15.5725	15.5725	5.0400e-003	0.0000	15.6984
Total	0.0129	0.1378	0.0942	1.8000e-004	0.0384	6.3300e-003	0.0448	0.0188	5.8200e-003	0.0246	0.0000	15.5725	15.5725	5.0400e-003	0.0000	15.6984

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3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-004	1.6000e-004	1.7800e-003	1.0000e-005	7.8000e-004	0.0000	7.8000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6259	0.6259	1.0000e-005	0.0000	0.6262
Total	2.5000e-004	1.6000e-004	1.7800e-003	1.0000e-005	7.8000e-004	0.0000	7.8000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6259	0.6259	1.0000e-005	0.0000	0.6262

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					0.0384	0.0000	0.0384	0.0188	0.0000	0.0188	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0129	0.1378	0.0942	1.8000e-004		6.3300e-003	6.3300e-003		5.8200e-003	5.8200e-003	0.0000	15.5725	15.5725	5.0400e-003	0.0000	15.6984
Total	0.0129	0.1378	0.0942	1.8000e-004	0.0384	6.3300e-003	0.0448	0.0188	5.8200e-003	0.0246	0.0000	15.5725	15.5725	5.0400e-003	0.0000	15.6984

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3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.5000e-004	1.6000e-004	1.7800e-003	1.0000e-005	7.8000e-004	0.0000	7.8000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6259	0.6259	1.0000e-005	0.0000	0.6262
Total	2.5000e-004	1.6000e-004	1.7800e-003	1.0000e-005	7.8000e-004	0.0000	7.8000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6259	0.6259	1.0000e-005	0.0000	0.6262

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	0.4954	3.6575	3.3541	5.8800e-003		0.1848	0.1848		0.1795	0.1795	0.0000	486.2190	486.2190	0.0814	0.0000	488.2532
Total	0.4954	3.6575	3.3541	5.8800e-003		0.1848	0.1848		0.1795	0.1795	0.0000	486.2190	486.2190	0.0814	0.0000	488.2532

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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	0.0134	0.4374	0.1877	1.1000e-003	0.0274	1.0000e-003	0.0284	7.9200e-003	9.6000e-004	8.8800e-003	0.0000	109.9154	109.9154	9.5000e-003	0.0000	110.1528
Worker	0.0236	0.0153	0.1660	6.5000e-004	0.0727	4.4000e-004	0.0732	0.0194	4.1000e-004	0.0198	0.0000	58.4163	58.4163	1.0600e-003	0.0000	58.4428
Total	0.0370	0.4527	0.3538	1.7500e-003	0.1001	1.4400e-003	0.1016	0.0273	1.3700e-003	0.0286	0.0000	168.3316	168.3316	0.0106	0.0000	168.5956

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	0.4954	3.6575	3.3541	5.8800e-003		0.1848	0.1848		0.1795	0.1795	0.0000	486.2184	486.2184	0.0814	0.0000	488.2527
Total	0.4954	3.6575	3.3541	5.8800e-003		0.1848	0.1848		0.1795	0.1795	0.0000	486.2184	486.2184	0.0814	0.0000	488.2527

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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	0.0134	0.4374	0.1877	1.1000e-003	0.0274	1.0000e-003	0.0284	7.9200e-003	9.6000e-004	8.8800e-003	0.0000	109.9154	109.9154	9.5000e-003	0.0000	110.1528
Worker	0.0236	0.0153	0.1660	6.5000e-004	0.0727	4.4000e-004	0.0732	0.0194	4.1000e-004	0.0198	0.0000	58.4163	58.4163	1.0600e-003	0.0000	58.4428
Total	0.0370	0.4527	0.3538	1.7500e-003	0.1001	1.4400e-003	0.1016	0.0273	1.3700e-003	0.0286	0.0000	168.3316	168.3316	0.0106	0.0000	168.5956

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0793	0.5857	0.5791	1.0300e-003		0.0280	0.0280		0.0272	0.0272	0.0000	85.0967	85.0967	0.0139	0.0000	85.4435
Total	0.0793	0.5857	0.5791	1.0300e-003		0.0280	0.0280		0.0272	0.0272	0.0000	85.0967	85.0967	0.0139	0.0000	85.4435

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3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2100e-003	0.0720	0.0328	1.9000e-004	4.7900e-003	1.5000e-004	4.9500e-003	1.3900e-003	1.5000e-004	1.5300e-003	0.0000	18.9878	18.9878	1.6500e-003	0.0000	19.0291
Worker	3.8900e-003	2.4200e-003	0.0270	1.1000e-004	0.0127	8.0000e-005	0.0128	3.3900e-003	7.0000e-005	3.4600e-003	0.0000	9.8489	9.8489	1.7000e-004	0.0000	9.8531
Total	6.1000e-003	0.0744	0.0598	3.0000e-004	0.0175	2.3000e-004	0.0178	4.7800e-003	2.2000e-004	4.9900e-003	0.0000	28.8368	28.8368	1.8200e-003	0.0000	28.8822

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	0.0793	0.5856	0.5791	1.0300e-003		0.0280	0.0280		0.0272	0.0272	0.0000	85.0966	85.0966	0.0139	0.0000	85.4434
Total	0.0793	0.5856	0.5791	1.0300e-003		0.0280	0.0280		0.0272	0.0272	0.0000	85.0966	85.0966	0.0139	0.0000	85.4434

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3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.2100e-003	0.0720	0.0328	1.9000e-004	4.7900e-003	1.5000e-004	4.9500e-003	1.3900e-003	1.5000e-004	1.5300e-003	0.0000	18.9878	18.9878	1.6500e-003	0.0000	19.0291
Worker	3.8900e-003	2.4200e-003	0.0270	1.1000e-004	0.0127	8.0000e-005	0.0128	3.3900e-003	7.0000e-005	3.4600e-003	0.0000	9.8489	9.8489	1.7000e-004	0.0000	9.8531
Total	6.1000e-003	0.0744	0.0598	3.0000e-004	0.0175	2.3000e-004	0.0178	4.7800e-003	2.2000e-004	4.9900e-003	0.0000	28.8368	28.8368	1.8200e-003	0.0000	28.8822

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0207	0.2042	0.2656	4.0000e-004		0.0105	0.0105		9.7100e-003	9.7100e-003	0.0000	35.0628	35.0628	0.0111	0.0000	35.3408
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0207	0.2042	0.2656	4.0000e-004		0.0105	0.0105		9.7100e-003	9.7100e-003	0.0000	35.0628	35.0628	0.0111	0.0000	35.3408

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3.6 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.9000e-004	4.9000e-004	5.5200e-003	2.0000e-005	2.6000e-003	2.0000e-005	2.6100e-003	6.9000e-004	1.0000e-005	7.1000e-004	0.0000	2.0100	2.0100	3.0000e-005	0.0000	2.0108
Total	7.9000e-004	4.9000e-004	5.5200e-003	2.0000e-005	2.6000e-003	2.0000e-005	2.6100e-003	6.9000e-004	1.0000e-005	7.1000e-004	0.0000	2.0100	2.0100	3.0000e-005	0.0000	2.0108

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	0.0207	0.2042	0.2656	4.0000e-004		0.0105	0.0105		9.7100e-003	9.7100e-003	0.0000	35.0628	35.0628	0.0111	0.0000	35.3407
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0207	0.2042	0.2656	4.0000e-004		0.0105	0.0105		9.7100e-003	9.7100e-003	0.0000	35.0628	35.0628	0.0111	0.0000	35.3407

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3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.9000e-004	4.9000e-004	5.5200e-003	2.0000e-005	2.6000e-003	2.0000e-005	2.6100e-003	6.9000e-004	1.0000e-005	7.1000e-004	0.0000	2.0100	2.0100	3.0000e-005	0.0000	2.0108
Total	7.9000e-004	4.9000e-004	5.5200e-003	2.0000e-005	2.6000e-003	2.0000e-005	2.6100e-003	6.9000e-004	1.0000e-005	7.1000e-004	0.0000	2.0100	2.0100	3.0000e-005	0.0000	2.0108

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6889					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0128	0.0968	0.1179	1.8000e-004		5.9000e-003	5.9000e-003		5.7200e-003	5.7200e-003	0.0000	15.6659	15.6659	2.1600e-003	0.0000	15.7201
Total	0.7016	0.0968	0.1179	1.8000e-004		5.9000e-003	5.9000e-003		5.7200e-003	5.7200e-003	0.0000	15.6659	15.6659	2.1600e-003	0.0000	15.7201

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3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5900e-003	9.9000e-004	0.0110	4.0000e-005	5.2000e-003	3.0000e-005	5.2300e-003	1.3800e-003	3.0000e-005	1.4100e-003	0.0000	4.0200	4.0200	7.0000e-005	0.0000	4.0217
Total	1.5900e-003	9.9000e-004	0.0110	4.0000e-005	5.2000e-003	3.0000e-005	5.2300e-003	1.3800e-003	3.0000e-005	1.4100e-003	0.0000	4.0200	4.0200	7.0000e-005	0.0000	4.0217

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	0.6889					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0128	0.0968	0.1179	1.8000e-004		5.9000e-003	5.9000e-003		5.7200e-003	5.7200e-003	0.0000	15.6659	15.6659	2.1600e-003	0.0000	15.7200
Total	0.7016	0.0968	0.1179	1.8000e-004		5.9000e-003	5.9000e-003		5.7200e-003	5.7200e-003	0.0000	15.6659	15.6659	2.1600e-003	0.0000	15.7200

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3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5900e-003	9.9000e-004	0.0110	4.0000e-005	5.2000e-003	3.0000e-005	5.2300e-003	1.3800e-003	3.0000e-005	1.4100e-003	0.0000	4.0200	4.0200	7.0000e-005	0.0000	4.0217
Total	1.5900e-003	9.9000e-004	0.0110	4.0000e-005	5.2000e-003	3.0000e-005	5.2300e-003	1.3800e-003	3.0000e-005	1.4100e-003	0.0000	4.0200	4.0200	7.0000e-005	0.0000	4.0217

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	0.1244	0.3492	1.3881	5.5500e-003	0.6362	3.5700e-003	0.6397	0.1710	3.3200e-003	0.1743	0.0000	511.0056	511.0056	0.0181	0.0000	511.4587
Unmitigated	0.1244	0.3492	1.3881	5.5500e-003	0.6362	3.5700e-003	0.6397	0.1710	3.3200e-003	0.1743	0.0000	511.0056	511.0056	0.0181	0.0000	511.4587

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Office Park	0.00	0.00	0.00		
Research & Development	880.58	244.61	142.90	1,715,138	1,715,138
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	880.58	244.61	142.90	1,715,138	1,715,138

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
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Unenclosed Parking with	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
Office Park	0.448867	0.051210	0.277116	0.145918	0.016779	0.007633	0.027321	0.006813	0.004476	0.002855	0.009510	0.000605	0.000896
Research & Development	0.448867	0.051210	0.277116	0.145918	0.016779	0.007633	0.027321	0.006813	0.004476	0.002855	0.009510	0.000605	0.000896
Unenclosed Parking with Elevator	0.448867	0.051210	0.277116	0.145918	0.016779	0.007633	0.027321	0.006813	0.004476	0.002855	0.009510	0.000605	0.000896

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive 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	147.6633	147.6633	6.9200e-003	1.4800e-003	148.2784
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	153.9940	153.9940	7.2200e-003	1.5500e-003	154.6354
NaturalGas Mitigated	0.0135	0.1224	0.1028	7.3000e-004		9.3000e-003	9.3000e-003		9.3000e-003	9.3000e-003	0.0000	133.2448	133.2448	2.5500e-003	2.4400e-003	134.0366
NaturalGas Unmitigated	0.0172	0.1562	0.1312	9.4000e-004		0.0119	0.0119		0.0119	0.0119	0.0000	170.0339	170.0339	3.2600e-003	3.1200e-003	171.0443

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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					
Research & Development	3.18632e+006	0.0172	0.1562	0.1312	9.4000e-004		0.0119	0.0119		0.0119	0.0119	0.0000	170.0339	170.0339	3.2600e-003	3.1200e-003	171.0443
Unenclosed 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
Total		0.0172	0.1562	0.1312	9.4000e-004		0.0119	0.0119		0.0119	0.0119	0.0000	170.0339	170.0339	3.2600e-003	3.1200e-003	171.0443

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					
Research & Development	2.49691e+006	0.0135	0.1224	0.1028	7.3000e-004		9.3000e-003	9.3000e-003		9.3000e-003	9.3000e-003	0.0000	133.2448	133.2448	2.5500e-003	2.4400e-003	134.0366
Unenclosed 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
Total		0.0135	0.1224	0.1028	7.3000e-004		9.3000e-003	9.3000e-003		9.3000e-003	9.3000e-003	0.0000	133.2448	133.2448	2.5500e-003	2.4400e-003	134.0366

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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			
Research & Development	973274	131.8450	6.1800e-003	1.3200e-003	132.3942
Unenclosed Parking with Elevator	163503	22.1490	1.0400e-003	2.2000e-004	22.2413
Total		153.9940	7.2200e-003	1.5400e-003	154.6354

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Research & Development	926542	125.5143	5.8800e-003	1.2600e-003	126.0371
Unenclosed Parking with Elevator	163503	22.1490	1.0400e-003	2.2000e-004	22.2413
Total		147.6633	6.9200e-003	1.4800e-003	148.2784

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	0.5773	2.0000e-005	1.9500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8100e-003	3.8100e-003	1.0000e-005	0.0000	4.0500e-003
Unmitigated	0.5773	2.0000e-005	1.9500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8100e-003	3.8100e-003	1.0000e-005	0.0000	4.0500e-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	0.0689					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5082					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	1.9500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8100e-003	3.8100e-003	1.0000e-005	0.0000	4.0500e-003
Total	0.5773	2.0000e-005	1.9500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8100e-003	3.8100e-003	1.0000e-005	0.0000	4.0500e-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	0.0689					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5082					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.8000e-004	2.0000e-005	1.9500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8100e-003	3.8100e-003	1.0000e-005	0.0000	4.0500e-003
Total	0.5773	2.0000e-005	1.9500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.8100e-003	3.8100e-003	1.0000e-005	0.0000	4.0500e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Forbes Blvd Office and R&D - San Mateo County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	39.5300	1.1246	0.0268	75.6355
Unmitigated	48.5813	1.4058	0.0335	93.7098

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Office Park	11.4407 / 7.01206	15.3403	0.3734	8.9200e-003	27.3322
Research & Development	31.6503 / 0	33.2410	1.0324	0.0246	66.3777
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		48.5813	1.4058	0.0335	93.7098

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Office Park	9.15258 / 7.01206	12.9372	0.2987	7.1400e-003	22.5334
Research & Development	25.3203 / 0	26.5928	0.8259	0.0197	53.1021
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		39.5300	1.1246	0.0268	75.6355

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	13.1437	0.7768	0.0000	32.5629
Unmitigated	13.1437	0.7768	0.0000	32.5629

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Office Park	59.86	12.1510	0.7181	0.0000	30.1037
Research & Development	4.89	0.9926	0.0587	0.0000	2.4592
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		13.1437	0.7768	0.0000	32.5629

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Office Park	59.86	12.1510	0.7181	0.0000	30.1037
Research & Development	4.89	0.9926	0.0587	0.0000	2.4592
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		13.1437	0.7768	0.0000	32.5629

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Forbes Blvd Office and R&D - San Mateo County, Summer

Forbes Blvd Office and R&D
San Mateo County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Research & Development	128.74	1000sqft	2.96	128,740.00	0
Unenclosed Parking with Elevator	84.28	1000sqft	1.93	84,280.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	70
Climate Zone	5			Operational Year	2030
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	298.65	CH4 Intensity (lb/MWhr)	0.014	N2O Intensity (lb/MWhr)	0.003

1.3 User Entered Comments & Non-Default Data

Forbes Blvd Office and R&D - San Mateo County, Summer

Project Characteristics - reduced based on the percentage of renewables reported by PG&E and increase procurement from eligible renewable energy sources

Land Use -

Construction Phase - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Demolition -

Grading - Project site size

Vehicle Trips - Per project traffic analysis

Energy Use -

Construction Off-road Equipment Mitigation -

Energy Mitigation - Per current requirements

Water Mitigation - per 2016 standards

Waste Mitigation -

Architectural Coating -

Water And Wastewater -

Forbes Blvd Office and R&D - San Mateo County, Summer

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	64370	64354
tblAreaCoating	Area_Nonresidential_Interior	193109	193062
tblConstructionPhase	NumDays	10.00	88.00
tblConstructionPhase	NumDays	220.00	282.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	6.00	20.00
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDays	3.00	21.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Demolition
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.014
tblProjectCharacteristics	CO2IntensityFactor	641.35	298.65
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	SU_TR	0.76	0.00
tblVehicleTrips	WD_TR	11.42	0.00
tblVehicleTrips	WD_TR	8.11	6.84

