

**Appendix A:
Air Quality/Greenhouse Gas Emissions Supporting Information**

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Air Quality and Greenhouse Gas CalEEMod Results and Supporting Information

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Storage Pro Phase 2 Project Construction Assumptions

Construction Schedule

Phase Name	Start Date	End Date	Working Days per Week	Total Working Days
Demolition	4/1/2019	4/26/2019	5	20
Site Preparation	4/27/2019	5/1/2019	5	3
Grading	5/2/2019	5/9/2019	5	6
Building Construction	5/10/2019	3/12/2020	5	220
Paving	3/13/2020	3/26/2020	5	10
Architectural Coating	3/27/2020	4/9/2020	5	10

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8	81	0.73
Demolition	Rubber Tired Dozers	1	8	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8	97	0.37
Site Preparation	Graders	1	8	187	0.41
Site Preparation	Scrapers	1	8	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7	97	0.37
Grading	Graders	1	8	187	0.41
Grading	Rubber Tired Dozers	1	8	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7	97	0.37
Building Construction	Cranes	1	8	231	0.29
Building Construction	Forklifts	2	7	89	0.20
Building Construction	Generator Sets	1	8	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6	97	0.37
Building Construction	Welders	3	8	46	0.45
Paving	Cement and Mortar Mixers	1	8	9	0.56
Paving	Pavers	1	8	130	0.42
Paving	Paving Equipment	1	8	132	0.36
Paving	Rollers	2	8	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8	97	0.37
Architectural Coating	Air Compressors	1	6	78	0.48

Construction Trips

Phase Name	Worker Trips per Day	Vendor Trips per Day	Total Hauling Trips	Worker Trip Length	Vendor Trip Length	Hauling Trip Length
Demolition	13	0	586	10.8	7.3	20
Site Preparation	8	0	0	10.8	7.3	20
Grading	10	0	0	10.8	7.3	20
Building Construction	114	39	0	10.8	7.3	20
Paving	15	0	0	10.8	7.3	20
Architectural Coating	23	0	0	10.8	7.3	20

Storage Pro Phase 2 - Sonoma-San Francisco County, Annual

**Storage Pro Phase 2
Sonoma-San Francisco County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	149.00	1000sqft	0.83	148,225.00	0
Other Non-Asphalt Surfaces	0.17	Acre	0.17	7,405.20	0
Other Non-Asphalt Surfaces	0.83	Acre	0.83	36,154.80	0
Parking Lot	60.00	Space	0.54	24,000.00	0
Parking Lot	9.00	Space	0.08	3,600.00	0
Apartments Mid Rise	30.00	Dwelling Unit	0.21	30,000.00	86

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	75
Climate Zone	4	Operational Year	2021		
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	491.65	CH4 Intensity (lb/MW hr)	0.022	N2O Intensity (lb/MW hr)	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Storage Pro Phase 2

Energy intensities adjusted based on the Renewable Portfolio Standard

Land Use - Based on site plan and project description

Demolition - Demolition of existing buildings and surface parking (approximately 5,926 tons of debris)

Vehicle Trips - Trip rates consistent with the Focused Traffic Study for the StoragePRO Phase II Project (W-Trans 2018)

Woodstoves - No woodburning

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures

Water Mitigation - Green Building Code

Waste Mitigation - 75 percent statewide diversion/recycling mandate (11% reduction)

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	5.10	0.00
tblLandUse	LandUseSquareFeet	149,000.00	148,225.00
tblLandUse	LotAcreage	3.42	0.83
tblLandUse	LotAcreage	0.79	0.21
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	641.35	491.65
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblVehicleTrips	ST_TR	6.39	8.14
tblVehicleTrips	ST_TR	1.68	1.95
tblVehicleTrips	SU_TR	5.86	6.28
tblVehicleTrips	SU_TR	1.68	1.89
tblVehicleTrips	WD_TR	6.65	7.32
tblVehicleTrips	WD_TR	1.68	1.51
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.3164	2.4826	1.9922	4.3600e-003	0.1881	0.1134	0.3015	0.0478	0.1082	0.1560	0.0000	386.7229	386.7229	0.0549	0.0000	388.0963
2020	1.0852	0.6523	0.5961	1.2800e-003	0.0313	0.0293	0.0607	8.4900e-003	0.0280	0.0365	0.0000	111.9257	111.9257	0.0160	0.0000	112.3244
Maximum	1.0852	2.4826	1.9922	4.3600e-003	0.1881	0.1134	0.3015	0.0478	0.1082	0.1560	0.0000	386.7229	386.7229	0.0549	0.0000	388.0963

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.3164	2.4826	1.9922	4.3600e-003	0.1411	0.1134	0.2545	0.0368	0.1082	0.1450	0.0000	386.7227	386.7227	0.0549	0.0000	388.0961
2020	1.0852	0.6523	0.5961	1.2800e-003	0.0313	0.0293	0.0607	8.4900e-003	0.0280	0.0365	0.0000	111.9256	111.9256	0.0160	0.0000	112.3243
Maximum	1.0852	2.4826	1.9922	4.3600e-003	0.1411	0.1134	0.2545	0.0368	0.1082	0.1450	0.0000	386.7227	386.7227	0.0549	0.0000	388.0961

	ROG	NOx	CO	SO2	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	21.42	0.00	12.98	19.51	0.00	5.70	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	4-1-2019	6-30-2019	0.9502	0.9502
2	7-1-2019	9-30-2019	0.9124	0.9124
3	10-1-2019	12-31-2019	0.9198	0.9198
4	1-1-2020	3-31-2020	1.0841	1.0841
5	4-1-2020	6-30-2020	0.6489	0.6489
		Highest	1.0841	1.0841

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	0.8076	3.0800e-003	0.2255	2.0000e-005		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	0.9296	0.9296	3.7000e-004	1.0000e-005	0.9420
Energy	4.1700e-003	0.0372	0.0263	2.3000e-004		2.8800e-003	2.8800e-003		2.8800e-003	2.8800e-003	0.0000	187.7380	187.7380	7.3400e-003	2.2500e-003	188.5910
Mobile	0.1619	0.8318	1.8847	5.6800e-003	0.4501	5.8900e-003	0.4560	0.1211	5.5400e-003	0.1267	0.0000	521.5118	521.5118	0.0227	0.0000	522.0789
Waste						0.0000	0.0000		0.0000	0.0000	31.2322	0.0000	31.2322	1.8458	0.0000	77.3764
Water						0.0000	0.0000		0.0000	0.0000	11.5515	44.8988	56.4503	1.1885	0.0285	94.6462
Total	0.9737	0.8720	2.1365	5.9300e-003	0.4501	0.0101	0.4601	0.1211	9.7000e-003	0.1308	42.7837	755.0782	797.8618	3.0646	0.0307	883.6345

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	0.8076	3.0800e-003	0.2255	2.0000e-005		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	0.9296	0.9296	3.7000e-004	1.0000e-005	0.9420
Energy	4.1700e-003	0.0372	0.0263	2.3000e-004		2.8800e-003	2.8800e-003		2.8800e-003	2.8800e-003	0.0000	187.7380	187.7380	7.3400e-003	2.2500e-003	188.5910
Mobile	0.1619	0.8318	1.8847	5.6800e-003	0.4501	5.8900e-003	0.4560	0.1211	5.5400e-003	0.1267	0.0000	521.5118	521.5118	0.0227	0.0000	522.0789
Waste						0.0000	0.0000		0.0000	0.0000	27.7967	0.0000	27.7967	1.6427	0.0000	68.8650
Water						0.0000	0.0000		0.0000	0.0000	9.2412	35.9191	45.1602	0.9508	0.0228	75.7169
Total	0.9737	0.8720	2.1365	5.9300e-003	0.4501	0.0101	0.4601	0.1211	9.7000e-003	0.1308	37.0378	746.0984	783.1362	2.6239	0.0250	856.1938

	ROG	NOx	CO	SO2	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	13.43	1.19	1.85	14.38	18.52	3.11

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	4/1/2019	4/26/2019	5	20	
2	Site Preparation	Site Preparation	4/27/2019	5/1/2019	5	3	
3	Grading	Grading	5/2/2019	5/9/2019	5	6	
4	Building Construction	Building Construction	5/10/2019	3/12/2020	5	220	
5	Paving	Paving	3/13/2020	3/26/2020	5	10	
6	Architectural Coating	Architectural Coating	3/27/2020	4/9/2020	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 1.62

Residential Indoor: 60,750; Residential Outdoor: 20,250; Non-Residential Indoor: 222,338; Non-Residential Outdoor: 74,113; Striped

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
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	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	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	3	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	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	586.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	114.00	39.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0634	0.0000	0.0634	9.6000e-003	0.0000	9.6000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0230	0.2268	0.1489	2.4000e-004		0.0129	0.0129		0.0120	0.0120	0.0000	21.4161	21.4161	5.4500e-003	0.0000	21.5524
Total	0.0230	0.2268	0.1489	2.4000e-004	0.0634	0.0129	0.0763	9.6000e-003	0.0120	0.0216	0.0000	21.4161	21.4161	5.4500e-003	0.0000	21.5524

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	2.7400e-003	0.0947	0.0193	2.3000e-004	4.8600e-003	4.7000e-004	5.3300e-003	1.3300e-003	4.5000e-004	1.7800e-003	0.0000	22.8008	22.8008	1.4500e-003	0.0000	22.8370
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8000e-004	5.1000e-004	5.0600e-003	1.0000e-005	1.0200e-003	1.0000e-005	1.0300e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	0.9698	0.9698	4.0000e-005	0.0000	0.9708
Total	3.4200e-003	0.0952	0.0244	2.4000e-004	5.8800e-003	4.8000e-004	6.3600e-003	1.6000e-003	4.6000e-004	2.0600e-003	0.0000	23.7706	23.7706	1.4900e-003	0.0000	23.8078

