

Appendix C: Greenhouse Gas Emission Models (with and without TDM plan) and Greenhouse Gas Reduction Strategy Worksheet

295 E. Virginia Street Studio Project - Santa Clara County, Annual

**295 E. Virginia Street Studio Project
Santa Clara County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	301.00	Dwelling Unit	1.72	231,860.00	452

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2021
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage and building square footage is from plan set cover sheet. Population is based on 1.5 persons per unit assumed in Initial Study.

Construction Phase - construction schedule - applicant assumed a construction duration of 2 years

Vehicle Trips - Daily trip rate is based on daily trips estimated in traffic report (1,035 net new trips)/301 units

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	301,000.00	231,860.00
tblLandUse	LotAcreage	7.92	1.72
tblLandUse	Population	861.00	452.00

tblVehicleTrips	ST_TR	6.39	3.44
tblVehicleTrips	SU_TR	5.86	3.44
tblVehicleTrips	WD_TR	6.65	3.44

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	0.3992	2.6263	2.5565	5.8400e-003	0.2395	0.1235	0.3630	0.0669	0.1188	0.1857	0.0000	513.6846	513.6846	0.0561	0.0000	515.0866
2020	1.5028	2.3805	2.4663	5.9000e-003	0.2402	0.1042	0.3443	0.0645	0.1005	0.1650	0.0000	516.7806	516.7806	0.0524	0.0000	518.0912
2021	0.1634	8.1000e-004	1.4000e-003	0.0000	1.7000e-004	5.0000e-005	2.2000e-004	5.0000e-005	5.0000e-005	9.0000e-005	0.0000	0.2688	0.2688	1.0000e-005	0.0000	0.2691
Maximum	1.5028	2.6263	2.5565	5.9000e-003	0.2402	0.1235	0.3630	0.0669	0.1188	0.1857	0.0000	516.7806	516.7806	0.0561	0.0000	518.0912

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	0.3992	2.6263	2.5565	5.8400e-003	0.2395	0.1235	0.3630	0.0669	0.1188	0.1857	0.0000	513.6844	513.6844	0.0561	0.0000	515.0863
2020	1.5028	2.3805	2.4663	5.9000e-003	0.2402	0.1042	0.3443	0.0645	0.1005	0.1650	0.0000	516.7803	516.7803	0.0524	0.0000	518.0910
2021	0.1634	8.1000e-004	1.4000e-003	0.0000	1.7000e-004	5.0000e-005	2.2000e-004	5.0000e-005	5.0000e-005	9.0000e-005	0.0000	0.2688	0.2688	1.0000e-005	0.0000	0.2691

Maximum	1.5028	2.6263	2.5565	5.9000e-003	0.2402	0.1235	0.3630	0.0669	0.1188	0.1857	0.0000	516.7803	516.7803	0.0561	0.0000	518.0910
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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-2-2019	4-1-2019	0.6986	0.6986
2	4-2-2019	7-1-2019	0.7716	0.7716
3	7-2-2019	10-1-2019	0.7801	0.7801
4	10-2-2019	1-1-2020	0.7869	0.7869
5	1-2-2020	4-1-2020	0.7136	0.7136
6	4-2-2020	7-1-2020	0.7072	0.7072
7	7-2-2020	10-1-2020	0.7150	0.7150
8	10-2-2020	1-1-2021	1.7627	1.7627
9	1-2-2021	4-1-2021	0.1173	0.1173
		Highest	1.7627	1.7627

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	1.8311	0.0418	3.1962	2.0200e-003		0.1491	0.1491		0.1491	0.1491	13.7225	9.2873	23.0098	0.0256	9.0000e-004	23.9177
Energy	0.0140	0.1198	0.0510	7.6000e-004		9.6900e-003	9.6900e-003		9.6900e-003	9.6900e-003	0.0000	500.2675	500.2675	0.0190	5.9300e-003	502.5086
Mobile	0.2587	1.0810	3.0197	9.9400e-003	0.8889	8.6100e-003	0.8975	0.2380	8.0500e-003	0.2460	0.0000	909.2748	909.2748	0.0318	0.0000	910.0689
Waste						0.0000	0.0000		0.0000	0.0000	28.1061	0.0000	28.1061	1.6610	0.0000	69.6317
Water						0.0000	0.0000		0.0000	0.0000	6.2218	43.4593	49.6810	0.6410	0.0155	70.3238