2.0 Emissions Summary

Forbes Blvd Office and R&D - San Mateo 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					
2020	2.6304	27.7229	21.2586	0.0413	6.7002	1.3385	7.9542	3.4067	1.2477	4.5604	0.0000	4,129.3095	4,129.3095	1.0123	0.0000	4,153.2101
2021	4.4350	34.1863	30.9277	0.0639	6.7002	1.5515	7.8518	3.4067	1.5068	4.4662	0.0000	6,053.0990	6,053.0990	1.0118	0.0000	6,074.2023
2022	15.9822	31.3717	30.4564	0.0636	0.8688	1.3441	2.2129	0.2358	1.3054	1.5412	0.0000	6,019.5541	6,019.5541	0.8235	0.0000	6,040.1412
Maximum	15.9822	34.1863	30.9277	0.0639	6.7002	1.5515	7.9542	3.4067	1.5068	4.5604	0.0000	6,053.0990	6,053.0990	1.0123	0.0000	6,074.2023

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.6304	27.7229	21.2586	0.0413	6.7002	1.3385	7.9542	3.4067	1.2477	4.5604	0.0000	4,129.3095	4,129.3095	1.0123	0.0000	4,153.2101
2021	4.4350	34.1863	30.9277	0.0639	6.7002	1.5515	7.8518	3.4067	1.5068	4.4662	0.0000	6,053.0990	6,053.0990	1.0118	0.0000	6,074.2023
2022	15.9822	31.3717	30.4564	0.0636	0.8688	1.3441	2.2129	0.2358	1.3054	1.5412	0.0000	6,019.5541	6,019.5541	0.8235	0.0000	6,040.1412
Maximum	15.9822	34.1863	30.9277	0.0639	6.7002	1.5515	7.9542	3.4067	1.5068	4.5604	0.0000	6,053.0990	6,053.0990	1.0123	0.0000	6,074.2023

Forbes Blvd Office and R&D - San Mateo County, 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	3.1642	1.9000e-004	0.0216	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0466	0.0466	1.2000e-004		0.0496
Energy	0.0941	0.8559	0.7189	5.1400e-003		0.0650	0.0650		0.0650	0.0650		1,027.0153	1,027.0153	0.0197	0.0188	1,033.1184
Mobile	0.9690	2.3648	9.9809	0.0411	4.6898	0.0252	4.7151	1.2561	0.0235	1.2795		4,167.3585	4,167.3585	0.1407		4,170.8753
Total	4.2274	3.2209	10.7215	0.0463	4.6898	0.0904	4.7802	1.2561	0.0886	1.3447		5,194.4204	5,194.4204	0.1605	0.0188	5,204.0432

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	3.1642	1.9000e-004	0.0216	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0466	0.0466	1.2000e-004		0.0496
Energy	0.0738	0.6707	0.5634	4.0200e-003		0.0510	0.0510		0.0510	0.0510		804.8065	804.8065	0.0154	0.0148	809.5891
Mobile	0.9690	2.3648	9.9809	0.0411	4.6898	0.0252	4.7151	1.2561	0.0235	1.2795		4,167.3585	4,167.3585	0.1407		4,170.8753
Total	4.2070	3.0357	10.5659	0.0451	4.6898	0.0763	4.7661	1.2561	0.0745	1.3306		4,972.2117	4,972.2117	0.1562	0.0148	4,980.5140

Forbes Blvd Office and R&D - San Mateo 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	0.48	5.75	1.45	2.42	0.00	15.57	0.29	0.00	15.88	1.05	0.00	4.28	4.28	2.65	21.67	4.30

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2020	11/2/2020	5	45	
2	Site Preparation	Site Preparation	11/20/2020	12/18/2020	5	21	
3	Grading	Grading	12/19/2020	1/15/2021	5	20	
4	Building Construction	Building Construction	2/1/2021	3/1/2022	5	282	
5	Paving	Paving	3/2/2022	5/2/2022	5	44	
6	Architectural Coating	Architectural Coating	5/3/2022	9/1/2022	5	88	

Acres of Grading (Site Preparation Phase): 31.5

Acres of Grading (Grading Phase): 10

Acres of Paving: 1.93

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 193,109; Non-Residential Outdoor: 64,370; Striped Parking Area: 5,057 (Architectural Coating – sqft)

OffRoad Equipment

Forbes Blvd Office and R&D - San Mateo County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	2	6.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Excavators	1	6.00	158	0.38
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Grading	Excavators	3	6.00	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	2	7.00	97	0.37
Building Construction	Air Compressors	4	6.00	78	0.48
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	1	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	6	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Architectural Coating	Forklifts	1	6.00	89	0.20

Trips and VMT

Forbes Blvd Office and R&D - San Mateo County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	7	18.00	0.00	447.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	15	77.00	35.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.1484	0.0000	2.1484	0.3253	0.0000	0.3253			0.0000			0.0000
Off-Road	2.4937	24.5653	19.5590	0.0319		1.3278	1.3278		1.2374	1.2374		3,072.4903	3,072.4903	0.8396		3,093.4795
Total	2.4937	24.5653	19.5590	0.0319	2.1484	1.3278	3.4762	0.3253	1.2374	1.5627		3,072.4903	3,072.4903	0.8396		3,093.4795

Forbes Blvd Office and R&D - San Mateo County, Summer

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0872	3.1283	1.3272	8.1100e-003	0.1725	9.8700e-003	0.1823	0.0472	9.4400e-003	0.0566		918.7378	918.7378	0.1138		921.5824
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	0.0495	0.0293	0.3725	1.3800e-003	0.1479	8.9000e-004	0.1488	0.0392	8.2000e-004	0.0400		138.0814	138.0814	2.6700e-003		138.1481
Total	0.1367	3.1576	1.6997	9.4900e-003	0.3203	0.0108	0.3311	0.0864	0.0103	0.0967		1,056.8192	1,056.8192	0.1165		1,059.7306

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.1484	0.0000	2.1484	0.3253	0.0000	0.3253			0.0000			0.0000
Off-Road	2.4937	24.5653	19.5590	0.0319		1.3278	1.3278		1.2374	1.2374	0.0000	3,072.4903	3,072.4903	0.8396		3,093.4795
Total	2.4937	24.5653	19.5590	0.0319	2.1484	1.3278	3.4762	0.3253	1.2374	1.5627	0.0000	3,072.4903	3,072.4903	0.8396		3,093.4795

Forbes Blvd Office and R&D - San Mateo County, Summer

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0872	3.1283	1.3272	8.1100e-003	0.1725	9.8700e-003	0.1823	0.0472	9.4400e-003	0.0566		918.7378	918.7378	0.1138		921.5824
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	0.0495	0.0293	0.3725	1.3800e-003	0.1479	8.9000e-004	0.1488	0.0392	8.2000e-004	0.0400		138.0814	138.0814	2.6700e-003		138.1481
Total	0.1367	3.1576	1.6997	9.4900e-003	0.3203	0.0108	0.3311	0.0864	0.0103	0.0967		1,056.8192	1,056.8192	0.1165		1,059.7306

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	2.0191	23.5711	15.7134	0.0311		0.9812	0.9812		0.9027	0.9027		3,011.1675	3,011.1675	0.9739		3,035.5143
Total	2.0191	23.5711	15.7134	0.0311	1.5908	0.9812	2.5720	0.1718	0.9027	1.0745		3,011.1675	3,011.1675	0.9739		3,035.5143

Forbes Blvd Office and R&D - San Mateo County, Summer

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0357	0.0212	0.2690	1.0000e-003	0.1068	6.4000e-004	0.1074	0.0283	5.9000e-004	0.0289		99.7255	99.7255	1.9300e-003		99.7737
Total	0.0357	0.0212	0.2690	1.0000e-003	0.1068	6.4000e-004	0.1074	0.0283	5.9000e-004	0.0289		99.7255	99.7255	1.9300e-003		99.7737

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	2.0191	23.5711	15.7134	0.0311		0.9812	0.9812		0.9027	0.9027	0.0000	3,011.1675	3,011.1675	0.9739		3,035.5143
Total	2.0191	23.5711	15.7134	0.0311	1.5908	0.9812	2.5720	0.1718	0.9027	1.0745	0.0000	3,011.1675	3,011.1675	0.9739		3,035.5143

Forbes Blvd Office and R&D - San Mateo County, Summer

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0357	0.0212	0.2690	1.0000e-003	0.1068	6.4000e-004	0.1074	0.0283	5.9000e-004	0.0289		99.7255	99.7255	1.9300e-003		99.7737
Total	0.0357	0.0212	0.2690	1.0000e-003	0.1068	6.4000e-004	0.1074	0.0283	5.9000e-004	0.0289		99.7255	99.7255	1.9300e-003		99.7737

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.4732	26.7702	17.2881	0.0322		1.2531	1.2531		1.1529	1.1529		3,121.6725	3,121.6725	1.0096		3,146.9128
Total	2.4732	26.7702	17.2881	0.0322	6.5523	1.2531	7.8055	3.3675	1.1529	4.5203		3,121.6725	3,121.6725	1.0096		3,146.9128

Forbes Blvd Office and R&D - San Mateo 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	0.0000	0.0000	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	0.0495	0.0293	0.3725	1.3800e-003	0.1479	8.9000e-004	0.1488	0.0392	8.2000e-004	0.0400		138.0814	138.0814	2.6700e-003		138.1481
Total	0.0495	0.0293	0.3725	1.3800e-003	0.1479	8.9000e-004	0.1488	0.0392	8.2000e-004	0.0400		138.0814	138.0814	2.6700e-003		138.1481

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.4732	26.7702	17.2881	0.0322		1.2531	1.2531		1.1529	1.1529	0.0000	3,121.6725	3,121.6725	1.0096		3,146.9128
Total	2.4732	26.7702	17.2881	0.0322	6.5523	1.2531	7.8055	3.3675	1.1529	4.5203	0.0000	3,121.6725	3,121.6725	1.0096		3,146.9128

Forbes Blvd Office and R&D - San Mateo 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	0.0000	0.0000	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	0.0495	0.0293	0.3725	1.3800e-003	0.1479	8.9000e-004	0.1488	0.0392	8.2000e-004	0.0400		138.0814	138.0814	2.6700e-003		138.1481
Total	0.0495	0.0293	0.3725	1.3800e-003	0.1479	8.9000e-004	0.1488	0.0392	8.2000e-004	0.0400		138.0814	138.0814	2.6700e-003		138.1481

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.3427	25.0587	17.1220	0.0322		1.1507	1.1507		1.0587	1.0587		3,121.0434	3,121.0434	1.0094		3,146.2786
Total	2.3427	25.0587	17.1220	0.0322	6.5523	1.1507	7.7031	3.3675	1.0587	4.4262		3,121.0434	3,121.0434	1.0094		3,146.2786

Forbes Blvd Office and R&D - San Mateo County, Summer

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0462	0.0263	0.3449	1.3300e-003	0.1479	8.6000e-004	0.1487	0.0392	7.9000e-004	0.0400		133.1587	133.1587	2.4000e-003		133.2187
Total	0.0462	0.0263	0.3449	1.3300e-003	0.1479	8.6000e-004	0.1487	0.0392	7.9000e-004	0.0400		133.1587	133.1587	2.4000e-003		133.2187

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.3427	25.0587	17.1220	0.0322		1.1507	1.1507		1.0587	1.0587	0.0000	3,121.0434	3,121.0434	1.0094		3,146.2786
Total	2.3427	25.0587	17.1220	0.0322	6.5523	1.1507	7.7031	3.3675	1.0587	4.4262	0.0000	3,121.0434	3,121.0434	1.0094		3,146.2786

Forbes Blvd Office and R&D - San Mateo County, Summer

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0462	0.0263	0.3449	1.3300e-003	0.1479	8.6000e-004	0.1487	0.0392	7.9000e-004	0.0400		133.1587	133.1587	2.4000e-003		133.2187
Total	0.0462	0.0263	0.3449	1.3300e-003	0.1479	8.6000e-004	0.1487	0.0392	7.9000e-004	0.0400		133.1587	133.1587	2.4000e-003		133.2187

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	4.1284	30.4792	27.9506	0.0490		1.5396	1.5396		1.4956	1.4956		4,466.3727	4,466.3727	0.7474		4,485,0588
Total	4.1284	30.4792	27.9506	0.0490		1.5396	1.5396		1.4956	1.4956		4,466.3727	4,466.3727	0.7474		4,485,0588

Forbes Blvd Office and R&D - San Mateo 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	0.1092	3.5945	1.5016	9.2300e-003	0.2362	8.1800e-003	0.2444	0.0680	7.8200e-003	0.0758		1,017.1030	1,017.1030	0.0864		1,019.2636
Worker	0.1974	0.1126	1.4755	5.7100e-003	0.6325	3.6900e-003	0.6362	0.1678	3.4000e-003	0.1712		569.6232	569.6232	0.0103		569.8800
Total	0.3066	3.7071	2.9771	0.0149	0.8688	0.0119	0.8807	0.2358	0.0112	0.2470		1,586.7263	1,586.7263	0.0967		1,589.1436

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	4.1284	30.4792	27.9506	0.0490		1.5396	1.5396		1.4956	1.4956	0.0000	4,466.3727	4,466.3727	0.7474		4,485.0588
Total	4.1284	30.4792	27.9506	0.0490		1.5396	1.5396		1.4956	1.4956	0.0000	4,466.3727	4,466.3727	0.7474		4,485.0588

Forbes Blvd Office and R&D - San Mateo 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	0.1092	3.5945	1.5016	9.2300e-003	0.2362	8.1800e-003	0.2444	0.0680	7.8200e-003	0.0758		1,017.1030	1,017.1030	0.0864		1,019.2636
Worker	0.1974	0.1126	1.4755	5.7100e-003	0.6325	3.6900e-003	0.6362	0.1678	3.4000e-003	0.1712		569.6232	569.6232	0.0103		569.8800
Total	0.3066	3.7071	2.9771	0.0149	0.8688	0.0119	0.8807	0.2358	0.0112	0.2470		1,586.7263	1,586.7263	0.0967		1,589.1436

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.7774	27.8879	27.5779	0.0490		1.3333	1.3333		1.2952	1.2952		4,466.8100	4,466.8100	0.7283		4,485.0172
Total	3.7774	27.8879	27.5779	0.0490		1.3333	1.3333		1.2952	1.2952		4,466.8100	4,466.8100	0.7283		4,485.0172

Forbes Blvd Office and R&D - San Mateo County, Summer

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1026	3.3821	1.5020	9.0900e-003	0.2363	7.2100e-003	0.2435	0.0680	6.8900e-003	0.0749		1,004.0034	1,004.0034	0.0859		1,006.1513
Worker	0.1860	0.1016	1.3765	5.5000e-003	0.6325	3.6200e-003	0.6362	0.1678	3.3300e-003	0.1711		548.7407	548.7407	9.2800e-003		548.9727
Total	0.2886	3.4838	2.8785	0.0146	0.8688	0.0108	0.8796	0.2358	0.0102	0.2460		1,552.7441	1,552.7441	0.0952		1,555.1240

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	3.7774	27.8879	27.5779	0.0490		1.3333	1.3333		1.2952	1.2952	0.0000	4,466.8100	4,466.8100	0.7283		4,485.0172
Total	3.7774	27.8879	27.5779	0.0490		1.3333	1.3333		1.2952	1.2952	0.0000	4,466.8100	4,466.8100	0.7283		4,485.0172

Forbes Blvd Office and R&D - San Mateo County, Summer

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1026	3.3821	1.5020	9.0900e-003	0.2363	7.2100e-003	0.2435	0.0680	6.8900e-003	0.0749		1,004.0034	1,004.0034	0.0859		1,006.1513
Worker	0.1860	0.1016	1.3765	5.5000e-003	0.6325	3.6200e-003	0.6362	0.1678	3.3300e-003	0.1711		548.7407	548.7407	9.2800e-003		548.9727
Total	0.2886	3.4838	2.8785	0.0146	0.8688	0.0108	0.8796	0.2358	0.0102	0.2460		1,552.7441	1,552.7441	0.0952		1,555.1240

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9396	9.2819	12.0746	0.0183		0.4785	0.4785		0.4414	0.4414		1,756.8244	1,756.8244	0.5571		1,770.7518
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9396	9.2819	12.0746	0.0183		0.4785	0.4785		0.4414	0.4414		1,756.8244	1,756.8244	0.5571		1,770.7518