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					0.0285	0.0000	0.0285	4.3200e-003	0.0000	4.3200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0230	0.2268	0.1489	2.4000e-004		0.0129	0.0129		0.0120	0.0120	0.0000	21.4161	21.4161	5.4500e-003	0.0000	21.5524
Total	0.0230	0.2268	0.1489	2.4000e-004	0.0285	0.0129	0.0414	4.3200e-003	0.0120	0.0163	0.0000	21.4161	21.4161	5.4500e-003	0.0000	21.5524

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	2.7400e-003	0.0947	0.0193	2.3000e-004	4.8600e-003	4.7000e-004	5.3300e-003	1.3300e-003	4.5000e-004	1.7800e-003	0.0000	22.8008	22.8008	1.4500e-003	0.0000	22.8370
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.8000e-004	5.1000e-004	5.0600e-003	1.0000e-005	1.0200e-003	1.0000e-005	1.0300e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	0.9698	0.9698	4.0000e-005	0.0000	0.9708
Total	3.4200e-003	0.0952	0.0244	2.4000e-004	5.8800e-003	4.8000e-004	6.3600e-003	1.6000e-003	4.6000e-004	2.0600e-003	0.0000	23.7706	23.7706	1.4900e-003	0.0000	23.8078

3.3 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6300e-003	0.0323	0.0179	4.0000e-005		1.2800e-003	1.2800e-003		1.1800e-003	1.1800e-003	0.0000	3.3020	3.3020	1.0400e-003	0.0000	3.3281
Total	2.6300e-003	0.0323	0.0179	4.0000e-005	2.3900e-003	1.2800e-003	3.6700e-003	2.6000e-004	1.1800e-003	1.4400e-003	0.0000	3.3020	3.3020	1.0400e-003	0.0000	3.3281

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	5.0000e-005	4.7000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0895	0.0895	0.0000	0.0000	0.0896
Total	6.0000e-005	5.0000e-005	4.7000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0895	0.0895	0.0000	0.0000	0.0896

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0700e-003	0.0000	1.0700e-003	1.2000e-004	0.0000	1.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6300e-003	0.0323	0.0179	4.0000e-005		1.2800e-003	1.2800e-003		1.1800e-003	1.1800e-003	0.0000	3.3020	3.3020	1.0400e-003	0.0000	3.3281
Total	2.6300e-003	0.0323	0.0179	4.0000e-005	1.0700e-003	1.2800e-003	2.3500e-003	1.2000e-004	1.1800e-003	1.3000e-003	0.0000	3.3020	3.3020	1.0400e-003	0.0000	3.3281

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	5.0000e-005	4.7000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0895	0.0895	0.0000	0.0000	0.0896
Total	6.0000e-005	5.0000e-005	4.7000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0895	0.0895	0.0000	0.0000	0.0896

3.4 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0197	0.0000	0.0197	0.0101	0.0000	0.0101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0900e-003	0.0682	0.0305	6.0000e-005		3.2200e-003	3.2200e-003		2.9600e-003	2.9600e-003	0.0000	5.5554	5.5554	1.7600e-003	0.0000	5.5993
Total	6.0900e-003	0.0682	0.0305	6.0000e-005	0.0197	3.2200e-003	0.0229	0.0101	2.9600e-003	0.0131	0.0000	5.5554	5.5554	1.7600e-003	0.0000	5.5993

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	1.2000e-004	1.1700e-003	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2238	0.2238	1.0000e-005	0.0000	0.2240
Total	1.6000e-004	1.2000e-004	1.1700e-003	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2238	0.2238	1.0000e-005	0.0000	0.2240

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.8500e-003	0.0000	8.8500e-003	4.5500e-003	0.0000	4.5500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0900e-003	0.0682	0.0305	6.0000e-005		3.2200e-003	3.2200e-003		2.9600e-003	2.9600e-003	0.0000	5.5554	5.5554	1.7600e-003	0.0000	5.5993
Total	6.0900e-003	0.0682	0.0305	6.0000e-005	8.8500e-003	3.2200e-003	0.0121	4.5500e-003	2.9600e-003	7.5100e-003	0.0000	5.5554	5.5554	1.7600e-003	0.0000	5.5993

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	1.2000e-004	1.1700e-003	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2238	0.2238	1.0000e-005	0.0000	0.2240
Total	1.6000e-004	1.2000e-004	1.1700e-003	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2238	0.2238	1.0000e-005	0.0000	0.2240

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2149	1.5885	1.2814	2.1000e-003		0.0916	0.0916		0.0878	0.0878	0.0000	176.1936	176.1936	0.0367	0.0000	177.1100
Total	0.2149	1.5885	1.2814	2.1000e-003		0.0916	0.0916		0.0878	0.0878	0.0000	176.1936	176.1936	0.0367	0.0000	177.1100

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	0.0165	0.4341	0.1150	8.8000e-004	0.0212	3.3800e-003	0.0246	6.1400e-003	3.2300e-003	9.3700e-003	0.0000	84.7368	84.7368	5.6300e-003	0.0000	84.8775
Worker	0.0497	0.0375	0.3726	7.9000e-004	0.0752	6.4000e-004	0.0758	0.0200	5.9000e-004	0.0206	0.0000	71.4351	71.4351	2.9000e-003	0.0000	71.5076
Total	0.0662	0.4715	0.4876	1.6700e-003	0.0964	4.0200e-003	0.1004	0.0261	3.8200e-003	0.0300	0.0000	156.1719	156.1719	8.5300e-003	0.0000	156.3851

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	0.2149	1.5885	1.2814	2.1000e-003		0.0916	0.0916		0.0878	0.0878	0.0000	176.1934	176.1934	0.0367	0.0000	177.1098
Total	0.2149	1.5885	1.2814	2.1000e-003		0.0916	0.0916		0.0878	0.0878	0.0000	176.1934	176.1934	0.0367	0.0000	177.1098

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	0.0165	0.4341	0.1150	8.8000e-004	0.0212	3.3800e-003	0.0246	6.1400e-003	3.2300e-003	9.3700e-003	0.0000	84.7368	84.7368	5.6300e-003	0.0000	84.8775
Worker	0.0497	0.0375	0.3726	7.9000e-004	0.0752	6.4000e-004	0.0758	0.0200	5.9000e-004	0.0206	0.0000	71.4351	71.4351	2.9000e-003	0.0000	71.5076
Total	0.0662	0.4715	0.4876	1.6700e-003	0.0964	4.0200e-003	0.1004	0.0261	3.8200e-003	0.0300	0.0000	156.1719	156.1719	8.5300e-003	0.0000	156.3851

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	0.0595	0.4533	0.3873	6.5000e-004		0.0247	0.0247		0.0236	0.0236	0.0000	53.9875	53.9875	0.0110	0.0000	54.2615
Total	0.0595	0.4533	0.3873	6.5000e-004		0.0247	0.0247		0.0236	0.0236	0.0000	53.9875	53.9875	0.0110	0.0000	54.2615

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9900e-003	0.1217	0.0307	2.7000e-004	6.5700e-003	6.5000e-004	7.2200e-003	1.9000e-003	6.2000e-004	2.5200e-003	0.0000	26.1064	26.1064	1.6000e-003	0.0000	26.1464
Worker	0.0141	0.0103	0.1032	2.4000e-004	0.0233	1.9000e-004	0.0235	6.1900e-003	1.7000e-004	6.3700e-003	0.0000	21.4286	21.4286	7.9000e-004	0.0000	21.4483
Total	0.0181	0.1320	0.1340	5.1000e-004	0.0298	8.4000e-004	0.0307	8.0900e-003	7.9000e-004	8.8900e-003	0.0000	47.5350	47.5350	2.3900e-003	0.0000	47.5947

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	0.0595	0.4533	0.3873	6.5000e-004		0.0247	0.0247		0.0236	0.0236	0.0000	53.9875	53.9875	0.0110	0.0000	54.2614
Total	0.0595	0.4533	0.3873	6.5000e-004		0.0247	0.0247		0.0236	0.0236	0.0000	53.9875	53.9875	0.0110	0.0000	54.2614

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.9900e-003	0.1217	0.0307	2.7000e-004	6.5700e-003	6.5000e-004	7.2200e-003	1.9000e-003	6.2000e-004	2.5200e-003	0.0000	26.1064	26.1064	1.6000e-003	0.0000	26.1464
Worker	0.0141	0.0103	0.1032	2.4000e-004	0.0233	1.9000e-004	0.0235	6.1900e-003	1.7000e-004	6.3700e-003	0.0000	21.4286	21.4286	7.9000e-004	0.0000	21.4483
Total	0.0181	0.1320	0.1340	5.1000e-004	0.0298	8.4000e-004	0.0307	8.0900e-003	7.9000e-004	8.8900e-003	0.0000	47.5350	47.5350	2.3900e-003	0.0000	47.5947

3.6 Paving - 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	5.7700e-003	0.0579	0.0590	9.0000e-005		3.2800e-003	3.2800e-003		3.0300e-003	3.0300e-003	0.0000	7.7529	7.7529	2.4600e-003	0.0000	7.8143
Paving	8.1000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.5800e-003	0.0579	0.0590	9.0000e-005		3.2800e-003	3.2800e-003		3.0300e-003	3.0300e-003	0.0000	7.7529	7.7529	2.4600e-003	0.0000	7.8143

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	3.6000e-004	2.6000e-004	2.6100e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5422	0.5422	2.0000e-005	0.0000	0.5427
Total	3.6000e-004	2.6000e-004	2.6100e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5422	0.5422	2.0000e-005	0.0000	0.5427

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	5.7700e-003	0.0579	0.0590	9.0000e-005		3.2800e-003	3.2800e-003		3.0300e-003	3.0300e-003	0.0000	7.7529	7.7529	2.4600e-003	0.0000	7.8143
Paving	8.1000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	6.5800e-003	0.0579	0.0590	9.0000e-005		3.2800e-003	3.2800e-003		3.0300e-003	3.0300e-003	0.0000	7.7529	7.7529	2.4600e-003	0.0000	7.8143