Total	2.1039	1.2427	6.2669	0.0127	0.8889	0.1674	1.0563	0.2380	0.1668	0.4048	48.0504	1,462.2889	1,510.3393	2.3784	0.0223	1,576.4507
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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	1.8311	0.0418	3.1962	2.0200e-003		0.1491	0.1491		0.1491	0.1491	13.7225	9.2873	23.0098	0.0256	9.0000e-004	23.9177
Energy	0.0140	0.1198	0.0510	7.6000e-004		9.6900e-003	9.6900e-003		9.6900e-003	9.6900e-003	0.0000	500.2675	500.2675	0.0190	5.9300e-003	502.5086
Mobile	0.2587	1.0810	3.0197	9.9400e-003	0.8889	8.6100e-003	0.8975	0.2380	8.0500e-003	0.2460	0.0000	909.2748	909.2748	0.0318	0.0000	910.0689
Waste						0.0000	0.0000		0.0000	0.0000	28.1061	0.0000	28.1061	1.6610	0.0000	69.6317
Water						0.0000	0.0000		0.0000	0.0000	6.2218	43.4593	49.6810	0.6410	0.0155	70.3238
Total	2.1039	1.2427	6.2669	0.0127	0.8889	0.1674	1.0563	0.2380	0.1668	0.4048	48.0504	1,462.2889	1,510.3393	2.3784	0.0223	1,576.4507

	ROG	NOx	CO	SO2	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	1/2/2019	1/21/2019	5	20	
2	Site Preparation	Site Preparation	1/30/2019	1/31/2019	5	2	
3	Grading	Grading	2/1/2019	2/4/2019	5	4	
4	Building Construction	Building Construction	2/5/2019	12/10/2020	5	200	
5	Paving	Paving	12/11/2020	12/22/2020	5	10	

6	Architectural Coating	Architectural Coating	12/23/2020	1/2/2021	5	10
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Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 469,517; Residential Outdoor: 156,506; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

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	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	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	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	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	0.00	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		3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction		7	217.00	32.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving		5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating		1	43.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0161	0.1587	0.1043	1.7000e-004		9.0000e-003	9.0000e-003		8.4100e-003	8.4100e-003	0.0000	14.9913	14.9913	3.8200e-003	0.0000	15.0867
Total	0.0161	0.1587	0.1043	1.7000e-004		9.0000e-003	9.0000e-003		8.4100e-003	8.4100e-003	0.0000	14.9913	14.9913	3.8200e-003	0.0000	15.0867

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
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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	3.3000e-004	2.5000e-004	2.5400e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.6389	0.6389	2.0000e-005	0.0000	0.6393
Total	3.3000e-004	2.5000e-004	2.5400e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.6389	0.6389	2.0000e-005	0.0000	0.6393

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	0.0161	0.1587	0.1043	1.7000e-004		9.0000e-003	9.0000e-003		8.4100e-003	8.4100e-003	0.0000	14.9912	14.9912	3.8200e-003	0.0000	15.0867
Total	0.0161	0.1587	0.1043	1.7000e-004		9.0000e-003	9.0000e-003		8.4100e-003	8.4100e-003	0.0000	14.9912	14.9912	3.8200e-003	0.0000	15.0867

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	3.3000e-004	2.5000e-004	2.5400e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.6389	0.6389	2.0000e-005	0.0000	0.6393

Total	3.3000e-004	2.5000e-004	2.5400e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.6389	0.6389	2.0000e-005	0.0000	0.6393
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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					5.8000e-003	0.0000	5.8000e-003	2.9500e-003	0.0000	2.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7100e-003	0.0195	7.8900e-003	2.0000e-005		8.8000e-004	8.8000e-004		8.1000e-004	8.1000e-004	0.0000	1.5467	1.5467	4.9000e-004	0.0000	1.5589
Total	1.7100e-003	0.0195	7.8900e-003	2.0000e-005	5.8000e-003	8.8000e-004	6.6800e-003	2.9500e-003	8.1000e-004	3.7600e-003	0.0000	1.5467	1.5467	4.9000e-004	0.0000	1.5589

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	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0562	0.0562	0.0000	0.0000	0.0562
Total	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0562	0.0562	0.0000	0.0000	0.0562

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					5.8000e-003	0.0000	5.8000e-003	2.9500e-003	0.0000	2.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7100e-003	0.0195	7.8900e-003	2.0000e-005		8.8000e-004	8.8000e-004		8.1000e-004	8.1000e-004	0.0000	1.5467	1.5467	4.9000e-004	0.0000	1.5589
Total	1.7100e-003	0.0195	7.8900e-003	2.0000e-005	5.8000e-003	8.8000e-004	6.6800e-003	2.9500e-003	8.1000e-004	3.7600e-003	0.0000	1.5467	1.5467	4.9000e-004	0.0000	1.5589