Forbes Blvd Office and R&D - San Mateo County, Summer

3.6 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0362	0.0198	0.2682	1.0700e-003	0.1232	7.0000e-004	0.1239	0.0327	6.5000e-004	0.0333		106.8975	106.8975	1.8100e-003		106.9427
Total	0.0362	0.0198	0.2682	1.0700e-003	0.1232	7.0000e-004	0.1239	0.0327	6.5000e-004	0.0333		106.8975	106.8975	1.8100e-003		106.9427

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	0.9396	9.2819	12.0746	0.0183		0.4785	0.4785		0.4414	0.4414	0.0000	1,756.8244	1,756.8244	0.5571		1,770.7518
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9396	9.2819	12.0746	0.0183		0.4785	0.4785		0.4414	0.4414	0.0000	1,756.8244	1,756.8244	0.5571		1,770.7518

Forbes Blvd Office and R&D - San Mateo County, Summer

3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0362	0.0198	0.2682	1.0700e-003	0.1232	7.0000e-004	0.1239	0.0327	6.5000e-004	0.0333		106.8975	106.8975	1.8100e-003		106.9427
Total	0.0362	0.0198	0.2682	1.0700e-003	0.1232	7.0000e-004	0.1239	0.0327	6.5000e-004	0.0333		106.8975	106.8975	1.8100e-003		106.9427

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	15.6563					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2897	2.1997	2.6789	4.1200e-003		0.1341	0.1341		0.1299	0.1299		392.4712	392.4712	0.0542		393.8270
Total	15.9460	2.1997	2.6789	4.1200e-003		0.1341	0.1341		0.1299	0.1299		392.4712	392.4712	0.0542		393.8270

Forbes Blvd Office and R&D - San Mateo County, Summer

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0362	0.0198	0.2682	1.0700e-003	0.1232	7.0000e-004	0.1239	0.0327	6.5000e-004	0.0333		106.8975	106.8975	1.8100e-003		106.9427
Total	0.0362	0.0198	0.2682	1.0700e-003	0.1232	7.0000e-004	0.1239	0.0327	6.5000e-004	0.0333		106.8975	106.8975	1.8100e-003		106.9427

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	15.6563					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2897	2.1997	2.6789	4.1200e-003		0.1341	0.1341		0.1299	0.1299	0.0000	392.4712	392.4712	0.0542		393.8270
Total	15.9460	2.1997	2.6789	4.1200e-003		0.1341	0.1341		0.1299	0.1299	0.0000	392.4712	392.4712	0.0542		393.8270

Forbes Blvd Office and R&D - San Mateo County, Summer

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0362	0.0198	0.2682	1.0700e-003	0.1232	7.0000e-004	0.1239	0.0327	6.5000e-004	0.0333		106.8975	106.8975	1.8100e-003		106.9427
Total	0.0362	0.0198	0.2682	1.0700e-003	0.1232	7.0000e-004	0.1239	0.0327	6.5000e-004	0.0333		106.8975	106.8975	1.8100e-003		106.9427

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Forbes Blvd Office and R&D - San Mateo 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	0.9690	2.3648	9.9809	0.0411	4.6898	0.0252	4.7151	1.2561	0.0235	1.2795		4,167.3585	4,167.3585	0.1407		4,170.8753
Unmitigated	0.9690	2.3648	9.9809	0.0411	4.6898	0.0252	4.7151	1.2561	0.0235	1.2795		4,167.3585	4,167.3585	0.1407		4,170.8753

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Office Park	0.00	0.00	0.00		
Research & Development	880.58	244.61	142.90	1,715,138	1,715,138
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	880.58	244.61	142.90	1,715,138	1,715,138

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
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Unenclosed Parking with	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Forbes Blvd Office and R&D - San Mateo County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Office Park	0.448867	0.051210	0.277116	0.145918	0.016779	0.007633	0.027321	0.006813	0.004476	0.002855	0.009510	0.000605	0.000896
Research & Development	0.448867	0.051210	0.277116	0.145918	0.016779	0.007633	0.027321	0.006813	0.004476	0.002855	0.009510	0.000605	0.000896
Unenclosed Parking with Elevator	0.448867	0.051210	0.277116	0.145918	0.016779	0.007633	0.027321	0.006813	0.004476	0.002855	0.009510	0.000605	0.000896

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0738	0.6707	0.5634	4.0200e-003		0.0510	0.0510		0.0510	0.0510		804.8065	804.8065	0.0154	0.0148	809.5891
NaturalGas Unmitigated	0.0941	0.8559	0.7189	5.1400e-003		0.0650	0.0650		0.0650	0.0650		1,027.0153	1,027.0153	0.0197	0.0188	1,033.1184

Forbes Blvd Office and R&D - San Mateo County, Summer

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					
Research & Development	8729.63	0.0941	0.8559	0.7189	5.1400e-003		0.0650	0.0650		0.0650	0.0650		1,027.0153	1,027.0153	0.0197	0.0188	1,033.1184
Unenclosed 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
Total		0.0941	0.8559	0.7189	5.1400e-003		0.0650	0.0650		0.0650	0.0650		1,027.0153	1,027.0153	0.0197	0.0188	1,033.1184

Mitigated

	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					
Research & Development	6.84086	0.0738	0.6707	0.5634	4.0200e-003		0.0510	0.0510		0.0510	0.0510		804.8065	804.8065	0.0154	0.0148	809.5891
Unenclosed 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
Total		0.0738	0.6707	0.5634	4.0200e-003		0.0510	0.0510		0.0510	0.0510		804.8065	804.8065	0.0154	0.0148	809.5891

6.0 Area Detail

6.1 Mitigation Measures Area

Forbes Blvd Office and R&D - San Mateo 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	3.1642	1.9000e-004	0.0216	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0466	0.0466	1.2000e-004		0.0496
Unmitigated	3.1642	1.9000e-004	0.0216	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0466	0.0466	1.2000e-004		0.0496

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	0.3774					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.7849					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9800e-003	1.9000e-004	0.0216	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0466	0.0466	1.2000e-004		0.0496
Total	3.1643	1.9000e-004	0.0216	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0466	0.0466	1.2000e-004		0.0496

Forbes Blvd Office and R&D - San Mateo County, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3774					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.7849					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9800e-003	1.9000e-004	0.0216	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0466	0.0466	1.2000e-004		0.0496
Total	3.1643	1.9000e-004	0.0216	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0466	0.0466	1.2000e-004		0.0496

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Forbes Blvd Office and R&D - San Mateo County, Summer

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

Forbes Blvd Office and R&D - San Mateo County, Winter

Forbes Blvd Office and R&D
San Mateo County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Research & Development	128.74	1000sqft	2.96	128,740.00	0
Unenclosed Parking with Elevator	84.28	1000sqft	1.93	84,280.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	70
Climate Zone	5			Operational Year	2030
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	298.65	CH4 Intensity (lb/MWhr)	0.014	N2O Intensity (lb/MWhr)	0.003

1.3 User Entered Comments & Non-Default Data

Forbes Blvd Office and R&D - San Mateo County, Winter

Project Characteristics - reduced based on the percentage of renewables reported by PG&E and increase procurement from eligible renewable energy sources

Land Use -

Construction Phase - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Demolition -

Grading - Project site size

Vehicle Trips - Per project traffic analysis

Energy Use -

Construction Off-road Equipment Mitigation -

Energy Mitigation - Per current requirements

Water Mitigation - per 2016 standards

Waste Mitigation -

Architectural Coating -

Water And Wastewater -

Forbes Blvd Office and R&D - San Mateo County, Winter

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Nonresidential_Exterior	64370	64354
tblAreaCoating	Area_Nonresidential_Interior	193109	193062
tblConstructionPhase	NumDays	10.00	88.00
tblConstructionPhase	NumDays	220.00	282.00
tblConstructionPhase	NumDays	20.00	45.00
tblConstructionPhase	NumDays	6.00	20.00
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDays	3.00	21.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Demolition
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.014
tblProjectCharacteristics	CO2IntensityFactor	641.35	298.65
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblVehicleTrips	ST_TR	1.64	0.00
tblVehicleTrips	SU_TR	0.76	0.00
tblVehicleTrips	WD_TR	11.42	0.00
tblVehicleTrips	WD_TR	8.11	6.84

2.0 Emissions Summary

Forbes Blvd Office and R&D - San Mateo County, Winter

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.6377	27.8274	21.2749	0.0412	6.7002	1.3388	7.9542	3.4067	1.2479	4.5604	0.0000	4,111.0410	4,111.0410	1.0122	0.0000	4,134.9605
2021	4.4640	34.2627	31.0051	0.0634	6.7002	1.5519	7.8518	3.4067	1.5072	4.4662	0.0000	6,000.3818	6,000.3818	1.0117	0.0000	6,021.5189
2022	15.9867	31.4408	30.5268	0.0631	0.8688	1.3445	2.2133	0.2358	1.3058	1.5416	0.0000	5,968.4443	5,968.4443	0.8247	0.0000	5,989.0611
Maximum	15.9867	34.2627	31.0051	0.0634	6.7002	1.5519	7.9542	3.4067	1.5072	4.5604	0.0000	6,000.3818	6,000.3818	1.0122	0.0000	6,021.5189

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.6377	27.8274	21.2749	0.0412	6.7002	1.3388	7.9542	3.4067	1.2479	4.5604	0.0000	4,111.0410	4,111.0410	1.0122	0.0000	4,134.9605
2021	4.4640	34.2627	31.0051	0.0634	6.7002	1.5519	7.8518	3.4067	1.5072	4.4662	0.0000	6,000.3818	6,000.3818	1.0117	0.0000	6,021.5189
2022	15.9867	31.4408	30.5268	0.0631	0.8688	1.3445	2.2133	0.2358	1.3058	1.5416	0.0000	5,968.4443	5,968.4443	0.8247	0.0000	5,989.0611
Maximum	15.9867	34.2627	31.0051	0.0634	6.7002	1.5519	7.9542	3.4067	1.5072	4.5604	0.0000	6,000.3818	6,000.3818	1.0122	0.0000	6,021.5189

Forbes Blvd Office and R&D - San Mateo County, 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	3.1642	1.9000e-004	0.0216	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0466	0.0466	1.2000e-004		0.0496
Energy	0.0941	0.8559	0.7189	5.1400e-003		0.0650	0.0650		0.0650	0.0650		1,027.0153	1,027.0153	0.0197	0.0188	1,033.1184
Mobile	0.8844	2.5343	10.2350	0.0392	4.6898	0.0253	4.7151	1.2561	0.0235	1.2796		3,972.8930	3,972.8930	0.1438		3,976.4877
Total	4.1428	3.3903	10.9756	0.0443	4.6898	0.0904	4.7802	1.2561	0.0886	1.3447		4,999.9549	4,999.9549	0.1636	0.0188	5,009.6557

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	3.1642	1.9000e-004	0.0216	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0466	0.0466	1.2000e-004		0.0496
Energy	0.0738	0.6707	0.5634	4.0200e-003		0.0510	0.0510		0.0510	0.0510		804.8065	804.8065	0.0154	0.0148	809.5891
Mobile	0.8844	2.5343	10.2350	0.0392	4.6898	0.0253	4.7151	1.2561	0.0235	1.2796		3,972.8930	3,972.8930	0.1438		3,976.4877
Total	4.1224	3.2051	10.8200	0.0432	4.6898	0.0763	4.7662	1.2561	0.0745	1.3306		4,777.7461	4,777.7461	0.1593	0.0148	4,786.1264

Forbes Blvd Office and R&D - San Mateo County, 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	0.49	5.46	1.42	2.53	0.00	15.57	0.29	0.00	15.88	1.05	0.00	4.44	4.44	2.60	21.67	4.46

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2020	11/2/2020	5	45	
2	Site Preparation	Site Preparation	11/20/2020	12/18/2020	5	21	
3	Grading	Grading	12/19/2020	1/15/2021	5	20	
4	Building Construction	Building Construction	2/1/2021	3/1/2022	5	282	
5	Paving	Paving	3/2/2022	5/2/2022	5	44	
6	Architectural Coating	Architectural Coating	5/3/2022	9/1/2022	5	88	

Acres of Grading (Site Preparation Phase): 31.5

Acres of Grading (Grading Phase): 10

Acres of Paving: 1.93

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 193,109; Non-Residential Outdoor: 64,370; Striped Parking Area: 5,057 (Architectural Coating – sqft)

OffRoad Equipment

Forbes Blvd Office and R&D - San Mateo County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	2	6.00	158	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Excavators	1	6.00	158	0.38
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Grading	Excavators	3	6.00	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	2	7.00	97	0.37
Building Construction	Air Compressors	4	6.00	78	0.48
Building Construction	Cranes	2	8.00	231	0.29
Building Construction	Forklifts	1	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	6	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
Architectural Coating	Forklifts	1	6.00	89	0.20

Trips and VMT

Forbes Blvd Office and R&D - San Mateo County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	7	18.00	0.00	447.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	15	77.00	35.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.1484	0.0000	2.1484	0.3253	0.0000	0.3253			0.0000			0.0000
Off-Road	2.4937	24.5653	19.5590	0.0319		1.3278	1.3278		1.2374	1.2374		3,072.4903	3,072.4903	0.8396		3,093.4795
Total	2.4937	24.5653	19.5590	0.0319	2.1484	1.3278	3.4762	0.3253	1.2374	1.5627		3,072.4903	3,072.4903	0.8396		3,093.4795

Forbes Blvd Office and R&D - San Mateo County, Winter

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0890	3.2260	1.3553	8.0300e-003	0.1725	0.0101	0.1826	0.0472	9.6800e-003	0.0569		908.9756	908.9756	0.1147		911.8422
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	0.0550	0.0362	0.3607	1.3000e-003	0.1479	8.9000e-004	0.1488	0.0392	8.2000e-004	0.0400		129.5751	129.5751	2.5500e-003		129.6388
Total	0.1441	3.2622	1.7159	9.3300e-003	0.3203	0.0110	0.3314	0.0864	0.0105	0.0969		1,038.5507	1,038.5507	0.1172		1,041.4809

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.1484	0.0000	2.1484	0.3253	0.0000	0.3253			0.0000			0.0000
Off-Road	2.4937	24.5653	19.5590	0.0319		1.3278	1.3278		1.2374	1.2374	0.0000	3,072.4903	3,072.4903	0.8396		3,093.4795
Total	2.4937	24.5653	19.5590	0.0319	2.1484	1.3278	3.4762	0.3253	1.2374	1.5627	0.0000	3,072.4903	3,072.4903	0.8396		3,093.4795

Forbes Blvd Office and R&D - San Mateo County, Winter

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0890	3.2260	1.3553	8.0300e-003	0.1725	0.0101	0.1826	0.0472	9.6800e-003	0.0569		908.9756	908.9756	0.1147		911.8422
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	0.0550	0.0362	0.3607	1.3000e-003	0.1479	8.9000e-004	0.1488	0.0392	8.2000e-004	0.0400		129.5751	129.5751	2.5500e-003		129.6388
Total	0.1441	3.2622	1.7159	9.3300e-003	0.3203	0.0110	0.3314	0.0864	0.0105	0.0969		1,038.5507	1,038.5507	0.1172		1,041.4809

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	2.0191	23.5711	15.7134	0.0311		0.9812	0.9812		0.9027	0.9027		3,011.1675	3,011.1675	0.9739		3,035.5143
Total	2.0191	23.5711	15.7134	0.0311	1.5908	0.9812	2.5720	0.1718	0.9027	1.0745		3,011.1675	3,011.1675	0.9739		3,035.5143

Forbes Blvd Office and R&D - San Mateo County, Winter

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0398	0.0261	0.2605	9.4000e-004	0.1068	6.4000e-004	0.1074	0.0283	5.9000e-004	0.0289		93.5820	93.5820	1.8400e-003		93.6280
Total	0.0398	0.0261	0.2605	9.4000e-004	0.1068	6.4000e-004	0.1074	0.0283	5.9000e-004	0.0289		93.5820	93.5820	1.8400e-003		93.6280

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	2.0191	23.5711	15.7134	0.0311		0.9812	0.9812		0.9027	0.9027	0.0000	3,011.1675	3,011.1675	0.9739		3,035.5143
Total	2.0191	23.5711	15.7134	0.0311	1.5908	0.9812	2.5720	0.1718	0.9027	1.0745	0.0000	3,011.1675	3,011.1675	0.9739		3,035.5143

Forbes Blvd Office and R&D - San Mateo County, Winter

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0398	0.0261	0.2605	9.4000e-004	0.1068	6.4000e-004	0.1074	0.0283	5.9000e-004	0.0289		93.5820	93.5820	1.8400e-003		93.6280
Total	0.0398	0.0261	0.2605	9.4000e-004	0.1068	6.4000e-004	0.1074	0.0283	5.9000e-004	0.0289		93.5820	93.5820	1.8400e-003		93.6280