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	3.6000e-004	2.6000e-004	2.6100e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5422	0.5422	2.0000e-005	0.0000	0.5427
Total	3.6000e-004	2.6000e-004	2.6100e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5422	0.5422	2.0000e-005	0.0000	0.5427

3.7 Architectural Coating - 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					
Archit. Coating	0.9989					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2100e-003	8.4200e-003	9.1600e-003	1.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	1.2766	1.2766	1.0000e-004	0.0000	1.2791
Total	1.0001	8.4200e-003	9.1600e-003	1.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	1.2766	1.2766	1.0000e-004	0.0000	1.2791

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5000e-004	4.0000e-004	4.0100e-003	1.0000e-005	9.0000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.8314	0.8314	3.0000e-005	0.0000	0.8322
Total	5.5000e-004	4.0000e-004	4.0100e-003	1.0000e-005	9.0000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.8314	0.8314	3.0000e-005	0.0000	0.8322

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	0.9989					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2100e-003	8.4200e-003	9.1600e-003	1.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	1.2766	1.2766	1.0000e-004	0.0000	1.2791
Total	1.0001	8.4200e-003	9.1600e-003	1.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	1.2766	1.2766	1.0000e-004	0.0000	1.2791

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.5000e-004	4.0000e-004	4.0100e-003	1.0000e-005	9.0000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.8314	0.8314	3.0000e-005	0.0000	0.8322
Total	5.5000e-004	4.0000e-004	4.0100e-003	1.0000e-005	9.0000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.8314	0.8314	3.0000e-005	0.0000	0.8322

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1619	0.8318	1.8847	5.6800e-003	0.4501	5.8900e-003	0.4560	0.1211	5.5400e-003	0.1267	0.0000	521.5118	521.5118	0.0227	0.0000	522.0789
Unmitigated	0.1619	0.8318	1.8847	5.6800e-003	0.4501	5.8900e-003	0.4560	0.1211	5.5400e-003	0.1267	0.0000	521.5118	521.5118	0.0227	0.0000	522.0789

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	219.60	244.20	188.40	505,012	505,012
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	224.99	290.55	281.61	707,819	707,819
Total	444.59	534.75	470.01	1,212,831	1,212,831

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578299	0.039453	0.169996	0.109068	0.028307	0.006716	0.029274	0.026666	0.003071	0.001838	0.005325	0.000874	0.001112
Other Non-Asphalt Surfaces	0.578299	0.039453	0.169996	0.109068	0.028307	0.006716	0.029274	0.026666	0.003071	0.001838	0.005325	0.000874	0.001112
Parking Lot	0.578299	0.039453	0.169996	0.109068	0.028307	0.006716	0.029274	0.026666	0.003071	0.001838	0.005325	0.000874	0.001112
Unrefrigerated Warehouse-No Rail	0.578299	0.039453	0.169996	0.109068	0.028307	0.006716	0.029274	0.026666	0.003071	0.001838	0.005325	0.000874	0.001112

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	146.4598	146.4598	6.5500e-003	1.4900e-003	147.0675
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	146.4598	146.4598	6.5500e-003	1.4900e-003	147.0675
NaturalGas Mitigated	4.1700e-003	0.0372	0.0263	2.3000e-004		2.8800e-003	2.8800e-003		2.8800e-003	2.8800e-003	0.0000	41.2782	41.2782	7.9000e-004	7.6000e-004	41.5235
NaturalGas Unmitigated	4.1700e-003	0.0372	0.0263	2.3000e-004		2.8800e-003	2.8800e-003		2.8800e-003	2.8800e-003	0.0000	41.2782	41.2782	7.9000e-004	7.6000e-004	41.5235

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	259184	1.4000e-003	0.0119	5.0800e-003	8.0000e-005		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	13.8310	13.8310	2.7000e-004	2.5000e-004	13.9132
Other Non-Asphalt Surfaces	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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	514341	2.7700e-003	0.0252	0.0212	1.5000e-004		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	27.4472	27.4472	5.3000e-004	5.0000e-004	27.6103
Total		4.1700e-003	0.0372	0.0263	2.3000e-004		2.8900e-003	2.8900e-003		2.8900e-003	2.8900e-003	0.0000	41.2782	41.2782	8.0000e-004	7.5000e-004	41.5235

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	tons/yr										MT/yr					
Apartments Mid Rise	259184	1.4000e-003	0.0119	5.0800e-003	8.0000e-005		9.7000e-004	9.7000e-004		9.7000e-004	9.7000e-004	0.0000	13.8310	13.8310	2.7000e-004	2.5000e-004	13.9132
Other Non-Asphalt Surfaces	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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	514341	2.7700e-003	0.0252	0.0212	1.5000e-004		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	27.4472	27.4472	5.3000e-004	5.0000e-004	27.6103
Total		4.1700e-003	0.0372	0.0263	2.3000e-004		2.8900e-003	2.8900e-003		2.8900e-003	2.8900e-003	0.0000	41.2782	41.2782	8.0000e-004	7.5000e-004	41.5235

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	123851	27.6197	1.2400e-003	2.8000e-004	27.7343
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	1260	0.2810	1.0000e-005	0.0000	0.2822
Parking Lot	8400	1.8733	8.0000e-005	2.0000e-005	1.8811
Unrefrigerated Warehouse-No Rail	523234	116.6858	5.2200e-003	1.1900e-003	117.1700
Total		146.4598	6.5500e-003	1.4900e-003	147.0675

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	123851	27.6197	1.2400e-003	2.8000e-004	27.7343
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	1260	0.2810	1.0000e-005	0.0000	0.2822
Parking Lot	8400	1.8733	8.0000e-005	2.0000e-005	1.8811
Unrefrigerated Warehouse-No Rail	523234	116.6858	5.2200e-003	1.1900e-003	117.1700
Total		146.4598	6.5500e-003	1.4900e-003	147.0675

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.8076	3.0800e-003	0.2255	2.0000e-005		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	0.9296	0.9296	3.7000e-004	1.0000e-005	0.9420
Unmitigated	0.8076	3.0800e-003	0.2255	2.0000e-005		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	0.9296	0.9296	3.7000e-004	1.0000e-005	0.9420

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	0.0999					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7007					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.0000e-005	4.9000e-004	2.1000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5618	0.5618	1.0000e-005	1.0000e-005	0.5651
Landscaping	6.9500e-003	2.6000e-003	0.2253	1.0000e-005		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	0.3678	0.3678	3.6000e-004	0.0000	0.3769
Total	0.8076	3.0900e-003	0.2255	1.0000e-005		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	0.9296	0.9296	3.7000e-004	1.0000e-005	0.9420

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	0.0999					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7007					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	6.0000e-005	4.9000e-004	2.1000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5618	0.5618	1.0000e-005	1.0000e-005	0.5651
Landscaping	6.9500e-003	2.6000e-003	0.2253	1.0000e-005		1.2400e-003	1.2400e-003		1.2400e-003	1.2400e-003	0.0000	0.3678	0.3678	3.6000e-004	0.0000	0.3769
Total	0.8076	3.0900e-003	0.2255	1.0000e-005		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	0.9296	0.9296	3.7000e-004	1.0000e-005	0.9420

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	45.1602	0.9508	0.0228	75.7169
Unmitigated	56.4503	1.1885	0.0285	94.6462

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	1.95462 / 1.23226	3.9406	0.0638	1.5400e-003	5.9948
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	34.4562 / 0	52.5097	1.1246	0.0269	88.6514
Total		56.4503	1.1885	0.0285	94.6462

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	1.5637 / 0.985809	3.1525	0.0511	1.2300e-003	4.7958
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	27.565 / 0	42.0078	0.8997	0.0216	70.9211
Total		45.1603	0.9508	0.0228	75.7169

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	27.7967	1.6427	0.0000	68.8650
Unmitigated	31.2322	1.8458	0.0000	77.3764

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	13.8	2.8013	0.1656	0.0000	6.9400
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	140.06	28.4309	1.6802	0.0000	70.4364
Total		31.2322	1.8458	0.0000	77.3764

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	12.282	2.4931	0.1473	0.0000	6.1766
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	124.653	25.3035	1.4954	0.0000	62.6884
Total		27.7967	1.6427	0.0000	68.8650

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Storage Pro Phase 2 - Sonoma-San Francisco County, Summer

Storage Pro Phase 2
Sonoma-San Francisco County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	149.00	1000sqft	0.83	148,225.00	0
Other Non-Asphalt Surfaces	0.17	Acre	0.17	7,405.20	0
Other Non-Asphalt Surfaces	0.83	Acre	0.83	36,154.80	0
Parking Lot	60.00	Space	0.54	24,000.00	0
Parking Lot	9.00	Space	0.08	3,600.00	0
Apartments Mid Rise	30.00	Dwelling Unit	0.21	30,000.00	86

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	75
Climate Zone	4	Operational Year	2021		
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	491.65	CH4 Intensity (lb/MW hr)	0.022	N2O Intensity (lb/MW hr)	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Storage Pro Phase 2

Energy intensities adjusted based on the Renewable Portfolio Standard

Land Use - Based on site plan and project description

Demolition - Demolition of existing buildings and surface parking (approximately 5,926 tons of debris)

Vehicle Trips - Trip rates consistent with the Focused Traffic Study for the StoragePRO Phase II Project (W-Trans 2018)

Woodstoves - No woodburning

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures

Water Mitigation - Green Building Code

Waste Mitigation - 75 percent statewide diversion/recycling mandate (11% reduction)