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	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0562	0.0562	0.0000	0.0000	0.0562
Total	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0562	0.0562	0.0000	0.0000	0.0562

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					4.9100e-003	0.0000	4.9100e-003	2.5300e-003	0.0000	2.5300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4200e-003	0.0160	6.6100e-003	1.0000e-005		7.4000e-004	7.4000e-004		6.8000e-004	6.8000e-004	0.0000	1.2668	1.2668	4.0000e-004	0.0000	1.2768
Total	1.4200e-003	0.0160	6.6100e-003	1.0000e-005	4.9100e-003	7.4000e-004	5.6500e-003	2.5300e-003	6.8000e-004	3.2100e-003	0.0000	1.2668	1.2668	4.0000e-004	0.0000	1.2768

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	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0562	0.0562	0.0000	0.0000	0.0562
Total	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0562	0.0562	0.0000	0.0000	0.0562

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.9100e-003	0.0000	4.9100e-003	2.5300e-003	0.0000	2.5300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4200e-003	0.0160	6.6100e-003	1.0000e-005		7.4000e-004	7.4000e-004		6.8000e-004	6.8000e-004	0.0000	1.2668	1.2668	4.0000e-004	0.0000	1.2768
Total	1.4200e-003	0.0160	6.6100e-003	1.0000e-005	4.9100e-003	7.4000e-004	5.6500e-003	2.5300e-003	6.8000e-004	3.2100e-003	0.0000	1.2668	1.2668	4.0000e-004	0.0000	1.2768

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	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0562	0.0562	0.0000	0.0000	0.0562
Total	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0562	0.0562	0.0000	0.0000	0.0562

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	0.2681	1.8857	1.5915	2.6000e-003		0.1081	0.1081		0.1044	0.1044	0.0000	216.0249	216.0249	0.0415	0.0000	217.0631
Total	0.2681	1.8857	1.5915	2.6000e-003		0.1081	0.1081		0.1044	0.1044	0.0000	216.0249	216.0249	0.0415	0.0000	217.0631

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
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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	0.0185	0.4768	0.1280	1.0400e-003	0.0248	3.4300e-003	0.0283	7.1800e-003	3.2800e-003	0.0105	0.0000	99.3284	99.3284	4.9300e-003	0.0000	99.4516
Worker	0.0930	0.0693	0.7153	1.9900e-003	0.2031	1.3400e-003	0.2044	0.0540	1.2400e-003	0.0553	0.0000	179.7755	179.7755	4.8900e-003	0.0000	179.8978
Total	0.1115	0.5461	0.8433	3.0300e-003	0.2279	4.7700e-003	0.2327	0.0612	4.5200e-003	0.0657	0.0000	279.1038	279.1038	9.8200e-003	0.0000	279.3494

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	0.2681	1.8857	1.5915	2.6000e-003		0.1081	0.1081		0.1044	0.1044	0.0000	216.0246	216.0246	0.0415	0.0000	217.0628
Total	0.2681	1.8857	1.5915	2.6000e-003		0.1081	0.1081		0.1044	0.1044	0.0000	216.0246	216.0246	0.0415	0.0000	217.0628

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	0.0185	0.4768	0.1280	1.0400e-003	0.0248	3.4300e-003	0.0283	7.1800e-003	3.2800e-003	0.0105	0.0000	99.3284	99.3284	4.9300e-003	0.0000	99.4516
Worker	0.0930	0.0693	0.7153	1.9900e-003	0.2031	1.3400e-003	0.2044	0.0540	1.2400e-003	0.0553	0.0000	179.7755	179.7755	4.8900e-003	0.0000	179.8978

Total	0.1115	0.5461	0.8433	3.0300e-003	0.2279	4.7700e-003	0.2327	0.0612	4.5200e-003	0.0657	0.0000	279.1038	279.1038	9.8200e-003	0.0000	279.3494
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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	0.2508	1.8264	1.6287	2.7200e-003		0.0983	0.0983		0.0950	0.0950	0.0000	224.2045	224.2045	0.0416	0.0000	225.2451
Total	0.2508	1.8264	1.6287	2.7200e-003		0.0983	0.0983		0.0950	0.0950	0.0000	224.2045	224.2045	0.0416	0.0000	225.2451