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.4732	26.7702	17.2881	0.0322		1.2531	1.2531		1.1529	1.1529		3,121.6725	3,121.6725	1.0096		3,146.9128
Total	2.4732	26.7702	17.2881	0.0322	6.5523	1.2531	7.8055	3.3675	1.1529	4.5203		3,121.6725	3,121.6725	1.0096		3,146.9128

Forbes Blvd Office and R&D - San Mateo County, Winter

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	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	0.0550	0.0362	0.3607	1.3000e-003	0.1479	8.9000e-004	0.1488	0.0392	8.2000e-004	0.0400		129.5751	129.5751	2.5500e-003		129.6388
Total	0.0550	0.0362	0.3607	1.3000e-003	0.1479	8.9000e-004	0.1488	0.0392	8.2000e-004	0.0400		129.5751	129.5751	2.5500e-003		129.6388

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.4732	26.7702	17.2881	0.0322		1.2531	1.2531		1.1529	1.1529	0.0000	3,121.6725	3,121.6725	1.0096		3,146.9128
Total	2.4732	26.7702	17.2881	0.0322	6.5523	1.2531	7.8055	3.3675	1.1529	4.5203	0.0000	3,121.6725	3,121.6725	1.0096		3,146.9128

Forbes Blvd Office and R&D - San Mateo County, Winter

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	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	0.0550	0.0362	0.3607	1.3000e-003	0.1479	8.9000e-004	0.1488	0.0392	8.2000e-004	0.0400		129.5751	129.5751	2.5500e-003		129.6388
Total	0.0550	0.0362	0.3607	1.3000e-003	0.1479	8.9000e-004	0.1488	0.0392	8.2000e-004	0.0400		129.5751	129.5751	2.5500e-003		129.6388

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.3427	25.0587	17.1220	0.0322		1.1507	1.1507		1.0587	1.0587		3,121.0434	3,121.0434	1.0094		3,146.2786
Total	2.3427	25.0587	17.1220	0.0322	6.5523	1.1507	7.7031	3.3675	1.0587	4.4262		3,121.0434	3,121.0434	1.0094		3,146.2786

Forbes Blvd Office and R&D - San Mateo County, Winter

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0515	0.0325	0.3327	1.2500e-003	0.1479	8.6000e-004	0.1487	0.0392	7.9000e-004	0.0400		124.9665	124.9665	2.2800e-003		125.0236
Total	0.0515	0.0325	0.3327	1.2500e-003	0.1479	8.6000e-004	0.1487	0.0392	7.9000e-004	0.0400		124.9665	124.9665	2.2800e-003		125.0236

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.3427	25.0587	17.1220	0.0322		1.1507	1.1507		1.0587	1.0587	0.0000	3,121.0434	3,121.0434	1.0094		3,146.2786
Total	2.3427	25.0587	17.1220	0.0322	6.5523	1.1507	7.7031	3.3675	1.0587	4.4262	0.0000	3,121.0434	3,121.0434	1.0094		3,146.2786

Forbes Blvd Office and R&D - San Mateo County, Winter

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0515	0.0325	0.3327	1.2500e-003	0.1479	8.6000e-004	0.1487	0.0392	7.9000e-004	0.0400		124.9665	124.9665	2.2800e-003		125.0236
Total	0.0515	0.0325	0.3327	1.2500e-003	0.1479	8.6000e-004	0.1487	0.0392	7.9000e-004	0.0400		124.9665	124.9665	2.2800e-003		125.0236

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	4.1284	30.4792	27.9506	0.0490		1.5396	1.5396		1.4956	1.4956		4,466.3727	4,466.3727	0.7474		4,485,0588
Total	4.1284	30.4792	27.9506	0.0490		1.5396	1.5396		1.4956	1.4956		4,466.3727	4,466.3727	0.7474		4,485,0588

Forbes Blvd Office and R&D - San Mateo County, Winter

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1152	3.6446	1.6314	9.0800e-003	0.2362	8.5900e-003	0.2448	0.0680	8.2100e-003	0.0762		999.4301	999.4301	0.0883		1,001.6368
Worker	0.2205	0.1389	1.4231	5.3600e-003	0.6325	3.6900e-003	0.6362	0.1678	3.4000e-003	0.1712		534.5790	534.5790	9.7700e-003		534.8233
Total	0.3356	3.7836	3.0544	0.0144	0.8688	0.0123	0.8811	0.2358	0.0116	0.2474		1,534.0091	1,534.0091	0.0980		1,536.4601

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	4.1284	30.4792	27.9506	0.0490		1.5396	1.5396		1.4956	1.4956	0.0000	4,466.3727	4,466.3727	0.7474		4,485.0588
Total	4.1284	30.4792	27.9506	0.0490		1.5396	1.5396		1.4956	1.4956	0.0000	4,466.3727	4,466.3727	0.7474		4,485.0588

Forbes Blvd Office and R&D - San Mateo County, Winter

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1152	3.6446	1.6314	9.0800e-003	0.2362	8.5900e-003	0.2448	0.0680	8.2100e-003	0.0762		999.4301	999.4301	0.0883		1,001.6368
Worker	0.2205	0.1389	1.4231	5.3600e-003	0.6325	3.6900e-003	0.6362	0.1678	3.4000e-003	0.1712		534.5790	534.5790	9.7700e-003		534.8233
Total	0.3356	3.7836	3.0544	0.0144	0.8688	0.0123	0.8811	0.2358	0.0116	0.2474		1,534.0091	1,534.0091	0.0980		1,536.4601

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.7774	27.8879	27.5779	0.0490		1.3333	1.3333		1.2952	1.2952		4,466.8100	4,466.8100	0.7283		4,485.0172
Total	3.7774	27.8879	27.5779	0.0490		1.3333	1.3333		1.2952	1.2952		4,466.8100	4,466.8100	0.7283		4,485.0172

Forbes Blvd Office and R&D - San Mateo County, Winter

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1082	3.4276	1.6266	8.9400e-003	0.2363	7.5800e-003	0.2438	0.0680	7.2400e-003	0.0752		986.6064	986.6064	0.0876		988.7959
Worker	0.2087	0.1254	1.3223	5.1600e-003	0.6325	3.6200e-003	0.6362	0.1678	3.3300e-003	0.1711		515.0280	515.0280	8.8000e-003		515.2480
Total	0.3168	3.5530	2.9489	0.0141	0.8688	0.0112	0.8800	0.2358	0.0106	0.2463		1,501.6343	1,501.6343	0.0964		1,504.0439

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	3.7774	27.8879	27.5779	0.0490		1.3333	1.3333		1.2952	1.2952	0.0000	4,466.8100	4,466.8100	0.7283		4,485.0172
Total	3.7774	27.8879	27.5779	0.0490		1.3333	1.3333		1.2952	1.2952	0.0000	4,466.8100	4,466.8100	0.7283		4,485.0172

Forbes Blvd Office and R&D - San Mateo County, Winter

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1082	3.4276	1.6266	8.9400e-003	0.2363	7.5800e-003	0.2438	0.0680	7.2400e-003	0.0752		986.6064	986.6064	0.0876		988.7959
Worker	0.2087	0.1254	1.3223	5.1600e-003	0.6325	3.6200e-003	0.6362	0.1678	3.3300e-003	0.1711		515.0280	515.0280	8.8000e-003		515.2480
Total	0.3168	3.5530	2.9489	0.0141	0.8688	0.0112	0.8800	0.2358	0.0106	0.2463		1,501.6343	1,501.6343	0.0964		1,504.0439

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9396	9.2819	12.0746	0.0183		0.4785	0.4785		0.4414	0.4414		1,756.8244	1,756.8244	0.5571		1,770.7518
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9396	9.2819	12.0746	0.0183		0.4785	0.4785		0.4414	0.4414		1,756.8244	1,756.8244	0.5571		1,770.7518

Forbes Blvd Office and R&D - San Mateo County, Winter

3.6 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0407	0.0244	0.2576	1.0100e-003	0.1232	7.0000e-004	0.1239	0.0327	6.5000e-004	0.0333		100.3301	100.3301	1.7100e-003		100.3730
Total	0.0407	0.0244	0.2576	1.0100e-003	0.1232	7.0000e-004	0.1239	0.0327	6.5000e-004	0.0333		100.3301	100.3301	1.7100e-003		100.3730

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	0.9396	9.2819	12.0746	0.0183		0.4785	0.4785		0.4414	0.4414	0.0000	1,756.8244	1,756.8244	0.5571		1,770.7518
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9396	9.2819	12.0746	0.0183		0.4785	0.4785		0.4414	0.4414	0.0000	1,756.8244	1,756.8244	0.5571		1,770.7518

Forbes Blvd Office and R&D - San Mateo County, Winter

3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0407	0.0244	0.2576	1.0100e-003	0.1232	7.0000e-004	0.1239	0.0327	6.5000e-004	0.0333		100.3301	100.3301	1.7100e-003		100.3730
Total	0.0407	0.0244	0.2576	1.0100e-003	0.1232	7.0000e-004	0.1239	0.0327	6.5000e-004	0.0333		100.3301	100.3301	1.7100e-003		100.3730

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	15.6563					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2897	2.1997	2.6789	4.1200e-003		0.1341	0.1341		0.1299	0.1299		392.4712	392.4712	0.0542		393.8270
Total	15.9460	2.1997	2.6789	4.1200e-003		0.1341	0.1341		0.1299	0.1299		392.4712	392.4712	0.0542		393.8270

Forbes Blvd Office and R&D - San Mateo County, Winter

3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0407	0.0244	0.2576	1.0100e-003	0.1232	7.0000e-004	0.1239	0.0327	6.5000e-004	0.0333		100.3301	100.3301	1.7100e-003		100.3730
Total	0.0407	0.0244	0.2576	1.0100e-003	0.1232	7.0000e-004	0.1239	0.0327	6.5000e-004	0.0333		100.3301	100.3301	1.7100e-003		100.3730

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	15.6563					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2897	2.1997	2.6789	4.1200e-003		0.1341	0.1341		0.1299	0.1299	0.0000	392.4712	392.4712	0.0542		393.8270
Total	15.9460	2.1997	2.6789	4.1200e-003		0.1341	0.1341		0.1299	0.1299	0.0000	392.4712	392.4712	0.0542		393.8270

Forbes Blvd Office and R&D - San Mateo County, Winter

3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0407	0.0244	0.2576	1.0100e-003	0.1232	7.0000e-004	0.1239	0.0327	6.5000e-004	0.0333		100.3301	100.3301	1.7100e-003		100.3730
Total	0.0407	0.0244	0.2576	1.0100e-003	0.1232	7.0000e-004	0.1239	0.0327	6.5000e-004	0.0333		100.3301	100.3301	1.7100e-003		100.3730

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Forbes Blvd Office and R&D - San Mateo County, 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	0.8844	2.5343	10.2350	0.0392	4.6898	0.0253	4.7151	1.2561	0.0235	1.2796		3,972.8930	3,972.8930	0.1438		3,976.4877
Unmitigated	0.8844	2.5343	10.2350	0.0392	4.6898	0.0253	4.7151	1.2561	0.0235	1.2796		3,972.8930	3,972.8930	0.1438		3,976.4877

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Office Park	0.00	0.00	0.00		
Research & Development	880.58	244.61	142.90	1,715,138	1,715,138
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	880.58	244.61	142.90	1,715,138	1,715,138

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
Office Park	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Research & Development	9.50	7.30	7.30	33.00	48.00	19.00	82	15	3
Unenclosed Parking with	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Forbes Blvd Office and R&D - San Mateo County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Office Park	0.448867	0.051210	0.277116	0.145918	0.016779	0.007633	0.027321	0.006813	0.004476	0.002855	0.009510	0.000605	0.000896
Research & Development	0.448867	0.051210	0.277116	0.145918	0.016779	0.007633	0.027321	0.006813	0.004476	0.002855	0.009510	0.000605	0.000896
Unenclosed Parking with Elevator	0.448867	0.051210	0.277116	0.145918	0.016779	0.007633	0.027321	0.006813	0.004476	0.002855	0.009510	0.000605	0.000896

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0738	0.6707	0.5634	4.0200e-003		0.0510	0.0510		0.0510	0.0510		804.8065	804.8065	0.0154	0.0148	809.5891
NaturalGas Unmitigated	0.0941	0.8559	0.7189	5.1400e-003		0.0650	0.0650		0.0650	0.0650		1,027.0153	1,027.0153	0.0197	0.0188	1,033.1184

Forbes Blvd Office and R&D - San Mateo County, 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					
Research & Development	8729.63	0.0941	0.8559	0.7189	5.1400e-003		0.0650	0.0650		0.0650	0.0650		1,027.0153	1,027.0153	0.0197	0.0188	1,033.1184
Unenclosed 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
Total		0.0941	0.8559	0.7189	5.1400e-003		0.0650	0.0650		0.0650	0.0650		1,027.0153	1,027.0153	0.0197	0.0188	1,033.1184

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					
Research & Development	6.84086	0.0738	0.6707	0.5634	4.0200e-003		0.0510	0.0510		0.0510	0.0510		804.8065	804.8065	0.0154	0.0148	809.5891
Unenclosed 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
Total		0.0738	0.6707	0.5634	4.0200e-003		0.0510	0.0510		0.0510	0.0510		804.8065	804.8065	0.0154	0.0148	809.5891

6.0 Area Detail

6.1 Mitigation Measures Area

Forbes Blvd Office and R&D - San Mateo County, 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	3.1642	1.9000e-004	0.0216	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0466	0.0466	1.2000e-004		0.0496
Unmitigated	3.1642	1.9000e-004	0.0216	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0466	0.0466	1.2000e-004		0.0496

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	0.3774					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.7849					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9800e-003	1.9000e-004	0.0216	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0466	0.0466	1.2000e-004		0.0496
Total	3.1643	1.9000e-004	0.0216	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0466	0.0466	1.2000e-004		0.0496

Forbes Blvd Office and R&D - San Mateo County, 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	0.3774					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.7849					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9800e-003	1.9000e-004	0.0216	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0466	0.0466	1.2000e-004		0.0496
Total	3.1643	1.9000e-004	0.0216	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005		0.0466	0.0466	1.2000e-004		0.0496

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Forbes Blvd Office and R&D - San Mateo County, Winter

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

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Last Updated: DATE

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 Day	Horsepower	Load Factor	Construction Phase	Fuel Used (gallons)
Rubber Tired Dozer	1	8	247	0.40	Demo	1,880.09
Concrete Saws	1	8	81	0.73	Demo	1,250.90
Tractors/Loaders/Backhoes	3	8	97	0.37	Demo	2,277.77
Excavators	2	6	158	0.38	Demo	1,713.77
Graders	1	8	187	0.41	Site Prep	680.85
Excavators	1	6	158	0.38	Site Prep	399.88
Tractors/Loaders/Backhoes	2	7	97	0.37	Site Prep	620.06
Scrapers	1	8	367	0.48	Site Prep	1,564.36
Graders	1	8	187	0.41	Grading	648.43
Excavators	3	6	158	0.38	Grading	1,142.52
Rubber Tired Dozer	1	8	247	0.40	Grading	835.59
Tractors/Loaders/Backhoes	2	7	97	0.37	Grading	590.53
Cranes	2	8	231	0.29	Building	15,977.10
Forklifts	1	7	89	0.20	Building	2,064.81
Generator Sets	1	8	84	0.74	Building	8,240.68
Tractors/Loaders/Backhoes	1	6	97	0.37	Building	3,568.51
Welders	6	8	46	0.45	Building	16,465.45
Air Compressors	4	6	78	0.48	Building	14,890.50
Air Compressors	1	6	78	0.48	Arch Coating	1,161.67
Forklifts	1	6	89	0.20	Arch Coating	552.29
Pavers	1	8	130	0.42	Paving	1,015.91
Paving Equipment	1	8	132	0.36	Paving	884.17
Tractors/Loaders/Backhoes	2	8	97	0.37	Pacing	1,484.77
Rollers	1	8	80	0.38	Paving	628.82
Cement and Mixers	1	8	9	0.56	Paving	104.25
Total Fuel Used						80,643.70 (Gallons)

Construction Phase	Days of Operation
Demolition Phase	45
Site Preparation Phase	21
Grading Phase	20
Building Construction Phase	282
Architectural Coating Phase	88
Paving	44
Total Days	500

WORKER TRIPS

Constuction Phase	MPG [2]	Trips	Trip Length (miles)	Fuel Used (gallons)
Demolition	24.0	18	10.8	364.50
Site Prep Phase	24.0	13	10.8	122.85
Grading Phase	24.0	18	10.8	162.00
Building Phase	24.0	77	10.8	9771.30
Paving Phase	24.0	15	10.8	594.00
Architectural Coating Phase	24.0	15	10.8	297.00
Total				11,311.65

HAULING AND VENDOR TRIPS

Trip Class	MPG [2]	Trips	Trip Length (miles)	Fuel Used (gallons)
HAULING TRIPS				
Demolition	7.4	447	10.8	652.38
Site Prep Phase	7.4	0	10.8	0.00
Grading Phase	7.4	0	10.8	0.00
Building Phase	7.4	0	10.8	0.00
Paving Phase	7.4	0	10.8	0.00
Architectural Coating Phase	7.4	0	10.8	0.00
Total				652.38
VENDOR TRIPS				
Demolition	7.4	0	7.3	0.00
Site Prep Phase	7.4	0	7.3	0.00
Grading Phase	7.4	0	7.3	0.00
Building Phase	7.4	35	7.3	9736.62
Paving Phase	7.4	0	7.3	0.00
Architectural Coating Phase	7.4	0	7.3	0.00
Total				8.00

Total Gasoline Consumption (gallons)	11,311.65
Total Diesel Consumption (gallons)	81,304.08

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. 2018. *National Transportation Statistics 2018* . Available at: <https://www.bts.gov/sites/bts.dot.gov/files/docs/browse-statistical-products-and-data/national-transportation-statistics/223001/ntsntire2018q4.pdf>.