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	5.10	0.00
tblLandUse	LandUseSquareFeet	149,000.00	148,225.00
tblLandUse	LotAcreage	3.42	0.83
tblLandUse	LotAcreage	0.79	0.21
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	641.35	491.65
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblVehicleTrips	ST_TR	6.39	8.14
tblVehicleTrips	ST_TR	1.68	1.95
tblVehicleTrips	SU_TR	5.86	6.28
tblVehicleTrips	SU_TR	1.68	1.89
tblVehicleTrips	WD_TR	6.65	7.32
tblVehicleTrips	WD_TR	1.68	1.51
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	3.3570	32.0148	21.2091	0.0488	6.9533	1.3337	8.2870	3.3893	1.2471	4.3770	0.0000	5,001.7461	5,001.7461	0.7705	0.0000	5,020.7936
2020	200.1405	22.4162	20.1953	0.0452	1.1990	0.9802	2.1791	0.3239	0.9392	1.2631	0.0000	4,372.5595	4,372.5595	0.5649	0.0000	4,386.6814
Maximum	200.1405	32.0148	21.2091	0.0488	6.9533	1.3337	8.2870	3.3893	1.2471	4.3770	0.0000	5,001.7461	5,001.7461	0.7705	0.0000	5,020.7936

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	3.3570	32.0148	21.2091	0.0488	3.4660	1.3337	4.7997	1.5372	1.2471	2.5249	0.0000	5,001.7461	5,001.7461	0.7705	0.0000	5,020.7936
2020	200.1405	22.4162	20.1953	0.0452	1.1990	0.9802	2.1791	0.3239	0.9392	1.2631	0.0000	4,372.5595	4,372.5595	0.5649	0.0000	4,386.6814
Maximum	200.1405	32.0148	21.2091	0.0488	3.4660	1.3337	4.7997	1.5372	1.2471	2.5249	0.0000	5,001.7461	5,001.7461	0.7705	0.0000	5,020.7936

	ROG	NOx	CO	SO2	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	42.78	0.00	33.32	49.88	0.00	32.84	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.4740	0.1159	2.5399	6.9000e-004		0.0208	0.0208		0.0208	0.0208	0.0000	115.6810	115.6810	6.5800e-003	2.0400e-003	116.4528
Energy	0.0229	0.2036	0.1439	1.2500e-003		0.0158	0.0158		0.0158	0.0158		249.3229	249.3229	4.7800e-003	4.5700e-003	250.8045
Mobile	1.1526	5.1403	12.3218	0.0381	3.0112	0.0376	3.0488	0.8073	0.0353	0.8426		3,851.8152	3,851.8152	0.1605		3,855.8271
Total	5.6495	5.4598	15.0056	0.0400	3.0112	0.0742	3.0854	0.8073	0.0719	0.8792	0.0000	4,216.8191	4,216.8191	0.1718	6.6100e-003	4,223.0844

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	4.4740	0.1159	2.5399	6.9000e-004		0.0208	0.0208		0.0208	0.0208	0.0000	115.6810	115.6810	6.5800e-003	2.0400e-003	116.4528
Energy	0.0229	0.2036	0.1439	1.2500e-003		0.0158	0.0158		0.0158	0.0158		249.3229	249.3229	4.7800e-003	4.5700e-003	250.8045
Mobile	1.1526	5.1403	12.3218	0.0381	3.0112	0.0376	3.0488	0.8073	0.0353	0.8426		3,851.8152	3,851.8152	0.1605		3,855.8271
Total	5.6495	5.4598	15.0056	0.0400	3.0112	0.0742	3.0854	0.8073	0.0719	0.8792	0.0000	4,216.8191	4,216.8191	0.1718	6.6100e-003	4,223.0844

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/1/2019	4/26/2019	5	20	
2	Site Preparation	Site Preparation	4/27/2019	5/1/2019	5	3	
3	Grading	Grading	5/2/2019	5/9/2019	5	6	
4	Building Construction	Building Construction	5/10/2019	3/12/2020	5	220	
5	Paving	Paving	3/13/2020	3/26/2020	5	10	
6	Architectural Coating	Architectural Coating	3/27/2020	4/9/2020	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 1.62

Residential Indoor: 60,750; Residential Outdoor: 20,250; Non-Residential Indoor: 222,338; Non-Residential Outdoor: 74,113; Striped

Offroad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
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	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	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	3	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	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	586.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	114.00	39.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3405	0.0000	6.3405	0.9600	0.0000	0.9600			0.0000			0.0000
Off-Road	2.2950	22.6751	14.8943	0.0241		1.2863	1.2863		1.2017	1.2017		2,360.7198	2,360.7198	0.6011		2,375.7475
Total	2.2950	22.6751	14.8943	0.0241	6.3405	1.2863	7.6268	0.9600	1.2017	2.1618		2,360.7198	2,360.7198	0.6011		2,375.7475

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	0.2705	9.2943	1.8736	0.0235	0.5060	0.0466	0.5525	0.1381	0.0446	0.1827		2,527.2772	2,527.2772	0.1563		2,531.1840
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	0.0692	0.0454	0.5322	1.1400e-003	0.1068	8.6000e-004	0.1077	0.0283	8.0000e-004	0.0291		113.7491	113.7491	4.5200e-003		113.8621
Total	0.3397	9.3397	2.4057	0.0247	0.6128	0.0474	0.6602	0.1665	0.0454	0.2118		2,641.0263	2,641.0263	0.1608		2,645.0462

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					2.8532	0.0000	2.8532	0.4320	0.0000	0.4320			0.0000				0.0000
Off-Road	2.2950	22.6751	14.8943	0.0241		1.2863	1.2863		1.2017	1.2017	0.0000	2,360.7197	2,360.7197	0.6011			2,375.7475
Total	2.2950	22.6751	14.8943	0.0241	2.8532	1.2863	4.1395	0.4320	1.2017	1.6338	0.0000	2,360.7197	2,360.7197	0.6011			2,375.7475

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	0.2705	9.2943	1.8736	0.0235	0.5060	0.0466	0.5525	0.1381	0.0446	0.1827		2,527.2772	2,527.2772	0.1563			2,531.1840
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	0.0692	0.0454	0.5322	1.1400e-003	0.1068	8.6000e-004	0.1077	0.0283	8.0000e-004	0.0291		113.7491	113.7491	4.5200e-003			113.8621
Total	0.3397	9.3397	2.4057	0.0247	0.6128	0.0474	0.6602	0.1665	0.0454	0.2118		2,641.0263	2,641.0263	0.1608			2,645.0462

3.3 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000				0.0000
Off-Road	1.7557	21.5386	11.9143	0.0245		0.8537	0.8537		0.7854	0.7854		2,426.5408	2,426.5408	0.7677			2,445.7341
Total	1.7557	21.5386	11.9143	0.0245	1.5908	0.8537	2.4445	0.1718	0.7854	0.9572		2,426.5408	2,426.5408	0.7677			2,445.7341

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	0.0426	0.0280	0.3275	7.0000e-004	0.0657	5.3000e-004	0.0663	0.0174	4.9000e-004	0.0179		69.9995	69.9995	2.7800e-003		70.0690
Total	0.0426	0.0280	0.3275	7.0000e-004	0.0657	5.3000e-004	0.0663	0.0174	4.9000e-004	0.0179		69.9995	69.9995	2.7800e-003		70.0690

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7158	0.0000	0.7158	0.0773	0.0000	0.0773			0.0000			0.0000
Off-Road	1.7557	21.5386	11.9143	0.0245		0.8537	0.8537		0.7854	0.7854	0.0000	2,426.5408	2,426.5408	0.7677		2,445.7341
Total	1.7557	21.5386	11.9143	0.0245	0.7158	0.8537	1.5695	0.0773	0.7854	0.8627	0.0000	2,426.5408	2,426.5408	0.7677		2,445.7341

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	0.0426	0.0280	0.3275	7.0000e-004	0.0657	5.3000e-004	0.0663	0.0174	4.9000e-004	0.0179		69.9995	69.9995	2.7800e-003		70.0690
Total	0.0426	0.0280	0.3275	7.0000e-004	0.0657	5.3000e-004	0.0663	0.0174	4.9000e-004	0.0179		69.9995	69.9995	2.7800e-003		70.0690

3.4 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.0287	22.7444	10.1518	0.0206		1.0730	1.0730		0.9871	0.9871		2,041.2539	2,041.2539	0.6458		2,057.3997
Total	2.0287	22.7444	10.1518	0.0206	6.5523	1.0730	7.6253	3.3675	0.9871	4.3546		2,041.2539	2,041.2539	0.6458		2,057.3997

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	0.0532	0.0349	0.4094	8.8000e-004	0.0822	6.6000e-004	0.0828	0.0218	6.1000e-004	0.0224		87.4993	87.4993	3.4800e-003		87.5863
Total	0.0532	0.0349	0.4094	8.8000e-004	0.0822	6.6000e-004	0.0828	0.0218	6.1000e-004	0.0224		87.4993	87.4993	3.4800e-003		87.5863

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					2.9486	0.0000	2.9486	1.5154	0.0000	1.5154			0.0000			0.0000
Off-Road	2.0287	22.7444	10.1518	0.0206		1.0730	1.0730		0.9871	0.9871	0.0000	2,041.2539	2,041.2539	0.6458		2,057.3997
Total	2.0287	22.7444	10.1518	0.0206	2.9486	1.0730	4.0215	1.5154	0.9871	2.5025	0.0000	2,041.2539	2,041.2539	0.6458		2,057.3997

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	0.0532	0.0349	0.4094	8.8000e-004	0.0822	6.6000e-004	0.0828	0.0218	6.1000e-004	0.0224		87.4993	87.4993	3.4800e-003			87.5863
Total	0.0532	0.0349	0.4094	8.8000e-004	0.0822	6.6000e-004	0.0828	0.0218	6.1000e-004	0.0224		87.4993	87.4993	3.4800e-003			87.5863