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	0.0157	0.4500	0.1199	1.0800e-003	0.0260	2.2300e-003	0.0282	7.5200e-003	2.1300e-003	9.6500e-003	0.0000	103.3222	103.3222	4.7400e-003	0.0000	103.4406
Worker	0.0890	0.0640	0.6707	2.0200e-003	0.2126	1.3700e-003	0.2139	0.0565	1.2600e-003	0.0578	0.0000	182.2767	182.2767	4.4700e-003	0.0000	182.3884
Total	0.1047	0.5140	0.7905	3.1000e-003	0.2386	3.6000e-003	0.2422	0.0641	3.3900e-003	0.0674	0.0000	285.5989	285.5989	9.2100e-003	0.0000	285.8291

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	0.2508	1.8263	1.6287	2.7200e-003		0.0983	0.0983		0.0950	0.0950	0.0000	224.2043	224.2043	0.0416	0.0000	225.2448
Total	0.2508	1.8263	1.6287	2.7200e-003		0.0983	0.0983		0.0950	0.0950	0.0000	224.2043	224.2043	0.0416	0.0000	225.2448

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	0.0157	0.4500	0.1199	1.0800e-003	0.0260	2.2300e-003	0.0282	7.5200e-003	2.1300e-003	9.6500e-003	0.0000	103.3222	103.3222	4.7400e-003	0.0000	103.4406
Worker	0.0890	0.0640	0.6707	2.0200e-003	0.2126	1.3700e-003	0.2139	0.0565	1.2600e-003	0.0578	0.0000	182.2767	182.2767	4.4700e-003	0.0000	182.3884
Total	0.1047	0.5140	0.7905	3.1000e-003	0.2386	3.6000e-003	0.2422	0.0641	3.3900e-003	0.0674	0.0000	285.5989	285.5989	9.2100e-003	0.0000	285.8291

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	3.3600e-003	0.0338	0.0355	5.0000e-005		1.8800e-003	1.8800e-003		1.7300e-003	1.7300e-003	0.0000	4.7063	4.7063	1.4900e-003	0.0000	4.7436
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.3600e-003	0.0338	0.0355	5.0000e-005		1.8800e-003	1.8800e-003		1.7300e-003	1.7300e-003	0.0000	4.7063	4.7063	1.4900e-003	0.0000	4.7436

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	1.7000e-004	1.2000e-004	1.3000e-003	0.0000	4.1000e-004	0.0000	4.2000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3537	0.3537	1.0000e-005	0.0000	0.3539
Total	1.7000e-004	1.2000e-004	1.3000e-003	0.0000	4.1000e-004	0.0000	4.2000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3537	0.3537	1.0000e-005	0.0000	0.3539

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	3.3600e-003	0.0338	0.0355	5.0000e-005		1.8800e-003	1.8800e-003		1.7300e-003	1.7300e-003	0.0000	4.7063	4.7063	1.4900e-003	0.0000	4.7436
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.3600e-003	0.0338	0.0355	5.0000e-005		1.8800e-003	1.8800e-003		1.7300e-003	1.7300e-003	0.0000	4.7063	4.7063	1.4900e-003	0.0000	4.7436

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	1.7000e-004	1.2000e-004	1.3000e-003	0.0000	4.1000e-004	0.0000	4.2000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3537	0.3537	1.0000e-005	0.0000	0.3539
Total	1.7000e-004	1.2000e-004	1.3000e-003	0.0000	4.1000e-004	0.0000	4.2000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3537	0.3537	1.0000e-005	0.0000	0.3539

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	1.1425					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.5000e-004	5.8900e-003	6.4100e-003	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	0.8936	0.8936	7.0000e-005	0.0000	0.8954
Total	1.1434	5.8900e-003	6.4100e-003	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	0.8936	0.8936	7.0000e-005	0.0000	0.8954

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
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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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.6000e-004	3.7700e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0236	1.0236	3.0000e-005	0.0000	1.0243
Total	5.0000e-004	3.6000e-004	3.7700e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0236	1.0236	3.0000e-005	0.0000	1.0243

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	1.1425					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.5000e-004	5.8900e-003	6.4100e-003	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	0.8936	0.8936	7.0000e-005	0.0000	0.8954
Total	1.1434	5.8900e-003	6.4100e-003	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	0.8936	0.8936	7.0000e-005	0.0000	0.8954

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.6000e-004	3.7700e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0236	1.0236	3.0000e-005	0.0000	1.0243

Total	5.0000e-004	3.6000e-004	3.7700e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0236	1.0236	3.0000e-005	0.0000	1.0243
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3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1632					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1000e-004	7.6000e-004	9.1000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.1277	0.1277	1.0000e-005	0.0000	0.1279
Total	0.1633	7.6000e-004	9.1000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.1277	0.1277	1.0000e-005	0.0000	0.1279