499 Forbes R&D

Last Updated:

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

Annual VMT	OR	Daily Vehicle Trips
Annual VMT: 1,715,138		Daily Vehicle Trips: Average Trip Distance:

Fleet Class	Fleet Mix	Fuel Economy (MPG) [1]	
Light Duty Auto (LDA)	0.448867	LDA	39.39
Light Duty Truck 1 (LDT1)	0.051210	LDT1	35.45
Light Duty Truck 2 (LDT2)	0.277116	LDT2	30.97
Medium Duty Vehicle (MDV)	0.145918	MDV	23.17
Light Heavy Duty 1 (LHD1)	0.016779	LHD1	18.95
Light Heavy Duty 2 (LHD2)	0.007633	LHD2	17.01
Medium Heavy Duty (MHD)	0.027321	T6 Public	8.34
Heavy Heavy Duty (HHD)	0.006813	T7 Public	5.19
Other Bus (OBUS)	0.004476	OBUS	6.79
Urban Bus (UBUS)	0.002855	UBUS	4.71
School Bus (SBUS)	0.000605	SBUS	7.41
Motorhome (MH)	0.000896	MH	9.98
Motorcycle (MCY)	0.009510	MCY	37.52

Fleet Mix

Vehicle Type	Percent	Fuel Type	Annual VMT: VMT	Vehicle Trips: VMT	Fuel Consumption (Gallons)
Light Duty Auto (LDA)		Gasoline	769,868.85		19544.78406
Light Duty Truck 1 (LDT1)		Gasoline	87,832.22		2477.294168
Light Duty Truck 2 (LDT2)		Gasoline	475,292.18		15347.80916
Medium Duty Vehicle (MDV)		Gasoline	250,269.51		10803.72157
Light Heavy Duty 1 (LHD1)		Diesel	28,778.30		1518.457124
Light Heavy Duty 2 (LHD2)		Diesel	13,091.65		769.6854067
Medium Heavy Duty (MHD)		Diesel	46,859.29		5619.08086
Heavy Heavy Duty (HHD)		Diesel	11,685.24		2253.554208
Other Bus (OBUS)		Diesel	7,676.96		1130.383662
Urban Bus (UBUS)		Diesel	4,896.72		1039.455069
School Bus (SBUS)		Diesel	1,037.66		139.9548585
Motorhome (MH)		Diesel	1,536.76		154.0218667
Motorcycle (MCY)		Gasoline	16,310.96		434.7245933

Total Gasoline Consumption (gallons)	48,608.33
Total Diesel Consumption (gallons)	12,624.59

Sources:

[1] California Air Resources Board (CARB). 2015. "EMFAC2014 Web Database." December 14, 2015. <https://www.arb.ca.gov/emfac/2014/> (accessed March 15, 2019).

N2O Operational GHG Emission Mobile Calculations

Project Code & Title: 499 Forbes R&D

Vehicle Population Breakdown*	
658683	Gasoline vehicles
18378	Diesel vehicles
97.3%	Gasoline vehicle %
2.7%	Diesel vehicle %

VMT per Vehicle Type	
1715138	Project VMT (CalEEMod output)
1668583	Gasoline vehicle VMT
46555	Diesel vehicle VMT

Gasoline Vehicles	
97.3%	Gasoline vehicle %
0.47	Tons per year mobile NOX emissions (annual output in CalEEMod)
0.46	Gasoline vehicle tons per year NOX emissions
4.16%	Percentage to convert NOX emissions to N2O **
0.0190	Tons per year N2O emissions for gasoline vehicles
0.0173	Metric tons per year N2O emissions for gasoline vehicles

Diesel Vehicles	
0.3316	grams N2O per gallon of fuel for diesel vehicles**
26.46	Diesel average miles per gallon*
0.01253	grams per mile N2O for diesel vehicles
583.3	grams per year N2O for diesel vehicles
0.0005833	Metric tons per year N2O emissions for diesel vehicles

CO2E Emissions from N2O	
0.0178	Metric tons per year from gasoline + diesel vehicles
265	GWP of N2O***
4.7	CO2E emissions per year from N2O emissions from gasoline + diesel vehicles

Sources
<p>*Vehicle population source: EMFAC2014 (v1.0.7) Emissions Inventory Region Type: Air District Region: SCAQMD Calendar Year: 2022 Season: Annual Vehicle Classification: EMFAC2011 Categories</p> <p>**Methodology source: EMFAC2011 Frequently Asked Questions https://www.arb.ca.gov/msei/emfac2011-faq.htm</p> <p>***GWP source: Intergovernmental Panel on Climate Change (IPCC). 2014. AR5 Climate Change 2014 Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change.</p>

Forbes Blvd Office - San Mateo County, Annual

Forbes Blvd Office
San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	77.00	1000sqft	1.77	77,000.00	0
Unenclosed Parking with Elevator	84.28	1000sqft	1.93	84,280.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	70
Climate Zone	5			Operational Year	2030
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	298.65	CH4 Intensity (lb/MWhr)	0.014	N2O Intensity (lb/MWhr)	0.003

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - reduced based on the percentage of renewables reported by PG&E and increase procurement from eligible renewable energy sources

Land Use -

Construction Phase - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Trips and VMT -

Demolition -

Grading - Project site size

Architectural Coating -

Vehicle Trips - Per project traffic analysis

Area Coating -

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation -

Energy Mitigation - Per current requirements

Water Mitigation - per 2016 standards

Waste Mitigation -

Fleet Mix -

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Table Name	Column Name	Default Value	New Value
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.014
tblProjectCharacteristics	CO2IntensityFactor	641.35	298.65
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003

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	9-1-2020	11-30-2020	1.0641	1.0641
2	12-1-2020	2-28-2021	0.7459	0.7459
3	3-1-2021	5-31-2021	0.7345	0.7345
4	6-1-2021	8-31-2021	0.7336	0.7336
5	9-1-2021	9-30-2021	0.1621	0.1621
		Highest	1.0641	1.0641

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	0.3482	1.0000e-005	1.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.8800e-003	2.8800e-003	1.0000e-005	0.0000	3.0700e-003
Energy	8.0300e-003	0.0730	0.0613	4.4000e-004		5.5500e-003	5.5500e-003		5.5500e-003	5.5500e-003	0.0000	231.7530	231.7530	8.6600e-003	2.9900e-003	232.8595
Mobile	0.1148	0.3208	1.2616	5.0000e-003	0.5719	3.2300e-003	0.5752	0.1537	3.0000e-003	0.1567	0.0000	460.2491	460.2491	0.0164	0.0000	460.6584
Waste						0.0000	0.0000		0.0000	0.0000	14.5362	0.0000	14.5362	0.8591	0.0000	36.0128
Water						0.0000	0.0000		0.0000	0.0000	4.3418	14.0085	18.3502	0.4466	0.0107	32.6950
Total	0.4710	0.3938	1.3243	5.4400e-003	0.5719	8.7900e-003	0.5807	0.1537	8.5600e-003	0.1623	18.8780	706.0134	724.8914	1.3307	0.0137	762.2288

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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	0.3482	1.0000e-005	1.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.8800e-003	2.8800e-003	1.0000e-005	0.0000	3.0700e-003
Energy	5.7400e-003	0.0522	0.0439	3.1000e-004		3.9700e-003	3.9700e-003		3.9700e-003	3.9700e-003	0.0000	196.3400	196.3400	7.6300e-003	2.4400e-003	197.2588
Mobile	0.1148	0.3208	1.2616	5.0000e-003	0.5719	3.2300e-003	0.5752	0.1537	3.0000e-003	0.1567	0.0000	460.2491	460.2491	0.0164	0.0000	460.6584
Waste						0.0000	0.0000		0.0000	0.0000	14.5362	0.0000	14.5362	0.8591	0.0000	36.0128
Water						0.0000	0.0000		0.0000	0.0000	3.4734	12.0022	15.4756	0.3573	8.5400e-003	26.9547
Total	0.4687	0.3731	1.3069	5.3100e-003	0.5719	7.2100e-003	0.5792	0.1537	6.9800e-003	0.1607	18.0096	668.5941	686.6037	1.2404	0.0110	720.8878

	ROG	NOx	CO	SO2	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	0.49	5.27	1.32	2.39	0.00	17.97	0.27	0.00	18.46	0.97	4.60	5.30	5.28	6.79	19.62	5.42

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	9/1/2020	9/28/2020	5	20	
2	Site Preparation	Site Preparation	9/29/2020	10/5/2020	5	5	
3	Grading	Grading	10/6/2020	10/15/2020	5	8	
4	Building Construction	Building Construction	10/16/2020	9/2/2021	5	230	
5	Paving	Paving	9/3/2021	9/28/2021	5	18	
6	Architectural Coating	Architectural Coating	9/29/2021	10/22/2021	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 1.93

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 115,500; Non-Residential Outdoor: 38,500; Striped Parking Area: 5,057 (Architectural Coating – sqft)

OffRoad Equipment

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

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	447.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	60.00	26.00	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	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0483	0.0000	0.0483	7.3200e-003	0.0000	7.3200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166		0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2386
Total	0.0331	0.3320	0.2175	3.9000e-004	0.0483	0.0166	0.0649	7.3200e-003	0.0154	0.0227	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2386

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3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9800e-003	0.0721	0.0301	1.8000e-004	3.7400e-003	2.2000e-004	3.9600e-003	1.0300e-003	2.1000e-004	1.2400e-003	0.0000	18.6693	18.6693	2.3300e-003	0.0000	18.7275
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	2.8000e-004	2.9200e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9833	0.9833	2.0000e-005	0.0000	0.9838
Total	2.3900e-003	0.0724	0.0330	1.9000e-004	4.9200e-003	2.3000e-004	5.1500e-003	1.3400e-003	2.2000e-004	1.5600e-003	0.0000	19.6526	19.6526	2.3500e-003	0.0000	19.7113

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					0.0483	0.0000	0.0483	7.3200e-003	0.0000	7.3200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0331	0.3320	0.2175	3.9000e-004		0.0166	0.0166		0.0154	0.0154	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2385
Total	0.0331	0.3320	0.2175	3.9000e-004	0.0483	0.0166	0.0649	7.3200e-003	0.0154	0.0227	0.0000	33.9986	33.9986	9.6000e-003	0.0000	34.2385

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3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9800e-003	0.0721	0.0301	1.8000e-004	3.7400e-003	2.2000e-004	3.9600e-003	1.0300e-003	2.1000e-004	1.2400e-003	0.0000	18.6693	18.6693	2.3300e-003	0.0000	18.7275
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.1000e-004	2.8000e-004	2.9200e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9833	0.9833	2.0000e-005	0.0000	0.9838
Total	2.3900e-003	0.0724	0.0330	1.9000e-004	4.9200e-003	2.3000e-004	5.1500e-003	1.3400e-003	2.2000e-004	1.5600e-003	0.0000	19.6526	19.6526	2.3500e-003	0.0000	19.7113

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0102	0.1060	0.0538	1.0000e-004		5.4900e-003	5.4900e-003		5.0500e-003	5.0500e-003	0.0000	8.3577	8.3577	2.7000e-003	0.0000	8.4253
Total	0.0102	0.1060	0.0538	1.0000e-004	0.0452	5.4900e-003	0.0507	0.0248	5.0500e-003	0.0299	0.0000	8.3577	8.3577	2.7000e-003	0.0000	8.4253

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3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	8.0000e-005	8.8000e-004	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2950	0.2950	1.0000e-005	0.0000	0.2951
Total	1.2000e-004	8.0000e-005	8.8000e-004	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2950	0.2950	1.0000e-005	0.0000	0.2951

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					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0102	0.1060	0.0538	1.0000e-004		5.4900e-003	5.4900e-003		5.0500e-003	5.0500e-003	0.0000	8.3577	8.3577	2.7000e-003	0.0000	8.4252
Total	0.0102	0.1060	0.0538	1.0000e-004	0.0452	5.4900e-003	0.0507	0.0248	5.0500e-003	0.0299	0.0000	8.3577	8.3577	2.7000e-003	0.0000	8.4252

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3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	8.0000e-005	8.8000e-004	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2950	0.2950	1.0000e-005	0.0000	0.2951
Total	1.2000e-004	8.0000e-005	8.8000e-004	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.2950	0.2950	1.0000e-005	0.0000	0.2951

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					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7200e-003	0.1055	0.0642	1.2000e-004		5.0900e-003	5.0900e-003		4.6900e-003	4.6900e-003	0.0000	10.4235	10.4235	3.3700e-003	0.0000	10.5078
Total	9.7200e-003	0.1055	0.0642	1.2000e-004	0.0262	5.0900e-003	0.0313	0.0135	4.6900e-003	0.0182	0.0000	10.4235	10.4235	3.3700e-003	0.0000	10.5078

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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	0.0000	0.0000	0.0000	0.0000	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	1.6000e-004	1.1000e-004	1.1700e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3933	0.3933	1.0000e-005	0.0000	0.3935
Total	1.6000e-004	1.1000e-004	1.1700e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3933	0.3933	1.0000e-005	0.0000	0.3935

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					0.0262	0.0000	0.0262	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7200e-003	0.1055	0.0642	1.2000e-004		5.0900e-003	5.0900e-003		4.6900e-003	4.6900e-003	0.0000	10.4235	10.4235	3.3700e-003	0.0000	10.5078
Total	9.7200e-003	0.1055	0.0642	1.2000e-004	0.0262	5.0900e-003	0.0313	0.0135	4.6900e-003	0.0182	0.0000	10.4235	10.4235	3.3700e-003	0.0000	10.5078

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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	0.0000	0.0000	0.0000	0.0000	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	1.6000e-004	1.1000e-004	1.1700e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3933	0.3933	1.0000e-005	0.0000	0.3935
Total	1.6000e-004	1.1000e-004	1.1700e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3933	0.3933	1.0000e-005	0.0000	0.3935

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	0.0583	0.5276	0.4633	7.4000e-004		0.0307	0.0307		0.0289	0.0289	0.0000	63.6928	63.6928	0.0155	0.0000	64.0812
Total	0.0583	0.5276	0.4633	7.4000e-004		0.0307	0.0307		0.0289	0.0289	0.0000	63.6928	63.6928	0.0155	0.0000	64.0812

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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	2.7700e-003	0.0829	0.0330	1.9000e-004	4.6600e-003	4.1000e-004	5.0700e-003	1.3500e-003	4.0000e-004	1.7400e-003	0.0000	18.9471	18.9471	1.6500e-003	0.0000	18.9882
Worker	4.5000e-003	3.0500e-003	0.0321	1.2000e-004	0.0130	8.0000e-005	0.0131	3.4600e-003	8.0000e-005	3.5300e-003	0.0000	10.8162	10.8162	2.1000e-004	0.0000	10.8215
Total	7.2700e-003	0.0860	0.0651	3.1000e-004	0.0177	4.9000e-004	0.0181	4.8100e-003	4.8000e-004	5.2700e-003	0.0000	29.7633	29.7633	1.8600e-003	0.0000	29.8097

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	0.0583	0.5276	0.4633	7.4000e-004		0.0307	0.0307		0.0289	0.0289	0.0000	63.6927	63.6927	0.0155	0.0000	64.0811
Total	0.0583	0.5276	0.4633	7.4000e-004		0.0307	0.0307		0.0289	0.0289	0.0000	63.6927	63.6927	0.0155	0.0000	64.0811