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.5581	18.9103	15.2545	0.0250		1.0901	1.0901		1.0449	1.0449		2,312.1454	2,312.1454	0.4810			2,324.1705
Total	2.5581	18.9103	15.2545	0.0250		1.0901	1.0901		1.0449	1.0449		2,312.1454	2,312.1454	0.4810			2,324.1705

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	0.1922	5.1037	1.2880	0.0106	0.2625	0.0398	0.3024	0.0755	0.0381	0.1136		1,121.7236	1,121.7236	0.0713			1,123.5060
Worker	0.6067	0.3983	4.6666	0.0100	0.9365	7.5700e-003	0.9441	0.2484	6.9800e-003	0.2554		997.4924	997.4924	0.0396			998.4833
Total	0.7989	5.5021	5.9546	0.0206	1.1990	0.0474	1.2464	0.3239	0.0451	0.3690		2,119.2160	2,119.2160	0.1109			2,121.9893

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	2.5581	18.9103	15.2545	0.0250		1.0901	1.0901		1.0449	1.0449	0.0000	2,312.1454	2,312.1454	0.4810		2,324.1705
Total	2.5581	18.9103	15.2545	0.0250		1.0901	1.0901		1.0449	1.0449	0.0000	2,312.1454	2,312.1454	0.4810		2,324.1705

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	0.1922	5.1037	1.2880	0.0106	0.2625	0.0398	0.3024	0.0755	0.0381	0.1136		1,121.7236	1,121.7236	0.0713		1,123.5060
Worker	0.6067	0.3983	4.6666	0.0100	0.9365	7.5700e-003	0.9441	0.2484	6.9800e-003	0.2554		997.4924	997.4924	0.0396		998.4833
Total	0.7989	5.5021	5.9546	0.0206	1.1990	0.0474	1.2464	0.3239	0.0451	0.3690		2,119.2160	2,119.2160	0.1109		2,121.9893

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	2.2879	17.4336	14.8972	0.0250		0.9482	0.9482		0.9089	0.9089		2,288.8877	2,288.8877	0.4646		2,300.5014
Total	2.2879	17.4336	14.8972	0.0250		0.9482	0.9482		0.9089	0.9089		2,288.8877	2,288.8877	0.4646		2,300.5014

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	0.1503	4.6298	1.1109	0.0105	0.2625	0.0247	0.2872	0.0755	0.0236	0.0991		1,116.8711	1,116.8711	0.0655			1,118.5088
Worker	0.5574	0.3528	4.1872	9.7200e-003	0.9365	7.2900e-003	0.9438	0.2484	6.7200e-003	0.2551		966.8007	966.8007	0.0348			967.6712
Total	0.7077	4.9826	5.2981	0.0202	1.1990	0.0320	1.2310	0.3239	0.0303	0.3542		2,083.6718	2,083.6718	0.1003			2,086.1800

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	2.2879	17.4336	14.8972	0.0250		0.9482	0.9482		0.9089	0.9089	0.0000	2,288.8877	2,288.8877	0.4646			2,300.5014
Total	2.2879	17.4336	14.8972	0.0250		0.9482	0.9482		0.9089	0.9089	0.0000	2,288.8877	2,288.8877	0.4646			2,300.5014

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	0.1503	4.6298	1.1109	0.0105	0.2625	0.0247	0.2872	0.0755	0.0236	0.0991		1,116.8711	1,116.8711	0.0655			1,118.5088
Worker	0.5574	0.3528	4.1872	9.7200e-003	0.9365	7.2900e-003	0.9438	0.2484	6.7200e-003	0.2551		966.8007	966.8007	0.0348			967.6712
Total	0.7077	4.9826	5.2981	0.0202	1.1990	0.0320	1.2310	0.3239	0.0303	0.3542		2,083.6718	2,083.6718	0.1003			2,086.1800

3.6 Paving - 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	1.1547	11.5873	11.8076	0.0178		0.6565	0.6565		0.6051	0.6051		1,709.2180	1,709.2180	0.5417		1,722.7605
Paving	0.1624					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3171	11.5873	11.8076	0.0178		0.6565	0.6565		0.6051	0.6051		1,709.2180	1,709.2180	0.5417		1,722.7605

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	0.0733	0.0464	0.5510	1.2800e-003	0.1232	9.6000e-004	0.1242	0.0327	8.8000e-004	0.0336		127.2106	127.2106	4.5800e-003		127.3252
Total	0.0733	0.0464	0.5510	1.2800e-003	0.1232	9.6000e-004	0.1242	0.0327	8.8000e-004	0.0336		127.2106	127.2106	4.5800e-003		127.3252

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	1.1547	11.5873	11.8076	0.0178		0.6565	0.6565		0.6051	0.6051	0.0000	1,709.2180	1,709.2180	0.5417		1,722.7605
Paving	0.1624					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3171	11.5873	11.8076	0.0178		0.6565	0.6565		0.6051	0.6051	0.0000	1,709.2180	1,709.2180	0.5417		1,722.7605

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	0.0733	0.0464	0.5510	1.2800e-003	0.1232	9.6000e-004	0.1242	0.0327	8.8000e-004	0.0336		127.2106	127.2106	4.5800e-003		127.3252
Total	0.0733	0.0464	0.5510	1.2800e-003	0.1232	9.6000e-004	0.1242	0.0327	8.8000e-004	0.0336		127.2106	127.2106	4.5800e-003		127.3252

3.7 Architectural Coating - 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					
Archit. Coating	199.7859					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	200.0281	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

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	0.1125	0.0712	0.8448	1.9600e-003	0.1889	1.4700e-003	0.1904	0.0501	1.3600e-003	0.0515		195.0563	195.0563	7.0300e-003		195.2319
Total	0.1125	0.0712	0.8448	1.9600e-003	0.1889	1.4700e-003	0.1904	0.0501	1.3600e-003	0.0515		195.0563	195.0563	7.0300e-003		195.2319

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	199.7859					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	200.0281	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

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	0.1125	0.0712	0.8448	1.9600e-003	0.1889	1.4700e-003	0.1904	0.0501	1.3600e-003	0.0515		195.0563	195.0563	7.0300e-003		195.2319
Total	0.1125	0.0712	0.8448	1.9600e-003	0.1889	1.4700e-003	0.1904	0.0501	1.3600e-003	0.0515		195.0563	195.0563	7.0300e-003		195.2319

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.1526	5.1403	12.3218	0.0381	3.0112	0.0376	3.0488	0.8073	0.0353	0.8426		3,851.8152	3,851.8152	0.1605		3,855.8271
Unmitigated	1.1526	5.1403	12.3218	0.0381	3.0112	0.0376	3.0488	0.8073	0.0353	0.8426		3,851.8152	3,851.8152	0.1605		3,855.8271

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	219.60	244.20	188.40	505,012	505,012
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	224.99	290.55	281.61	707,819	707,819
Total	444.59	534.75	470.01	1,212,831	1,212,831

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578299	0.039453	0.169996	0.109068	0.028307	0.006716	0.029274	0.026666	0.003071	0.001838	0.005325	0.000874	0.001112
Other Non-Asphalt Surfaces	0.578299	0.039453	0.169996	0.109068	0.028307	0.006716	0.029274	0.026666	0.003071	0.001838	0.005325	0.000874	0.001112
Parking Lot	0.578299	0.039453	0.169996	0.109068	0.028307	0.006716	0.029274	0.026666	0.003071	0.001838	0.005325	0.000874	0.001112
Unrefrigerated Warehouse-No Rail	0.578299	0.039453	0.169996	0.109068	0.028307	0.006716	0.029274	0.026666	0.003071	0.001838	0.005325	0.000874	0.001112

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.0229	0.2036	0.1439	1.2500e-003		0.0158	0.0158		0.0158	0.0158		249.3229	249.3229	4.7800e-003	4.5700e-003	250.8045
NaturalGas Unmitigated	0.0229	0.2036	0.1439	1.2500e-003		0.0158	0.0158		0.0158	0.0158		249.3229	249.3229	4.7800e-003	4.5700e-003	250.8045

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						
Apartments Mid Rise	710.092	7.6600e-003	0.0654	0.0279	4.2000e-004		5.2900e-003	5.2900e-003		5.2900e-003	5.2900e-003			83.5402	83.5402	1.6000e-003	1.5300e-003	84.0367
Other Non-Asphalt Surfaces	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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1409.15	0.0152	0.1382	0.1161	8.3000e-004		0.0105	0.0105		0.0105	0.0105			165.7827	165.7827	3.1800e-003	3.0400e-003	166.7678
Total		0.0229	0.2036	0.1439	1.2500e-003		0.0158	0.0158		0.0158	0.0158			249.3229	249.3229	4.7800e-003	4.5700e-003	250.8045

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						
Apartments Mid Rise	0.710092	7.6600e-003	0.0654	0.0279	4.2000e-004		5.2900e-003	5.2900e-003		5.2900e-003	5.2900e-003			83.5402	83.5402	1.6000e-003	1.5300e-003	84.0367
Other Non-Asphalt Surfaces	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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.40915	0.0152	0.1382	0.1161	8.3000e-004		0.0105	0.0105		0.0105	0.0105			165.7827	165.7827	3.1800e-003	3.0400e-003	166.7678
Total		0.0229	0.2036	0.1439	1.2500e-003		0.0158	0.0158		0.0158	0.0158			249.3229	249.3229	4.7800e-003	4.5700e-003	250.8045

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.4740	0.1159	2.5399	6.9000e-004		0.0208	0.0208		0.0208	0.0208	0.0000	115.6810	115.6810	6.5800e-003	2.0400e-003	116.4528
Unmitigated	4.4740	0.1159	2.5399	6.9000e-004		0.0208	0.0208		0.0208	0.0208	0.0000	115.6810	115.6810	6.5800e-003	2.0400e-003	116.4528