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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	2.7700e-003	0.0829	0.0330	1.9000e-004	4.6600e-003	4.1000e-004	5.0700e-003	1.3500e-003	4.0000e-004	1.7400e-003	0.0000	18.9471	18.9471	1.6500e-003	0.0000	18.9882
Worker	4.5000e-003	3.0500e-003	0.0321	1.2000e-004	0.0130	8.0000e-005	0.0131	3.4600e-003	8.0000e-005	3.5300e-003	0.0000	10.8162	10.8162	2.1000e-004	0.0000	10.8215
Total	7.2700e-003	0.0860	0.0651	3.1000e-004	0.0177	4.9000e-004	0.0181	4.8100e-003	4.8000e-004	5.2700e-003	0.0000	29.7633	29.7633	1.8600e-003	0.0000	29.8097

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	0.1663	1.5253	1.4503	2.3600e-003		0.0839	0.0839		0.0789	0.0789	0.0000	202.6826	202.6826	0.0489	0.0000	203.9051
Total	0.1663	1.5253	1.4503	2.3600e-003		0.0839	0.0839		0.0789	0.0789	0.0000	202.6826	202.6826	0.0489	0.0000	203.9051

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3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.2700e-003	0.2369	0.1017	6.0000e-004	0.0148	5.4000e-004	0.0154	4.2900e-003	5.2000e-004	4.8100e-003	0.0000	59.5375	59.5375	5.1500e-003	0.0000	59.6661
Worker	0.0134	8.7100e-003	0.0943	3.7000e-004	0.0413	2.5000e-004	0.0416	0.0110	2.3000e-004	0.0112	0.0000	33.1911	33.1911	6.0000e-004	0.0000	33.2061
Total	0.0207	0.2456	0.1960	9.7000e-004	0.0562	7.9000e-004	0.0570	0.0153	7.5000e-004	0.0160	0.0000	92.7285	92.7285	5.7500e-003	0.0000	92.8722

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	0.1663	1.5253	1.4503	2.3600e-003		0.0839	0.0839		0.0789	0.0789	0.0000	202.6824	202.6824	0.0489	0.0000	203.9048
Total	0.1663	1.5253	1.4503	2.3600e-003		0.0839	0.0839		0.0789	0.0789	0.0000	202.6824	202.6824	0.0489	0.0000	203.9048

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3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.2700e-003	0.2369	0.1017	6.0000e-004	0.0148	5.4000e-004	0.0154	4.2900e-003	5.2000e-004	4.8100e-003	0.0000	59.5375	59.5375	5.1500e-003	0.0000	59.6661
Worker	0.0134	8.7100e-003	0.0943	3.7000e-004	0.0413	2.5000e-004	0.0416	0.0110	2.3000e-004	0.0112	0.0000	33.1911	33.1911	6.0000e-004	0.0000	33.2061
Total	0.0207	0.2456	0.1960	9.7000e-004	0.0562	7.9000e-004	0.0570	0.0153	7.5000e-004	0.0160	0.0000	92.7285	92.7285	5.7500e-003	0.0000	92.8722

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	9.8500e-003	0.0976	0.1103	1.7000e-004		5.2100e-003	5.2100e-003		4.8100e-003	4.8100e-003	0.0000	14.7336	14.7336	4.6300e-003	0.0000	14.8493
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	9.8500e-003	0.0976	0.1103	1.7000e-004		5.2100e-003	5.2100e-003		4.8100e-003	4.8100e-003	0.0000	14.7336	14.7336	4.6300e-003	0.0000	14.8493

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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	4.6000e-004	3.0000e-004	3.2300e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1380	1.1380	2.0000e-005	0.0000	1.1385
Total	4.6000e-004	3.0000e-004	3.2300e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1380	1.1380	2.0000e-005	0.0000	1.1385

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	9.8500e-003	0.0976	0.1103	1.7000e-004		5.2100e-003	5.2100e-003		4.8100e-003	4.8100e-003	0.0000	14.7335	14.7335	4.6300e-003	0.0000	14.8493
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	9.8500e-003	0.0976	0.1103	1.7000e-004		5.2100e-003	5.2100e-003		4.8100e-003	4.8100e-003	0.0000	14.7335	14.7335	4.6300e-003	0.0000	14.8493

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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	4.6000e-004	3.0000e-004	3.2300e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1380	1.1380	2.0000e-005	0.0000	1.1385
Total	4.6000e-004	3.0000e-004	3.2300e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1380	1.1380	2.0000e-005	0.0000	1.1385

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	0.4191					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9700e-003	0.0137	0.0164	3.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	2.2979	2.2979	1.6000e-004	0.0000	2.3019
Total	0.4211	0.0137	0.0164	3.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	2.2979	2.2979	1.6000e-004	0.0000	2.3019

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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	2.8000e-004	1.8000e-004	1.9400e-003	1.0000e-005	8.5000e-004	1.0000e-005	8.6000e-004	2.3000e-004	0.0000	2.3000e-004	0.0000	0.6828	0.6828	1.0000e-005	0.0000	0.6831
Total	2.8000e-004	1.8000e-004	1.9400e-003	1.0000e-005	8.5000e-004	1.0000e-005	8.6000e-004	2.3000e-004	0.0000	2.3000e-004	0.0000	0.6828	0.6828	1.0000e-005	0.0000	0.6831

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	0.4191					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9700e-003	0.0137	0.0164	3.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	2.2979	2.2979	1.6000e-004	0.0000	2.3019
Total	0.4211	0.0137	0.0164	3.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	2.2979	2.2979	1.6000e-004	0.0000	2.3019

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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	2.8000e-004	1.8000e-004	1.9400e-003	1.0000e-005	8.5000e-004	1.0000e-005	8.6000e-004	2.3000e-004	0.0000	2.3000e-004	0.0000	0.6828	0.6828	1.0000e-005	0.0000	0.6831
Total	2.8000e-004	1.8000e-004	1.9400e-003	1.0000e-005	8.5000e-004	1.0000e-005	8.6000e-004	2.3000e-004	0.0000	2.3000e-004	0.0000	0.6828	0.6828	1.0000e-005	0.0000	0.6831

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	0.1148	0.3208	1.2616	5.0000e-003	0.5719	3.2300e-003	0.5752	0.1537	3.0000e-003	0.1567	0.0000	460.2491	460.2491	0.0164	0.0000	460.6584
Unmitigated	0.1148	0.3208	1.2616	5.0000e-003	0.5719	3.2300e-003	0.5752	0.1537	3.0000e-003	0.1567	0.0000	460.2491	460.2491	0.0164	0.0000	460.6584

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	849.31	189.42	80.85	1,542,012	1,542,012
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	849.31	189.42	80.85	1,542,012	1,542,012

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
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Unenclosed Parking with Elevator	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
General Office Building	0.448867	0.051210	0.277116	0.145918	0.016779	0.007633	0.027321	0.006813	0.004476	0.002855	0.009510	0.000605	0.000896
Unenclosed Parking with Elevator	0.448867	0.051210	0.277116	0.145918	0.016779	0.007633	0.027321	0.006813	0.004476	0.002855	0.009510	0.000605	0.000896

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive 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	139.4959	139.4959	6.5400e-003	1.4000e-003	140.0770
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	152.3258	152.3258	7.1400e-003	1.5300e-003	152.9603
NaturalGas Mitigated	5.7400e-003	0.0522	0.0439	3.1000e-004		3.9700e-003	3.9700e-003		3.9700e-003	3.9700e-003	0.0000	56.8441	56.8441	1.0900e-003	1.0400e-003	57.1819
NaturalGas Unmitigated	8.0300e-003	0.0730	0.0613	4.4000e-004		5.5500e-003	5.5500e-003		5.5500e-003	5.5500e-003	0.0000	79.4272	79.4272	1.5200e-003	1.4600e-003	79.8992

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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					
General Office Building	1.48841e+006	8.0300e-003	0.0730	0.0613	4.4000e-004		5.5500e-003	5.5500e-003		5.5500e-003	5.5500e-003	0.0000	79.4272	79.4272	1.5200e-003	1.4600e-003	79.8992
Unenclosed 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
Total		8.0300e-003	0.0730	0.0613	4.4000e-004		5.5500e-003	5.5500e-003		5.5500e-003	5.5500e-003	0.0000	79.4272	79.4272	1.5200e-003	1.4600e-003	79.8992

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					
General Office Building	1.06522e+006	5.7400e-003	0.0522	0.0439	3.1000e-004		3.9700e-003	3.9700e-003		3.9700e-003	3.9700e-003	0.0000	56.8441	56.8441	1.0900e-003	1.0400e-003	57.1819
Unenclosed 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
Total		5.7400e-003	0.0522	0.0439	3.1000e-004		3.9700e-003	3.9700e-003		3.9700e-003	3.9700e-003	0.0000	56.8441	56.8441	1.0900e-003	1.0400e-003	57.1819

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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			
General Office Building	960960	130.1768	6.1000e-003	1.3100e-003	130.7190
Unenclosed Parking with Elevator	163503	22.1490	1.0400e-003	2.2000e-004	22.2413
Total		152.3258	7.1400e-003	1.5300e-003	152.9603

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	866250	117.3469	5.5000e-003	1.1800e-003	117.8357
Unenclosed Parking with Elevator	163503	22.1490	1.0400e-003	2.2000e-004	22.2413
Total		139.4959	6.5400e-003	1.4000e-003	140.0770

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	0.3482	1.0000e-005	1.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.8800e-003	2.8800e-003	1.0000e-005	0.0000	3.0700e-003
Unmitigated	0.3482	1.0000e-005	1.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.8800e-003	2.8800e-003	1.0000e-005	0.0000	3.0700e-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	0.0419					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3062					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.3000e-004	1.0000e-005	1.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.8800e-003	2.8800e-003	1.0000e-005	0.0000	3.0700e-003
Total	0.3482	1.0000e-005	1.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.8800e-003	2.8800e-003	1.0000e-005	0.0000	3.0700e-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	0.0419					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3062					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.3000e-004	1.0000e-005	1.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.8800e-003	2.8800e-003	1.0000e-005	0.0000	3.0700e-003
Total	0.3482	1.0000e-005	1.4700e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	2.8800e-003	2.8800e-003	1.0000e-005	0.0000	3.0700e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Forbes Blvd Office - San Mateo County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	15.4756	0.3573	8.5400e-003	26.9547
Unmitigated	18.3502	0.4466	0.0107	32.6950

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	13.6855 / 8.38789	18.3502	0.4466	0.0107	32.6950
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		18.3502	0.4466	0.0107	32.6950

Forbes Blvd Office - San Mateo County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	10.9484 / 8.38789	15.4756	0.3573	8.5400e-003	26.9547
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		15.4756	0.3573	8.5400e-003	26.9547

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	14.5362	0.8591	0.0000	36.0128
Unmitigated	14.5362	0.8591	0.0000	36.0128

Forbes Blvd Office - San Mateo County, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	71.61	14.5362	0.8591	0.0000	36.0128
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		14.5362	0.8591	0.0000	36.0128

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	71.61	14.5362	0.8591	0.0000	36.0128
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		14.5362	0.8591	0.0000	36.0128

9.0 Operational Offroad

Forbes Blvd Office - San Mateo County, Annual

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

Forbes Blvd Office - San Mateo County, Summer

Forbes Blvd Office
San Mateo County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	77.00	1000sqft	1.77	77,000.00	0
Unenclosed Parking with Elevator	84.28	1000sqft	1.93	84,280.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	70
Climate Zone	5			Operational Year	2030
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	298.65	CH4 Intensity (lb/MWhr)	0.014	N2O Intensity (lb/MWhr)	0.003

1.3 User Entered Comments & Non-Default Data

Forbes Blvd Office - San Mateo County, Summer

Project Characteristics - reduced based on the percentage of renewables reported by PG&E and increase procurement from eligible renewable energy sources

Land Use -

Construction Phase - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Trips and VMT -

Demolition -

Grading - Project site size

Architectural Coating -

Vehicle Trips - Per project traffic analysis

Area Coating -

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation -

Energy Mitigation - Per current requirements

Water Mitigation - per 2016 standards

Waste Mitigation -

Fleet Mix -

Forbes Blvd Office - San Mateo County, Summer

Table Name	Column Name	Default Value	New Value
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.014
tblProjectCharacteristics	CO2IntensityFactor	641.35	298.65
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003

2.0 Emissions Summary

Forbes Blvd Office - San Mateo County, Summer

2.2 Overall Operational
Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.9088	1.5000e-004	0.0164	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0353	0.0353	9.0000e-005		0.0376
Energy	0.0440	0.3998	0.3358	2.4000e-003		0.0304	0.0304		0.0304	0.0304		479.7454	479.7454	9.2000e-003	8.8000e-003	482.5963
Mobile	0.9166	2.2241	9.2611	0.0379	4.3130	0.0234	4.3364	1.1552	0.0217	1.1769		3,839.2294	3,839.2294	0.1300		3,842.4783
Total	2.8694	2.6241	9.6133	0.0403	4.3130	0.0538	4.3669	1.1552	0.0522	1.2073		4,319.0100	4,319.0100	0.1393	8.8000e-003	4,325.1121

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	1.9088	1.5000e-004	0.0164	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0353	0.0353	9.0000e-005		0.0376
Energy	0.0315	0.2861	0.2403	1.7200e-003		0.0217	0.0217		0.0217	0.0217		343.3418	343.3418	6.5800e-003	6.2900e-003	345.3821
Mobile	0.9166	2.2241	9.2611	0.0379	4.3130	0.0234	4.3364	1.1552	0.0217	1.1769		3,839.2294	3,839.2294	0.1300		3,842.4783
Total	2.8569	2.5104	9.5178	0.0396	4.3130	0.0452	4.3582	1.1552	0.0435	1.1987		4,182.6065	4,182.6065	0.1366	6.2900e-003	4,187.8980

Forbes Blvd Office - San Mateo 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	0.44	4.33	0.99	1.69	0.00	16.06	0.20	0.00	16.56	0.72	0.00	3.16	3.16	1.88	28.52	3.17

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2020	9/28/2020	5	20	
2	Site Preparation	Site Preparation	9/29/2020	10/5/2020	5	5	
3	Grading	Grading	10/6/2020	10/15/2020	5	8	
4	Building Construction	Building Construction	10/16/2020	9/2/2021	5	230	
5	Paving	Paving	9/3/2021	9/28/2021	5	18	
6	Architectural Coating	Architectural Coating	9/29/2021	10/22/2021	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 1.93

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 115,500; Non-Residential Outdoor: 38,500; Striped Parking Area: 5,057 (Architectural Coating – sqft)

OffRoad Equipment

Forbes Blvd Office - San Mateo County, Summer

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

Forbes Blvd Office - San Mateo County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	447.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	60.00	26.00	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	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.8340	0.0000	4.8340	0.7319	0.0000	0.7319			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	4.8340	1.6587	6.4927	0.7319	1.5419	2.2738		3,747.7049	3,747.7049	1.0580		3,774.1536

Forbes Blvd Office - San Mateo County, Summer

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1963	7.0387	2.9861	0.0183	0.3881	0.0222	0.4103	0.1062	0.0212	0.1274		2,067.1600	2,067.1600	0.2560		2,073.5605
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	0.0412	0.0244	0.3104	1.1500e-003	0.1232	7.4000e-004	0.1240	0.0327	6.8000e-004	0.0334		115.0678	115.0678	2.2200e-003		115.1234
Total	0.2375	7.0631	3.2965	0.0194	0.5113	0.0230	0.5342	0.1389	0.0219	0.1608		2,182.2278	2,182.2278	0.2582		2,188.6839

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					4.8340	0.0000	4.8340	0.7319	0.0000	0.7319			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	4.8340	1.6587	6.4927	0.7319	1.5419	2.2738	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536

Forbes Blvd Office - San Mateo County, Summer

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1963	7.0387	2.9861	0.0183	0.3881	0.0222	0.4103	0.1062	0.0212	0.1274		2,067.1600	2,067.1600	0.2560		2,073.5605
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	0.0412	0.0244	0.3104	1.1500e-003	0.1232	7.4000e-004	0.1240	0.0327	6.8000e-004	0.0334		115.0678	115.0678	2.2200e-003		115.1234
Total	0.2375	7.0631	3.2965	0.0194	0.5113	0.0230	0.5342	0.1389	0.0219	0.1608		2,182.2278	2,182.2278	0.2582		2,188.6839

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

Forbes Blvd Office - San Mateo County, Summer

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0495	0.0293	0.3725	1.3800e-003	0.1479	8.9000e-004	0.1488	0.0392	8.2000e-004	0.0400		138.0814	138.0814	2.6700e-003		138.1481
Total	0.0495	0.0293	0.3725	1.3800e-003	0.1479	8.9000e-004	0.1488	0.0392	8.2000e-004	0.0400		138.0814	138.0814	2.6700e-003		138.1481

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	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