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	0.5474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.8392					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0102	0.0871	0.0371	5.6000e-004		7.0400e-003	7.0400e-003		7.0400e-003	7.0400e-003	0.0000	111.1765	111.1765	2.1300e-003	2.0400e-003	111.8371
Landscaping	0.0773	0.0288	2.5029	1.3000e-004		0.0138	0.0138		0.0138	0.0138		4.5045	4.5045	4.4500e-003		4.6157
Total	4.4740	0.1159	2.5399	6.9000e-004		0.0208	0.0208		0.0208	0.0208	0.0000	115.6810	115.6810	6.5800e-003	2.0400e-003	116.4528

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	0.5474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.8392					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0102	0.0871	0.0371	5.6000e-004		7.0400e-003	7.0400e-003		7.0400e-003	7.0400e-003	0.0000	111.1765	111.1765	2.1300e-003	2.0400e-003	111.8371
Landscaping	0.0773	0.0288	2.5029	1.3000e-004		0.0138	0.0138		0.0138	0.0138		4.5045	4.5045	4.4500e-003		4.6157
Total	4.4740	0.1159	2.5399	6.9000e-004		0.0208	0.0208		0.0208	0.0208	0.0000	115.6810	115.6810	6.5800e-003	2.0400e-003	116.4528

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Storage Pro Phase 2 - Sonoma-San Francisco County, Winter

**Storage Pro Phase 2
Sonoma-San Francisco County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	149.00	1000sqft	0.83	148,225.00	0
Other Non-Asphalt Surfaces	0.17	Acre	0.17	7,405.20	0
Other Non-Asphalt Surfaces	0.83	Acre	0.83	36,154.80	0
Parking Lot	60.00	Space	0.54	24,000.00	0
Parking Lot	9.00	Space	0.08	3,600.00	0
Apartments Mid Rise	30.00	Dwelling Unit	0.21	30,000.00	86

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	75
Climate Zone	4	Operational Year	2021		
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	491.65	CH4 Intensity (lb/MW hr)	0.022	N2O Intensity (lb/MW hr)	0.005

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Storage Pro Phase 2

Energy intensities adjusted based on the Renewable Portfolio Standard

Land Use - Based on site plan and project description

Demolition - Demolition of existing buildings and surface parking (approximately 5,926 tons of debris)

Vehicle Trips - Trip rates consistent with the Focused Traffic Study for the StoragePRO Phase II Project (W-Trans 2018)

Woodstoves - No woodburning

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures

Water Mitigation - Green Building Code

Waste Mitigation - 75 percent statewide diversion/recycling mandate (11% reduction)

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	5.10	0.00
tblLandUse	LandUseSquareFeet	149,000.00	148,225.00
tblLandUse	LotAcreage	3.42	0.83
tblLandUse	LotAcreage	0.79	0.21
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.022
tblProjectCharacteristics	CO2IntensityFactor	641.35	491.65
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.005
tblVehicleTrips	ST_TR	6.39	8.14
tblVehicleTrips	ST_TR	1.68	1.95
tblVehicleTrips	SU_TR	5.86	6.28
tblVehicleTrips	SU_TR	1.68	1.89
tblVehicleTrips	WD_TR	6.65	7.32
tblVehicleTrips	WD_TR	1.68	1.51
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	3.4146	32.2664	21.2991	0.0484	6.9533	1.3349	8.2882	3.3893	1.2482	4.3770	0.0000	4,960.5814	4,960.5814	0.7704	0.0000	4,979.8191
2020	200.1493	22.5553	20.2542	0.0443	1.1990	0.9807	2.1797	0.3239	0.9398	1.2636	0.0000	4,280.3129	4,280.3129	0.5688	0.0000	4,294.5323
Maximum	200.1493	32.2664	21.2991	0.0484	6.9533	1.3349	8.2882	3.3893	1.2482	4.3770	0.0000	4,960.5814	4,960.5814	0.7704	0.0000	4,979.8191

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	3.4146	32.2664	21.2991	0.0484	3.4660	1.3349	4.8009	1.5372	1.2482	2.5249	0.0000	4,960.5814	4,960.5814	0.7704	0.0000	4,979.8191
2020	200.1493	22.5553	20.2542	0.0443	1.1990	0.9807	2.1797	0.3239	0.9398	1.2636	0.0000	4,280.3129	4,280.3129	0.5688	0.0000	4,294.5323
Maximum	200.1493	32.2664	21.2991	0.0484	3.4660	1.3349	4.8009	1.5372	1.2482	2.5249	0.0000	4,960.5814	4,960.5814	0.7704	0.0000	4,979.8191

	ROG	NOx	CO	SO2	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	42.78	0.00	33.31	49.88	0.00	32.84	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.4740	0.1159	2.5399	6.9000e-004		0.0208	0.0208		0.0208	0.0208	0.0000	115.6810	115.6810	6.5800e-003	2.0400e-003	116.4528
Energy	0.0229	0.2036	0.1439	1.2500e-003		0.0158	0.0158		0.0158	0.0158		249.3229	249.3229	4.7800e-003	4.5700e-003	250.8045
Mobile	1.0301	5.4463	12.6136	0.0360	3.0112	0.0380	3.0492	0.8073	0.0357	0.8429		3,643.0919	3,643.0919	0.1636		3,647.1829
Total	5.5270	5.7659	15.2974	0.0379	3.0112	0.0745	3.0857	0.8073	0.0722	0.8795	0.0000	4,008.0958	4,008.0958	0.1750	6.6100e-003	4,014.4402

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	4.4740	0.1159	2.5399	6.9000e-004		0.0208	0.0208		0.0208	0.0208	0.0000	115.6810	115.6810	6.5800e-003	2.0400e-003	116.4528
Energy	0.0229	0.2036	0.1439	1.2500e-003		0.0158	0.0158		0.0158	0.0158		249.3229	249.3229	4.7800e-003	4.5700e-003	250.8045
Mobile	1.0301	5.4463	12.6136	0.0360	3.0112	0.0380	3.0492	0.8073	0.0357	0.8429		3,643.0919	3,643.0919	0.1636		3,647.1829
Total	5.5270	5.7659	15.2974	0.0379	3.0112	0.0745	3.0857	0.8073	0.0722	0.8795	0.0000	4,008.0958	4,008.0958	0.1750	6.6100e-003	4,014.4402

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/1/2019	4/26/2019	5	20	
2	Site Preparation	Site Preparation	4/27/2019	5/1/2019	5	3	
3	Grading	Grading	5/2/2019	5/9/2019	5	6	
4	Building Construction	Building Construction	5/10/2019	3/12/2020	5	220	
5	Paving	Paving	3/13/2020	3/26/2020	5	10	
6	Architectural Coating	Architectural Coating	3/27/2020	4/9/2020	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 1.62

Residential Indoor: 60,750; Residential Outdoor: 20,250; Non-Residential Indoor: 222,338; Non-Residential Outdoor: 74,113; Striped

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
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	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	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	3	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	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	586.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	114.00	39.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3405	0.0000	6.3405	0.9600	0.0000	0.9600			0.0000			0.0000
Off-Road	2.2950	22.6751	14.8943	0.0241		1.2863	1.2863		1.2017	1.2017		2,360.7198	2,360.7198	0.6011		2,375.7475
Total	2.2950	22.6751	14.8943	0.0241	6.3405	1.2863	7.6268	0.9600	1.2017	2.1618		2,360.7198	2,360.7198	0.6011		2,375.7475

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	0.2783	9.5350	2.0211	0.0232	0.5060	0.0478	0.5537	0.1381	0.0457	0.1838		2,494.1426	2,494.1426	0.1640		2,498.2433
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	0.0747	0.0563	0.5220	1.0600e-003	0.1068	8.6000e-004	0.1077	0.0283	8.0000e-004	0.0291		105.7190	105.7190	4.3700e-003		105.8283
Total	0.3530	9.5913	2.5431	0.0243	0.6128	0.0486	0.6614	0.1665	0.0465	0.2130		2,599.8616	2,599.8616	0.1684		2,604.0716

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					2.8532	0.0000	2.8532	0.4320	0.0000	0.4320			0.0000				0.0000
Off-Road	2.2950	22.6751	14.8943	0.0241		1.2863	1.2863		1.2017	1.2017	0.0000	2,360.7197	2,360.7197	0.6011			2,375.7475
Total	2.2950	22.6751	14.8943	0.0241	2.8532	1.2863	4.1395	0.4320	1.2017	1.6338	0.0000	2,360.7197	2,360.7197	0.6011			2,375.7475

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	0.2783	9.5350	2.0211	0.0232	0.5060	0.0478	0.5537	0.1381	0.0457	0.1838		2,494.1426	2,494.1426	0.1640			2,498.2433
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	0.0747	0.0563	0.5220	1.0600e-003	0.1068	8.6000e-004	0.1077	0.0283	8.0000e-004	0.0291		105.7190	105.7190	4.3700e-003			105.8283
Total	0.3530	9.5913	2.5431	0.0243	0.6128	0.0486	0.6614	0.1665	0.0465	0.2130		2,599.8616	2,599.8616	0.1684			2,604.0716

3.3 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000				0.0000
Off-Road	1.7557	21.5386	11.9143	0.0245		0.8537	0.8537		0.7854	0.7854		2,426.5408	2,426.5408	0.7677			2,445.7341
Total	1.7557	21.5386	11.9143	0.0245	1.5908	0.8537	2.4445	0.1718	0.7854	0.9572		2,426.5408	2,426.5408	0.7677			2,445.7341

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	0.0460	0.0346	0.3212	6.5000e-004	0.0657	5.3000e-004	0.0663	0.0174	4.9000e-004	0.0179		65.0579	65.0579	2.6900e-003			65.1251
Total	0.0460	0.0346	0.3212	6.5000e-004	0.0657	5.3000e-004	0.0663	0.0174	4.9000e-004	0.0179		65.0579	65.0579	2.6900e-003			65.1251

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					0.7158	0.0000	0.7158	0.0773	0.0000	0.0773			0.0000			0.0000	
Off-Road	1.7557	21.5386	11.9143	0.0245		0.8537	0.8537		0.7854	0.7854	0.0000	2,426.5408	2,426.5408	0.7677			2,445.7341
Total	1.7557	21.5386	11.9143	0.0245	0.7158	0.8537	1.5695	0.0773	0.7854	0.8627	0.0000	2,426.5408	2,426.5408	0.7677			2,445.7341

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	0.0460	0.0346	0.3212	6.5000e-004	0.0657	5.3000e-004	0.0663	0.0174	4.9000e-004	0.0179		65.0579	65.0579	2.6900e-003			65.1251
Total	0.0460	0.0346	0.3212	6.5000e-004	0.0657	5.3000e-004	0.0663	0.0174	4.9000e-004	0.0179		65.0579	65.0579	2.6900e-003			65.1251

3.4 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.0287	22.7444	10.1518	0.0206		1.0730	1.0730		0.9871	0.9871		2,041.2539	2,041.2539	0.6458		2,057.3997
Total	2.0287	22.7444	10.1518	0.0206	6.5523	1.0730	7.6253	3.3675	0.9871	4.3546		2,041.2539	2,041.2539	0.6458		2,057.3997

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	0.0574	0.0433	0.4015	8.2000e-004	0.0822	6.6000e-004	0.0828	0.0218	6.1000e-004	0.0224		81.3223	81.3223	3.3600e-003		81.4064
Total	0.0574	0.0433	0.4015	8.2000e-004	0.0822	6.6000e-004	0.0828	0.0218	6.1000e-004	0.0224		81.3223	81.3223	3.3600e-003		81.4064

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					2.9486	0.0000	2.9486	1.5154	0.0000	1.5154			0.0000			0.0000
Off-Road	2.0287	22.7444	10.1518	0.0206		1.0730	1.0730		0.9871	0.9871	0.0000	2,041.2539	2,041.2539	0.6458		2,057.3997
Total	2.0287	22.7444	10.1518	0.0206	2.9486	1.0730	4.0215	1.5154	0.9871	2.5025	0.0000	2,041.2539	2,041.2539	0.6458		2,057.3997

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	0.0574	0.0433	0.4015	8.2000e-004	0.0822	6.6000e-004	0.0828	0.0218	6.1000e-004	0.0224		81.3223	81.3223	3.3600e-003			81.4064
Total	0.0574	0.0433	0.4015	8.2000e-004	0.0822	6.6000e-004	0.0828	0.0218	6.1000e-004	0.0224		81.3223	81.3223	3.3600e-003			81.4064

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.5581	18.9103	15.2545	0.0250		1.0901	1.0901		1.0449	1.0449		2,312.1454	2,312.1454	0.4810			2,324.1705
Total	2.5581	18.9103	15.2545	0.0250		1.0901	1.0901		1.0449	1.0449		2,312.1454	2,312.1454	0.4810			2,324.1705

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	0.2018	5.1769	1.4673	0.0103	0.2625	0.0408	0.3033	0.0755	0.0390	0.1145		1,098.5434	1,098.5434	0.0771			1,100.4706
Worker	0.6548	0.4936	4.5774	9.3300e-003	0.9365	7.5700e-003	0.9441	0.2484	6.9800e-003	0.2554		927.0743	927.0743	0.0384			928.0331
Total	0.8566	5.6705	6.0446	0.0197	1.1990	0.0483	1.2474	0.3239	0.0460	0.3699		2,025.6177	2,025.6177	0.1154			2,028.5037

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	2.5581	18.9103	15.2545	0.0250		1.0901	1.0901		1.0449	1.0449	0.0000	2,312.1454	2,312.1454	0.4810		2,324.1705
Total	2.5581	18.9103	15.2545	0.0250		1.0901	1.0901		1.0449	1.0449	0.0000	2,312.1454	2,312.1454	0.4810		2,324.1705

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	0.2018	5.1769	1.4673	0.0103	0.2625	0.0408	0.3033	0.0755	0.0390	0.1145		1,098.5434	1,098.5434	0.0771		1,100.4706
Worker	0.6548	0.4936	4.5774	9.3300e-003	0.9365	7.5700e-003	0.9441	0.2484	6.9800e-003	0.2554		927.0743	927.0743	0.0384		928.0331
Total	0.8566	5.6705	6.0446	0.0197	1.1990	0.0483	1.2474	0.3239	0.0460	0.3699		2,025.6177	2,025.6177	0.1154		2,028.5037

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	2.2879	17.4336	14.8972	0.0250		0.9482	0.9482		0.9089	0.9089		2,288.8877	2,288.8877	0.4646		2,300.5014
Total	2.2879	17.4336	14.8972	0.0250		0.9482	0.9482		0.9089	0.9089		2,288.8877	2,288.8877	0.4646		2,300.5014

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	0.1583	4.6846	1.2654	0.0103	0.2625	0.0253	0.2878	0.0755	0.0242	0.0996		1,092.9618	1,092.9618	0.0707			1,094.7294
Worker	0.6009	0.4371	4.0916	9.0300e-003	0.9365	7.2900e-003	0.9438	0.2484	6.7200e-003	0.2551		898.4634	898.4634	0.0335			899.3015
Total	0.7592	5.1217	5.3570	0.0193	1.1990	0.0325	1.2315	0.3239	0.0309	0.3547		1,991.4252	1,991.4252	0.1042			1,994.0309

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	2.2879	17.4336	14.8972	0.0250		0.9482	0.9482		0.9089	0.9089	0.0000	2,288.8877	2,288.8877	0.4646			2,300.5014
Total	2.2879	17.4336	14.8972	0.0250		0.9482	0.9482		0.9089	0.9089	0.0000	2,288.8877	2,288.8877	0.4646			2,300.5014

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	0.1583	4.6846	1.2654	0.0103	0.2625	0.0253	0.2878	0.0755	0.0242	0.0996		1,092.9618	1,092.9618	0.0707			1,094.7294
Worker	0.6009	0.4371	4.0916	9.0300e-003	0.9365	7.2900e-003	0.9438	0.2484	6.7200e-003	0.2551		898.4634	898.4634	0.0335			899.3015
Total	0.7592	5.1217	5.3570	0.0193	1.1990	0.0325	1.2315	0.3239	0.0309	0.3547		1,991.4252	1,991.4252	0.1042			1,994.0309

3.6 Paving - 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	1.1547	11.5873	11.8076	0.0178		0.6565	0.6565		0.6051	0.6051		1,709.2180	1,709.2180	0.5417		1,722.7605
Paving	0.1624					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3171	11.5873	11.8076	0.0178		0.6565	0.6565		0.6051	0.6051		1,709.2180	1,709.2180	0.5417		1,722.7605

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	0.0791	0.0575	0.5384	1.1900e-003	0.1232	9.6000e-004	0.1242	0.0327	8.8000e-004	0.0336		118.2189	118.2189	4.4100e-003		118.3292
Total	0.0791	0.0575	0.5384	1.1900e-003	0.1232	9.6000e-004	0.1242	0.0327	8.8000e-004	0.0336		118.2189	118.2189	4.4100e-003		118.3292

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	1.1547	11.5873	11.8076	0.0178		0.6565	0.6565		0.6051	0.6051	0.0000	1,709.2180	1,709.2180	0.5417		1,722.7605
Paving	0.1624					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.3171	11.5873	11.8076	0.0178		0.6565	0.6565		0.6051	0.6051	0.0000	1,709.2180	1,709.2180	0.5417		1,722.7605

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	0.0791	0.0575	0.5384	1.1900e-003	0.1232	9.6000e-004	0.1242	0.0327	8.8000e-004	0.0336		118.2189	118.2189	4.4100e-003		118.3292
Total	0.0791	0.0575	0.5384	1.1900e-003	0.1232	9.6000e-004	0.1242	0.0327	8.8000e-004	0.0336		118.2189	118.2189	4.4100e-003		118.3292

3.7 Architectural Coating - 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					
Archit. Coating	199.7859					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	200.0281	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

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	0.1212	0.0882	0.8255	1.8200e-003	0.1889	1.4700e-003	0.1904	0.0501	1.3600e-003	0.0515		181.2689	181.2689	6.7600e-003		181.4380
Total	0.1212	0.0882	0.8255	1.8200e-003	0.1889	1.4700e-003	0.1904	0.0501	1.3600e-003	0.0515		181.2689	181.2689	6.7600e-003		181.4380

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	199.7859					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	200.0281	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

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	0.1212	0.0882	0.8255	1.8200e-003	0.1889	1.4700e-003	0.1904	0.0501	1.3600e-003	0.0515		181.2689	181.2689	6.7600e-003		181.4380
Total	0.1212	0.0882	0.8255	1.8200e-003	0.1889	1.4700e-003	0.1904	0.0501	1.3600e-003	0.0515		181.2689	181.2689	6.7600e-003		181.4380

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.0301	5.4463	12.6136	0.0360	3.0112	0.0380	3.0492	0.8073	0.0357	0.8429		3,643.0919	3,643.0919	0.1636		3,647.1829
Unmitigated	1.0301	5.4463	12.6136	0.0360	3.0112	0.0380	3.0492	0.8073	0.0357	0.8429		3,643.0919	3,643.0919	0.1636		3,647.1829

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	219.60	244.20	188.40	505,012	505,012
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	224.99	290.55	281.61	707,819	707,819
Total	444.59	534.75	470.01	1,212,831	1,212,831