Forbes Blvd Office - San Mateo County, Summer

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0495	0.0293	0.3725	1.3800e-003	0.1479	8.9000e-004	0.1488	0.0392	8.2000e-004	0.0400		138.0814	138.0814	2.6700e-003		138.1481
Total	0.0495	0.0293	0.3725	1.3800e-003	0.1479	8.9000e-004	0.1488	0.0392	8.2000e-004	0.0400		138.0814	138.0814	2.6700e-003		138.1481

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			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	6.5523	1.2734	7.8258	3.3675	1.1716	4.5390		2,872.4851	2,872.4851	0.9290		2,895.7106

Forbes Blvd Office - San Mateo 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	0.0000	0.0000	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	0.0412	0.0244	0.3104	1.1500e-003	0.1232	7.4000e-004	0.1240	0.0327	6.8000e-004	0.0334		115.0678	115.0678	2.2200e-003		115.1234
Total	0.0412	0.0244	0.3104	1.1500e-003	0.1232	7.4000e-004	0.1240	0.0327	6.8000e-004	0.0334		115.0678	115.0678	2.2200e-003		115.1234

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	6.5523	1.2734	7.8258	3.3675	1.1716	4.5390	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106

Forbes Blvd Office - San Mateo 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	0.0000	0.0000	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	0.0412	0.0244	0.3104	1.1500e-003	0.1232	7.4000e-004	0.1240	0.0327	6.8000e-004	0.0334		115.0678	115.0678	2.2200e-003		115.1234
Total	0.0412	0.0244	0.3104	1.1500e-003	0.1232	7.4000e-004	0.1240	0.0327	6.8000e-004	0.0334		115.0678	115.0678	2.2200e-003		115.1234

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		2,553.0631	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		2,553.0631	2,553.0631	0.6229		2,568.6345

Forbes Blvd Office - San Mateo 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	0.0987	2.9694	1.1512	6.9600e-003	0.1755	0.0149	0.1904	0.0505	0.0142	0.0647		765.0847	765.0847	0.0653		766.7171
Worker	0.1648	0.0978	1.2417	4.6100e-003	0.4929	2.9700e-003	0.4959	0.1307	2.7300e-003	0.1335		460.2713	460.2713	8.9000e-003		460.4938
Total	0.2636	3.0672	2.3928	0.0116	0.6684	0.0179	0.6862	0.1812	0.0170	0.1982		1,225.3560	1,225.3560	0.0742		1,227.2108

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

Forbes Blvd Office - San Mateo 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	0.0987	2.9694	1.1512	6.9600e-003	0.1755	0.0149	0.1904	0.0505	0.0142	0.0647		765.0847	765.0847	0.0653		766.7171
Worker	0.1648	0.0978	1.2417	4.6100e-003	0.4929	2.9700e-003	0.4959	0.1307	2.7300e-003	0.1335		460.2713	460.2713	8.9000e-003		460.4938
Total	0.2636	3.0672	2.3928	0.0116	0.6684	0.0179	0.6862	0.1812	0.0170	0.1982		1,225.3560	1,225.3560	0.0742		1,227.2108

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

Forbes Blvd Office - San Mateo 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	0.0811	2.6702	1.1155	6.8600e-003	0.1755	6.0800e-003	0.1816	0.0505	5.8100e-003	0.0563		755.5623	755.5623	0.0642		757.1672
Worker	0.1538	0.0877	1.1498	4.4500e-003	0.4929	2.8800e-003	0.4958	0.1307	2.6500e-003	0.1334		443.8623	443.8623	8.0000e-003		444.0623
Total	0.2349	2.7579	2.2652	0.0113	0.6684	8.9600e-003	0.6773	0.1812	8.4600e-003	0.1897		1,199.4245	1,199.4245	0.0722		1,201.2296

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

Forbes Blvd Office - San Mateo 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	0.0811	2.6702	1.1155	6.8600e-003	0.1755	6.0800e-003	0.1816	0.0505	5.8100e-003	0.0563		755.5623	755.5623	0.0642		757.1672
Worker	0.1538	0.0877	1.1498	4.4500e-003	0.4929	2.8800e-003	0.4958	0.1307	2.6500e-003	0.1334		443.8623	443.8623	8.0000e-003		444.0623
Total	0.2349	2.7579	2.2652	0.0113	0.6684	8.9600e-003	0.6773	0.1812	8.4600e-003	0.1897		1,199.4245	1,199.4245	0.0722		1,201.2296

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	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342		1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342		1,804.5523	1,804.5523	0.5670		1,818.7270

Forbes Blvd Office - San Mateo 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	0.0513	0.0292	0.3833	1.4800e-003	0.1643	9.6000e-004	0.1653	0.0436	8.8000e-004	0.0445		147.9541	147.9541	2.6700e-003		148.0208
Total	0.0513	0.0292	0.3833	1.4800e-003	0.1643	9.6000e-004	0.1653	0.0436	8.8000e-004	0.0445		147.9541	147.9541	2.6700e-003		148.0208

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	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342	0.0000	1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342	0.0000	1,804.5523	1,804.5523	0.5670		1,818.7270

Forbes Blvd Office - San Mateo 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	0.0513	0.0292	0.3833	1.4800e-003	0.1643	9.6000e-004	0.1653	0.0436	8.8000e-004	0.0445		147.9541	147.9541	2.6700e-003		148.0208
Total	0.0513	0.0292	0.3833	1.4800e-003	0.1643	9.6000e-004	0.1653	0.0436	8.8000e-004	0.0445		147.9541	147.9541	2.6700e-003		148.0208

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	46.5651					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	46.7840	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

Forbes Blvd Office - San Mateo 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	0.0308	0.0176	0.2300	8.9000e-004	0.0986	5.8000e-004	0.0992	0.0262	5.3000e-004	0.0267		88.7725	88.7725	1.6000e-003		88.8125
Total	0.0308	0.0176	0.2300	8.9000e-004	0.0986	5.8000e-004	0.0992	0.0262	5.3000e-004	0.0267		88.7725	88.7725	1.6000e-003		88.8125

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	46.5651					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	46.7840	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

Forbes Blvd Office - San Mateo 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	0.0308	0.0176	0.2300	8.9000e-004	0.0986	5.8000e-004	0.0992	0.0262	5.3000e-004	0.0267		88.7725	88.7725	1.6000e-003		88.8125
Total	0.0308	0.0176	0.2300	8.9000e-004	0.0986	5.8000e-004	0.0992	0.0262	5.3000e-004	0.0267		88.7725	88.7725	1.6000e-003		88.8125

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Forbes Blvd Office - San Mateo 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	0.9166	2.2241	9.2611	0.0379	4.3130	0.0234	4.3364	1.1552	0.0217	1.1769		3,839.2294	3,839.2294	0.1300		3,842.4783
Unmitigated	0.9166	2.2241	9.2611	0.0379	4.3130	0.0234	4.3364	1.1552	0.0217	1.1769		3,839.2294	3,839.2294	0.1300		3,842.4783

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	849.31	189.42	80.85	1,542,012	1,542,012
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	849.31	189.42	80.85	1,542,012	1,542,012

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
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Unenclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Forbes Blvd Office - San Mateo County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.448867	0.051210	0.277116	0.145918	0.016779	0.007633	0.027321	0.006813	0.004476	0.002855	0.009510	0.000605	0.000896
Unenclosed Parking with Elevator	0.448867	0.051210	0.277116	0.145918	0.016779	0.007633	0.027321	0.006813	0.004476	0.002855	0.009510	0.000605	0.000896

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0315	0.2861	0.2403	1.7200e-003		0.0217	0.0217		0.0217	0.0217		343.3418	343.3418	6.5800e-003	6.2900e-003	345.3821
NaturalGas Unmitigated	0.0440	0.3998	0.3358	2.4000e-003		0.0304	0.0304		0.0304	0.0304		479.7454	479.7454	9.2000e-003	8.8000e-003	482.5963

Forbes Blvd Office - San Mateo County, 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					
General Office Building	4077.84	0.0440	0.3998	0.3358	2.4000e-003		0.0304	0.0304		0.0304	0.0304		479.7454	479.7454	9.2000e-003	8.8000e-003	482.5963
Unenclosed 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
Total		0.0440	0.3998	0.3358	2.4000e-003		0.0304	0.0304		0.0304	0.0304		479.7454	479.7454	9.2000e-003	8.8000e-003	482.5963

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	2.91841	0.0315	0.2861	0.2403	1.7200e-003		0.0217	0.0217		0.0217	0.0217		343.3418	343.3418	6.5800e-003	6.2900e-003	345.3821
Unenclosed 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
Total		0.0315	0.2861	0.2403	1.7200e-003		0.0217	0.0217		0.0217	0.0217		343.3418	343.3418	6.5800e-003	6.2900e-003	345.3821

6.0 Area Detail

6.1 Mitigation Measures Area

Forbes Blvd Office - San Mateo 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	1.9088	1.5000e-004	0.0164	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0353	0.0353	9.0000e-005		0.0376
Unmitigated	1.9088	1.5000e-004	0.0164	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0353	0.0353	9.0000e-005		0.0376

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	0.2296					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.6777					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.5000e-003	1.5000e-004	0.0164	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0353	0.0353	9.0000e-005		0.0376
Total	1.9088	1.5000e-004	0.0164	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0353	0.0353	9.0000e-005		0.0376

Forbes Blvd Office - San Mateo County, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2296					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.6777					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.5000e-003	1.5000e-004	0.0164	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0353	0.0353	9.0000e-005		0.0376
Total	1.9088	1.5000e-004	0.0164	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0353	0.0353	9.0000e-005		0.0376

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Forbes Blvd Office - San Mateo County, Summer

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

Forbes Blvd Office - San Mateo County, Winter

**Forbes Blvd Office
San Mateo County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	77.00	1000sqft	1.77	77,000.00	0
Unenclosed Parking with Elevator	84.28	1000sqft	1.93	84,280.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	70
Climate Zone	5			Operational Year	2030
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	298.65	CH4 Intensity (lb/MWhr)	0.014	N2O Intensity (lb/MWhr)	0.003

1.3 User Entered Comments & Non-Default Data

Forbes Blvd Office - San Mateo County, Winter

Project Characteristics - reduced based on the percentage of renewables reported by PG&E and increase procurement from eligible renewable energy sources

Land Use -

Construction Phase - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Off-road Equipment - Per construction plans from applicant

Trips and VMT -

Demolition -

Grading - Project site size

Architectural Coating -

Vehicle Trips - Per project traffic analysis

Area Coating -

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation -

Energy Mitigation - Per current requirements

Water Mitigation - per 2016 standards

Waste Mitigation -

Fleet Mix -

Forbes Blvd Office - San Mateo County, Winter

Table Name	Column Name	Default Value	New Value
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.014
tblProjectCharacteristics	CO2IntensityFactor	641.35	298.65
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003

2.0 Emissions Summary

Forbes Blvd Office - San Mateo County, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.9088	1.5000e-004	0.0164	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0353	0.0353	9.0000e-005		0.0376
Energy	0.0440	0.3998	0.3358	2.4000e-003		0.0304	0.0304		0.0304	0.0304		479.7454	479.7454	9.2000e-003	8.8000e-003	482.5963
Mobile	0.8346	2.3805	9.5234	0.0361	4.3130	0.0234	4.3365	1.1552	0.0218	1.1769		3,660.1237	3,660.1237	0.1330		3,663.4476
Total	2.7873	2.7804	9.8756	0.0385	4.3130	0.0539	4.3669	1.1552	0.0522	1.2074		4,139.9044	4,139.9044	0.1422	8.8000e-003	4,146.0814

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	1.9088	1.5000e-004	0.0164	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0353	0.0353	9.0000e-005		0.0376
Energy	0.0315	0.2861	0.2403	1.7200e-003		0.0217	0.0217		0.0217	0.0217		343.3418	343.3418	6.5800e-003	6.2900e-003	345.3821
Mobile	0.8346	2.3805	9.5234	0.0361	4.3130	0.0234	4.3365	1.1552	0.0218	1.1769		3,660.1237	3,660.1237	0.1330		3,663.4476
Total	2.7748	2.6667	9.7801	0.0378	4.3130	0.0452	4.3583	1.1552	0.0436	1.1987		4,003.5009	4,003.5009	0.1396	6.2900e-003	4,008.8673

Forbes Blvd Office - San Mateo County, 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	0.45	4.09	0.97	1.77	0.00	16.04	0.20	0.00	16.55	0.72	0.00	3.29	3.29	1.84	28.52	3.31

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2020	9/28/2020	5	20	
2	Site Preparation	Site Preparation	9/29/2020	10/5/2020	5	5	
3	Grading	Grading	10/6/2020	10/15/2020	5	8	
4	Building Construction	Building Construction	10/16/2020	9/2/2021	5	230	
5	Paving	Paving	9/3/2021	9/28/2021	5	18	
6	Architectural Coating	Architectural Coating	9/29/2021	10/22/2021	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 1.93

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 115,500; Non-Residential Outdoor: 38,500; Striped Parking Area: 5,057 (Architectural Coating – sqft)

OffRoad Equipment

Forbes Blvd Office - San Mateo County, Winter

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

Forbes Blvd Office - San Mateo County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	447.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	60.00	26.00	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	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.8340	0.0000	4.8340	0.7319	0.0000	0.7319			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	4.8340	1.6587	6.4927	0.7319	1.5419	2.2738		3,747.7049	3,747.7049	1.0580		3,774.1536

Forbes Blvd Office - San Mateo County, Winter

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2003	7.2584	3.0493	0.0181	0.3881	0.0228	0.4108	0.1062	0.0218	0.1280		2,045.1951	2,045.1951	0.2580		2,051.6448
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	0.0459	0.0302	0.3006	1.0800e-003	0.1232	7.4000e-004	0.1240	0.0327	6.8000e-004	0.0334		107.9793	107.9793	2.1200e-003		108.0323
Total	0.2461	7.2886	3.3499	0.0191	0.5113	0.0235	0.5348	0.1389	0.0225	0.1613		2,153.1744	2,153.1744	0.2601		2,159.6772

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					4.8340	0.0000	4.8340	0.7319	0.0000	0.7319			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
Total	3.3121	33.2010	21.7532	0.0388	4.8340	1.6587	6.4927	0.7319	1.5419	2.2738	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536

Forbes Blvd Office - San Mateo County, Winter

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.2003	7.2584	3.0493	0.0181	0.3881	0.0228	0.4108	0.1062	0.0218	0.1280		2,045.1951	2,045.1951	0.2580		2,051.6448
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	0.0459	0.0302	0.3006	1.0800e-003	0.1232	7.4000e-004	0.1240	0.0327	6.8000e-004	0.0334		107.9793	107.9793	2.1200e-003		108.0323
Total	0.2461	7.2886	3.3499	0.0191	0.5113	0.0235	0.5348	0.1389	0.0225	0.1613		2,153.1744	2,153.1744	0.2601		2,159.6772

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523		3,685.1016	3,685.1016	1.1918		3,714.8975

Forbes Blvd Office - San Mateo County, Winter

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0550	0.0362	0.3607	1.3000e-003	0.1479	8.9000e-004	0.1488	0.0392	8.2000e-004	0.0400		129.5751	129.5751	2.5500e-003		129.6388
Total	0.0550	0.0362	0.3607	1.3000e-003	0.1479	8.9000e-004	0.1488	0.0392	8.2000e-004	0.0400		129.5751	129.5751	2.5500e-003		129.6388

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	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
Total	4.0765	42.4173	21.5136	0.0380	18.0663	2.1974	20.2637	9.9307	2.0216	11.9523	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975

Forbes Blvd Office - San Mateo County, Winter

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0550	0.0362	0.3607	1.3000e-003	0.1479	8.9000e-004	0.1488	0.0392	8.2000e-004	0.0400		129.5751	129.5751	2.5500e-003		129.6388
Total	0.0550	0.0362	0.3607	1.3000e-003	0.1479	8.9000e-004	0.1488	0.0392	8.2000e-004	0.0400		129.5751	129.5751	2.5500e-003		129.6388

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					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			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	6.5523	1.2734	7.8258	3.3675	1.1716	4.5390		2,872.4851	2,872.4851	0.9290		2,895.7106

Forbes Blvd Office - San Mateo County, Winter

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	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	0.0459	0.0302	0.3006	1.0800e-003	0.1232	7.4000e-004	0.1240	0.0327	6.8000e-004	0.0334		107.9793	107.9793	2.1200e-003		108.0323
Total	0.0459	0.0302	0.3006	1.0800e-003	0.1232	7.4000e-004	0.1240	0.0327	6.8000e-004	0.0334		107.9793	107.9793	2.1200e-003		108.0323

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	6.5523	1.2734	7.8258	3.3675	1.1716	4.5390	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106