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.578299	0.039453	0.169996	0.109068	0.028307	0.006716	0.029274	0.026666	0.003071	0.001838	0.005325	0.000874	0.001112
Other Non-Asphalt Surfaces	0.578299	0.039453	0.169996	0.109068	0.028307	0.006716	0.029274	0.026666	0.003071	0.001838	0.005325	0.000874	0.001112
Parking Lot	0.578299	0.039453	0.169996	0.109068	0.028307	0.006716	0.029274	0.026666	0.003071	0.001838	0.005325	0.000874	0.001112
Unrefrigerated Warehouse-No Rail	0.578299	0.039453	0.169996	0.109068	0.028307	0.006716	0.029274	0.026666	0.003071	0.001838	0.005325	0.000874	0.001112

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
	lb/day										lb/day						
NaturalGas Mitigated	0.0229	0.2036	0.1439	1.2500e-003		0.0158	0.0158		0.0158	0.0158			249.3229	249.3229	4.7800e-003	4.5700e-003	250.8045
NaturalGas Unmitigated	0.0229	0.2036	0.1439	1.2500e-003		0.0158	0.0158		0.0158	0.0158			249.3229	249.3229	4.7800e-003	4.5700e-003	250.8045

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
Apartments Mid Rise	710.092	7.6600e-003	0.0654	0.0279	4.2000e-004		5.2900e-003	5.2900e-003		5.2900e-003	5.2900e-003			83.5402	83.5402	1.6000e-003	1.5300e-003	84.0367
Other Non-Asphalt Surfaces	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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1409.15	0.0152	0.1382	0.1161	8.3000e-004		0.0105	0.0105		0.0105	0.0105			165.7827	165.7827	3.1800e-003	3.0400e-003	166.7678
Total		0.0229	0.2036	0.1439	1.2500e-003		0.0158	0.0158		0.0158	0.0158			249.3229	249.3229	4.7800e-003	4.5700e-003	250.8045

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
Apartments Mid Rise	0.710092	7.6600e-003	0.0654	0.0279	4.2000e-004		5.2900e-003	5.2900e-003		5.2900e-003	5.2900e-003			83.5402	83.5402	1.6000e-003	1.5300e-003	84.0367
Other Non-Asphalt Surfaces	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
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.40915	0.0152	0.1382	0.1161	8.3000e-004		0.0105	0.0105		0.0105	0.0105			165.7827	165.7827	3.1800e-003	3.0400e-003	166.7678
Total		0.0229	0.2036	0.1439	1.2500e-003		0.0158	0.0158		0.0158	0.0158			249.3229	249.3229	4.7800e-003	4.5700e-003	250.8045

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.4740	0.1159	2.5399	6.9000e-004		0.0208	0.0208		0.0208	0.0208	0.0000	115.6810	115.6810	6.5800e-003	2.0400e-003	116.4528
Unmitigated	4.4740	0.1159	2.5399	6.9000e-004		0.0208	0.0208		0.0208	0.0208	0.0000	115.6810	115.6810	6.5800e-003	2.0400e-003	116.4528

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	0.5474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.8392					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0102	0.0871	0.0371	5.6000e-004		7.0400e-003	7.0400e-003		7.0400e-003	7.0400e-003	0.0000	111.1765	111.1765	2.1300e-003	2.0400e-003	111.8371
Landscaping	0.0773	0.0288	2.5029	1.3000e-004		0.0138	0.0138		0.0138	0.0138		4.5045	4.5045	4.4500e-003		4.6157
Total	4.4740	0.1159	2.5399	6.9000e-004		0.0208	0.0208		0.0208	0.0208	0.0000	115.6810	115.6810	6.5800e-003	2.0400e-003	116.4528

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	0.5474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.8392					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0102	0.0871	0.0371	5.6000e-004		7.0400e-003	7.0400e-003		7.0400e-003	7.0400e-003	0.0000	111.1765	111.1765	2.1300e-003	2.0400e-003	111.8371
Landscaping	0.0773	0.0288	2.5029	1.3000e-004		0.0138	0.0138		0.0138	0.0138		4.5045	4.5045	4.4500e-003		4.6157
Total	4.4740	0.1159	2.5399	6.9000e-004		0.0208	0.0208		0.0208	0.0208	0.0000	115.6810	115.6810	6.5800e-003	2.0400e-003	116.4528

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Roadway Screening Analysis Calculator

County specific tables containing estimates of risk and hazard impacts from roadways in the Bay Area.

Search Parameters County: <input type="text" value="Sonoma"/> Roadway Direction: <input type="text" value="North-South"/> Side of the Roadway: <input type="text" value="West"/> Distance from Roadway: <input type="text" value="600"/> feet Annual Average Daily Traffic (ADT): <input type="text" value="23,938"/>		Results <h2>Sonoma County</h2> <p>NORTH-SOUTH DIRECTIONAL ROADWAY</p> <p>PM2.5 annual average <input type="text" value="0.033"/> ($\mu\text{g}/\text{m}^3$)</p> <p>Cancer Risk <input type="text" value="1.31"/> (per million)</p> <p>Data for Sonoma County based on meteorological data collected from Santa Rosa in 2005</p>
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Notes and References:

1. Emissions were developed using EMFAC2011 for fleet mix in 2014 assuming 10,000 AADT and includes impacts from diesel and gasoline vehicle exhaust, brake and tire wear, and resuspended dust.
2. Roadways were modeled using CALINE4 air dispersion model assuming a source length of one kilometer. Meteorological data used to estimate the screening values are noted at the bottom of the "Results" box.
3. Cancer risks were estimated for 70 year lifetime exposure starting in 2014 that includes sensitivity values for early life exposures and OEHHA toxicity values adopted in 2013.

Roadway Screening Analysis Calculator

County specific tables containing estimates of risk and hazard impacts from roadways in the Bay Area.

Search Parameters		Results
County	<input type="text" value="Sonoma"/>	Sonoma County
Roadway Direction	<input type="text" value="East-West"/>	EAST-WEST DIRECTIONAL ROADWAY
Side of the Roadway	<input type="text" value="South"/>	PM2.5 annual average
Distance from Roadway	<input type="text" value="1000"/> feet	0.023 ($\mu\text{g}/\text{m}^3$)
Annual Average Daily Traffic (ADT)	<input type="text" value="26,566"/>	Cancer Risk
		0.96 (per million)
		Data for Sonoma County based on meteorological data collected from Santa Rosa in 2005

Notes and References:

1. Emissions were developed using EMFAC2011 for fleet mix in 2014 assuming 10,000 AADT and includes impacts from diesel and gasoline vehicle exhaust, brake and tire wear, and resuspended dust.
2. Roadways were modeled using CALINE4 air dispersion model assuming a source length of one kilometer. Meteorological data used to estimate the screening values are noted at the bottom of the "Results" box.
3. Cancer risks were estimated for 70 year lifetime exposure starting in 2014 that includes sensitivity values for early life exposures and OEHHA toxicity values adopted in 2013.

APPENDIX E –
**NEW DEVELOPMENT
CHECKLIST**

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APPENDIX E: CAP NEW DEVELOPMENT CHECKLIST

To ensure new development projects are compliant with the City’s Climate Action Plan, the following checklist has been developed. This checklist should be filled out for each new project, subject to discretionary review, to allow new development to find a less than significant impact for greenhouse gas emissions in the environmental review process.

#	Description	Compliance			
		Complies	Does Not Comply	N/A	See Discussion
1.1.1	Comply with CALGreen Tier 1 standards*				
1.1.3	After 2020, all new development will utilize zero net electricity*				
1.3.1	Install real-time energy monitors to track energy use*				
1.4.2	Comply with the City's tree preservation ordinance*				
1.4.3	Provide public & private trees in compliance with the Zoning Code*				
1.5	Install new sidewalks and paving with high solar reflectivity materials*				
2.1.3	Pre-wire and pre-plumb for solar thermal or PV systems				
3.1.2	Support implementation of station plans and corridor plans				
3.2.1	Provide on-site services such as ATMs or dry cleaning to site users				
3.2.2	Improve non-vehicular network to promote walking, biking				
3.2.3	Support mixed-use, higher-density development near services				
3.3.1	Provide affordable housing near transit				
3.5.1	Unbundle parking from property cost				
3.6.1	Install calming features to improve ped/bike experience				
4.1.1	Implement the Bicycle and Pedestrian Master Plan				
4.1.2	Install bicycle parking consistent with regulations*				
4.1.3	Provide bicycle safety training to residents, employees, motorists				
4.2.2	Provide safe spaces to wait for bus arrival				

#	Description	Compliance			
		Complies	Does Not Comply	N/A	See Discussion
4.3.2	Work with large employers to provide rideshare programs				
4.3.3	Consider expanding employee programs promoting transit use				
4.3.4	Provide awards for employee use of alternative commute options				
4.3.5	Encourage new employers of 50+ to provide subsidized transit passes*				
4.3.7	Provide space for additional park-and-ride lots				
4.5.1	Include facilities for employees that promote telecommuting				
5.1.2	Install electric vehicle charging equipment				
5.2.1	Provide alternative fuels at new refueling stations*				
6.1.3	Increase diversion of construction waste*				
7.1.1	Reduce potable water use for outdoor landscaping*				
7.1.3	Use water meters which track real-time water use*				
7.3.2	Meet on-site meter separation requirements in locations with current or future recycled water capabilities*				
8.1.3	Establish community gardens and urban farms				
9.1.2	Provide outdoor electrical outlets for charging lawn equipment				
9.1.3	Install low water use landscapes*				
9.2.1	Minimize construction equipment idling time to 5 minutes or less*				
9.2.2	Maintain construction equipment per manufacturer's specs*				
9.2.3	Limit GHG construction equipment emissions by using electrified equipment or alternative fuels*				

**To be in compliance with the CAP, all measures denoted with an asterisk are required in all new development projects unless otherwise specified. If a project cannot meet one or more of the mandatory requirements, substitutions may be made from other measures listed at the discretion of the Community Development Director.*

DISCUSSION (PLEASE LIST POLICY #)

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