Forbes Blvd Office - San Mateo County, Winter

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	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	0.0459	0.0302	0.3006	1.0800e-003	0.1232	7.4000e-004	0.1240	0.0327	6.8000e-004	0.0334		107.9793	107.9793	2.1200e-003		108.0323
Total	0.0459	0.0302	0.3006	1.0800e-003	0.1232	7.4000e-004	0.1240	0.0327	6.8000e-004	0.0334		107.9793	107.9793	2.1200e-003		108.0323

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		2,553.0631	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		2,553.0631	2,553.0631	0.6229		2,568.6345

Forbes Blvd Office - San Mateo County, Winter

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	0.1035	3.0166	1.2529	6.8500e-003	0.1755	0.0152	0.1907	0.0505	0.0146	0.0651		751.7385	751.7385	0.0668		753.4087
Worker	0.1835	0.1207	1.2023	4.3300e-003	0.4929	2.9700e-003	0.4959	0.1307	2.7300e-003	0.1335		431.9170	431.9170	8.4900e-003		432.1292
Total	0.2870	3.1372	2.4552	0.0112	0.6684	0.0182	0.6866	0.1812	0.0173	0.1985		1,183.6555	1,183.6555	0.0753		1,185.5380

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

Forbes Blvd Office - San Mateo County, Winter

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	0.1035	3.0166	1.2529	6.8500e-003	0.1755	0.0152	0.1907	0.0505	0.0146	0.0651		751.7385	751.7385	0.0668		753.4087
Worker	0.1835	0.1207	1.2023	4.3300e-003	0.4929	2.9700e-003	0.4959	0.1307	2.7300e-003	0.1335		431.9170	431.9170	8.4900e-003		432.1292
Total	0.2870	3.1372	2.4552	0.0112	0.6684	0.0182	0.6866	0.1812	0.0173	0.1985		1,183.6555	1,183.6555	0.0753		1,185.5380

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

Forbes Blvd Office - San Mateo County, Winter

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0855	2.7074	1.2119	6.7400e-003	0.1755	6.3800e-003	0.1819	0.0505	6.1000e-003	0.0566		742.4338	742.4338	0.0656		744.0731
Worker	0.1718	0.1083	1.1089	4.1800e-003	0.4929	2.8800e-003	0.4958	0.1307	2.6500e-003	0.1334		416.5551	416.5551	7.6100e-003		416.7454
Total	0.2573	2.8157	2.3208	0.0109	0.6684	9.2600e-003	0.6776	0.1812	8.7500e-003	0.1900		1,158.9889	1,158.9889	0.0732		1,160.8185

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

Forbes Blvd Office - San Mateo County, Winter

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0855	2.7074	1.2119	6.7400e-003	0.1755	6.3800e-003	0.1819	0.0505	6.1000e-003	0.0566		742.4338	742.4338	0.0656		744.0731
Worker	0.1718	0.1083	1.1089	4.1800e-003	0.4929	2.8800e-003	0.4958	0.1307	2.6500e-003	0.1334		416.5551	416.5551	7.6100e-003		416.7454
Total	0.2573	2.8157	2.3208	0.0109	0.6684	9.2600e-003	0.6776	0.1812	8.7500e-003	0.1900		1,158.9889	1,158.9889	0.0732		1,160.8185

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	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342		1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342		1,804.5523	1,804.5523	0.5670		1,818.7270

Forbes Blvd Office - San Mateo County, Winter

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	0.0573	0.0361	0.3696	1.3900e-003	0.1643	9.6000e-004	0.1653	0.0436	8.8000e-004	0.0445		138.8517	138.8517	2.5400e-003		138.9151
Total	0.0573	0.0361	0.3696	1.3900e-003	0.1643	9.6000e-004	0.1653	0.0436	8.8000e-004	0.0445		138.8517	138.8517	2.5400e-003		138.9151

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	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342	0.0000	1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342	0.0000	1,804.5523	1,804.5523	0.5670		1,818.7270

Forbes Blvd Office - San Mateo County, Winter

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	0.0573	0.0361	0.3696	1.3900e-003	0.1643	9.6000e-004	0.1653	0.0436	8.8000e-004	0.0445		138.8517	138.8517	2.5400e-003			138.9151
Total	0.0573	0.0361	0.3696	1.3900e-003	0.1643	9.6000e-004	0.1653	0.0436	8.8000e-004	0.0445		138.8517	138.8517	2.5400e-003			138.9151

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	46.5651					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	46.7840	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193			281.9309

Forbes Blvd Office - San Mateo County, Winter

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	0.0344	0.0217	0.2218	8.4000e-004	0.0986	5.8000e-004	0.0992	0.0262	5.3000e-004	0.0267		83.3110	83.3110	1.5200e-003		83.3491
Total	0.0344	0.0217	0.2218	8.4000e-004	0.0986	5.8000e-004	0.0992	0.0262	5.3000e-004	0.0267		83.3110	83.3110	1.5200e-003		83.3491

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	46.5651					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	46.7840	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

Forbes Blvd Office - San Mateo County, Winter

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	0.0344	0.0217	0.2218	8.4000e-004	0.0986	5.8000e-004	0.0992	0.0262	5.3000e-004	0.0267		83.3110	83.3110	1.5200e-003		83.3491
Total	0.0344	0.0217	0.2218	8.4000e-004	0.0986	5.8000e-004	0.0992	0.0262	5.3000e-004	0.0267		83.3110	83.3110	1.5200e-003		83.3491

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Forbes Blvd Office - San Mateo County, 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	0.8346	2.3805	9.5234	0.0361	4.3130	0.0234	4.3365	1.1552	0.0218	1.1769		3,660.1237	3,660.1237	0.1330		3,663.4476
Unmitigated	0.8346	2.3805	9.5234	0.0361	4.3130	0.0234	4.3365	1.1552	0.0218	1.1769		3,660.1237	3,660.1237	0.1330		3,663.4476

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	849.31	189.42	80.85	1,542,012	1,542,012
Unenclosed Parking with Elevator	0.00	0.00	0.00		
Total	849.31	189.42	80.85	1,542,012	1,542,012

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
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Unenclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Forbes Blvd Office - San Mateo County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.448867	0.051210	0.277116	0.145918	0.016779	0.007633	0.027321	0.006813	0.004476	0.002855	0.009510	0.000605	0.000896
Unenclosed Parking with Elevator	0.448867	0.051210	0.277116	0.145918	0.016779	0.007633	0.027321	0.006813	0.004476	0.002855	0.009510	0.000605	0.000896

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0315	0.2861	0.2403	1.7200e-003		0.0217	0.0217		0.0217	0.0217		343.3418	343.3418	6.5800e-003	6.2900e-003	345.3821
NaturalGas Unmitigated	0.0440	0.3998	0.3358	2.4000e-003		0.0304	0.0304		0.0304	0.0304		479.7454	479.7454	9.2000e-003	8.8000e-003	482.5963

Forbes Blvd Office - San Mateo County, 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					
General Office Building	4077.84	0.0440	0.3998	0.3358	2.4000e-003		0.0304	0.0304		0.0304	0.0304		479.7454	479.7454	9.2000e-003	8.8000e-003	482.5963
Unenclosed 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
Total		0.0440	0.3998	0.3358	2.4000e-003		0.0304	0.0304		0.0304	0.0304		479.7454	479.7454	9.2000e-003	8.8000e-003	482.5963

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	2.91841	0.0315	0.2861	0.2403	1.7200e-003		0.0217	0.0217		0.0217	0.0217		343.3418	343.3418	6.5800e-003	6.2900e-003	345.3821
Unenclosed 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
Total		0.0315	0.2861	0.2403	1.7200e-003		0.0217	0.0217		0.0217	0.0217		343.3418	343.3418	6.5800e-003	6.2900e-003	345.3821

6.0 Area Detail

6.1 Mitigation Measures Area

Forbes Blvd Office - San Mateo County, 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	1.9088	1.5000e-004	0.0164	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0353	0.0353	9.0000e-005		0.0376
Unmitigated	1.9088	1.5000e-004	0.0164	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0353	0.0353	9.0000e-005		0.0376

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	0.2296					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.6777					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.5000e-003	1.5000e-004	0.0164	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0353	0.0353	9.0000e-005		0.0376
Total	1.9088	1.5000e-004	0.0164	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0353	0.0353	9.0000e-005		0.0376

Forbes Blvd Office - San Mateo County, 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	0.2296					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.6777					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.5000e-003	1.5000e-004	0.0164	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0353	0.0353	9.0000e-005		0.0376
Total	1.9088	1.5000e-004	0.0164	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005		0.0353	0.0353	9.0000e-005		0.0376

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Forbes Blvd Office - San Mateo County, Winter

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

499 Forbes R&D Office

Last Updated: DATE

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			
Rubber Tired Dozer	1	8	247	0.40	Demo	835.59
Concrete Saws	1	8	81	0.73	Demo	555.96
Tractors/Loaders/Backhoes	3	8	97	0.37	Demo	1,012.34
Excavators	2	6	158	0.38	Demo	761.68
Graders	1	8	187	0.41	Site Prep	162.11
Excavators	1	6	158	0.38	Site Prep	95.21
Tractors/Loaders/Backhoes	2	7	97	0.37	Site Prep	147.63
Scrapers	1	8	367	0.48	Site Prep	372.47
Graders	1	8	187	0.41	Grading	259.37
Excavators	3	6	158	0.38	Grading	457.01
Rubber Tired Dozer	1	8	247	0.40	Grading	334.24
Tractors/Loaders/Backhoes	2	7	97	0.37	Grading	236.21
Cranes	2	8	231	0.29	Building	13,030.97
Forklifts	1	7	89	0.20	Building	1,684.07
Generator Sets	1	8	84	0.74	Building	6,721.12
Tractors/Loaders/Backhoes	1	6	97	0.37	Building	2,910.49
Welders	6	8	46	0.45	Building	13,429.27
Air Compressors	4	6	78	0.48	Building	12,144.73
Air Compressors	1	6	78	0.48	Arch Coating	237.61
Forklifts	1	6	89	0.20	Arch Coating	112.97
Pavers	1	8	130	0.42	Paving	415.60
Paving Equipment	1	8	132	0.36	Paving	361.71
Tractors/Loaders/Backhoes	2	8	97	0.37	Paving	607.41
Rollers	1	8	80	0.38	Paving	257.25
Cement and Mixers	1	8	9	0.56	Paving	42.65
Total Fuel Used						57,185.65 (Gallons)

Construction Phase	Days of Operation
Demolition Phase	20
Site Preparation Phase	5
Grading Phase	8
Building Construction Phase	230
Architectural Coating Phase	18
Paving	18
Total Days	299

WORKER TRIPS

Constuction Phase	MPG [2]	Trips	Trip Length (miles)	Fuel Used (gallons)
Demolition	24.0	18	10.8	162.00
Site Prep Phase	24.0	13	10.8	29.25
Grading Phase	24.0	18	10.8	64.80
Building Phase	24.0	77	10.8	7969.50
Paving Phase	24.0	15	10.8	121.50
Architectural Coating Phase	24.0	15	10.8	121.50
Total				8,468.55

HAULING AND VENDOR TRIPS

Trip Class	MPG [2]	Trips	Trip Length (miles)	Fuel Used (gallons)
HAULING TRIPS				
Demolition	7.4	447	10.8	652.38
Site Prep Phase	7.4	0	10.8	0.00
Grading Phase	7.4	0	10.8	0.00
Building Phase	7.4	0	10.8	0.00
Paving Phase	7.4	0	10.8	0.00
Architectural Coating Phase	7.4	0	10.8	0.00
Total				652.38
VENDOR TRIPS				
Demolition	7.4	0	7.3	0.00
Site Prep Phase	7.4	0	7.3	0.00
Grading Phase	7.4	0	7.3	0.00
Building Phase	7.4	26	7.3	5899.19
Paving Phase	7.4	0	7.3	0.00
Architectural Coating Phase	7.4	0	7.3	0.00
Total				8.00

Total Gasoline Consumption (gallons)	8,468.55
Total Diesel Consumption (gallons)	57,846.03

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. 2018. *National Transportation Statistics 2018* . Available at: <https://www.bts.gov/sites/bts.dot.gov/files/docs/browse-statistical-products-and-data/national-transportation-statistics/223001/ntsntire2018q4.pdf>.

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Last Updated:

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

Annual VMT	OR	Daily Vehicle Trips
Annual VMT: 1,542,012		Daily Vehicle Trips: Average Trip Distance:

Fleet Class	Fleet Mix	Fuel Economy (MPG) [1]	
Light Duty Auto (LDA)	0.448867	LDA	39.39
Light Duty Truck 1 (LDT1)	0.051210	LDT1	35.45
Light Duty Truck 2 (LDT2)	0.277116	LDT2	30.97
Medium Duty Vehicle (MDV)	0.145918	MDV	23.17
Light Heavy Duty 1 (LHD1)	0.016779	LHD1	18.95
Light Heavy Duty 2 (LHD2)	0.007633	LHD2	17.01
Medium Heavy Duty (MHD)	0.027321	T6 Public	8.34
Heavy Heavy Duty (HHD)	0.006813	T7 Public	5.19
Other Bus (OBUS)	0.004476	OBUS	6.79
Urban Bus (UBUS)	0.002855	UBUS	4.71
School Bus (SBUS)	0.000605	SBUS	7.41
Motorhome (MH)	0.000896	MH	9.98
Motorcycle (MCY)	0.009510	MCY	37.52

Fleet Mix

Vehicle Type	Percent	Fuel Type	Annual VMT: VMT	Vehicle Trips: VMT	Fuel Consumption (Gallons)
Light Duty Auto (LDA)		Gasoline	692,158.30		17571.93389
Light Duty Truck 1 (LDT1)		Gasoline	78,966.43		2227.236137
Light Duty Truck 2 (LDT2)		Gasoline	427,316.20		13798.60157
Medium Duty Vehicle (MDV)		Gasoline	225,007.31		9713.194105
Light Heavy Duty 1 (LHD1)		Diesel	25,873.42		1365.184088
Light Heavy Duty 2 (LHD2)		Diesel	11,770.18		691.9933751
Medium Heavy Duty (MHD)		Diesel	42,129.31		5051.890935
Heavy Heavy Duty (HHD)		Diesel	10,505.73		2026.080485
Other Bus (OBUS)		Diesel	6,902.05		1016.282755
Urban Bus (UBUS)		Diesel	4,402.44		934.5324922
School Bus (SBUS)		Diesel	932.92		125.8278175
Motorhome (MH)		Diesel	1,381.64		138.4749021
Motorcycle (MCY)		Gasoline	14,664.53		390.8435004

Total Gasoline Consumption (gallons)	43,701.81
Total Diesel Consumption (gallons)	11,350.27

Sources:

[1] California Air Resources Board (CARB). 2015. "EMFAC2014 Web Database." December 14, 2015. <https://www.arb.ca.gov/emfac/2014/> (accessed March 15, 2019).

N2O Operational GHG Emission Mobile Calculations

Project Code & Title: 499 Forbes Reduced Office

Vehicle Population Breakdown*	
658683	Gasoline vehicles
18378	Diesel vehicles
97.3%	Gasoline vehicle %
2.7%	Diesel vehicle %

VMT per Vehicle Type	
1542012	Project VMT (CalEEMod output)
1500156	Gasoline vehicle VMT
41856	Diesel vehicle VMT

Gasoline Vehicles	
97.3%	Gasoline vehicle %
0.37	Tons per year mobile NOX emissions (annual output in CalEEMod)
0.36	Gasoline vehicle tons per year NOX emissions
4.16%	Percentage to convert NOX emissions to N2O **
0.0150	Tons per year N2O emissions for gasoline vehicles
0.0136	Metric tons per year N2O emissions for gasoline vehicles

Diesel Vehicles	
0.3316	grams N2O per gallon of fuel for diesel vehicles**
26.46	Diesel average miles per gallon*
0.01253	grams per mile N2O for diesel vehicles
524.5	grams per year N2O for diesel vehicles
0.0005245	Metric tons per year N2O emissions for diesel vehicles

CO2E Emissions from N2O	
0.0141	Metric tons per year from gasoline + diesel vehicles
265	GWP of N2O***
3.7	CO2E emissions per year from N2O emissions from gasoline + diesel vehicles

Sources
<p>*Vehicle population source: EMFAC2014 (v1.0.7) Emissions Inventory Region Type: Air District Region: SCAQMD Calendar Year: 2022 Season: Annual Vehicle Classification: EMFAC2011 Categories</p>
<p>**Methodology source: EMFAC2011 Frequently Asked Questions https://www.arb.ca.gov/msei/emfac2011-faq.htm</p>
<p>***GWP source: Intergovernmental Panel on Climate Change (IPCC). 2014. AR5 Climate Change 2014 Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change.</p>