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	5.0000e-005	4.9000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1412	0.1412	0.0000	0.0000	0.1412
Total	7.0000e-005	5.0000e-005	4.9000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1412	0.1412	0.0000	0.0000	0.1412

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	0.1632					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1000e-004	7.6000e-004	9.1000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.1277	0.1277	1.0000e-005	0.0000	0.1279
Total	0.1633	7.6000e-004	9.1000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.1277	0.1277	1.0000e-005	0.0000	0.1279

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	5.0000e-005	4.9000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1412	0.1412	0.0000	0.0000	0.1412
Total	7.0000e-005	5.0000e-005	4.9000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1412	0.1412	0.0000	0.0000	0.1412

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	0.2587	1.0810	3.0197	9.9400e-003	0.8889	8.6100e-003	0.8975	0.2380	8.0500e-003	0.2460	0.0000	909.2748	909.2748	0.0318	0.0000	910.0689
Unmitigated	0.2587	1.0810	3.0197	9.9400e-003	0.8889	8.6100e-003	0.8975	0.2380	8.0500e-003	0.2460	0.0000	909.2748	909.2748	0.0318	0.0000	910.0689

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,034.99	1,034.99	1034.99	2,390,417	2,390,417
Total	1,034.99	1,034.99	1,034.99	2,390,417	2,390,417

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.607897	0.037434	0.184004	0.107261	0.014919	0.004991	0.012447	0.020659	0.002115	0.001554	0.005334	0.000623	0.000761

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	361.4963	361.4963	0.0164	3.3800e-003	362.9127
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	361.4963	361.4963	0.0164	3.3800e-003	362.9127
NaturalGas Mitigated	0.0140	0.1198	0.0510	7.6000e-004		9.6900e-003	9.6900e-003		9.6900e-003	9.6900e-003	0.0000	138.7712	138.7712	2.6600e-003	2.5400e-003	139.5959
NaturalGas Unmitigated	0.0140	0.1198	0.0510	7.6000e-004		9.6900e-003	9.6900e-003		9.6900e-003	9.6900e-003	0.0000	138.7712	138.7712	2.6600e-003	2.5400e-003	139.5959

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	2.60047e+006	0.0140	0.1198	0.0510	7.6000e-004		9.6900e-003	9.6900e-003		9.6900e-003	9.6900e-003	0.0000	138.7712	138.7712	2.6600e-003	2.5400e-003	139.5959
Total		0.0140	0.1198	0.0510	7.6000e-004		9.6900e-003	9.6900e-003		9.6900e-003	9.6900e-003	0.0000	138.7712	138.7712	2.6600e-003	2.5400e-003	139.5959

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
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Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.60047e+006	0.0140	0.1198	0.0510	7.6000e-004		9.6900e-003	9.6900e-003		9.6900e-003	9.6900e-003	0.0000	138.7712	138.7712	2.6600e-003	2.5400e-003	139.5959
Total		0.0140	0.1198	0.0510	7.6000e-004		9.6900e-003	9.6900e-003		9.6900e-003	9.6900e-003	0.0000	138.7712	138.7712	2.6600e-003	2.5400e-003	139.5959

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.24263e+006	361.4963	0.0164	3.3800e-003	362.9127
Total		361.4963	0.0164	3.3800e-003	362.9127

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.24263e+006	361.4963	0.0164	3.3800e-003	362.9127
Total		361.4963	0.0164	3.3800e-003	362.9127

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	1.8311	0.0418	3.1962	2.0200e-003		0.1491	0.1491		0.1491	0.1491	13.7225	9.2873	23.0098	0.0256	9.0000e-004	23.9177
Unmitigated	1.8311	0.0418	3.1962	2.0200e-003		0.1491	0.1491		0.1491	0.1491	13.7225	9.2873	23.0098	0.0256	9.0000e-004	23.9177

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	0.1632					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.6945	0.0160	0.9563	1.9000e-003		0.1367	0.1367		0.1367	0.1367	13.7225	5.6365	19.3590	0.0221	9.0000e-004	20.1785
Landscaping	0.0679	0.0259	2.2398	1.2000e-004		0.0124	0.0124		0.0124	0.0124	0.0000	3.6508	3.6508	3.5400e-003	0.0000	3.7392
Total	1.8311	0.0418	3.1962	2.0200e-003		0.1491	0.1491		0.1491	0.1491	13.7225	9.2873	23.0098	0.0256	9.0000e-004	23.9177

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	0.1632					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.6945	0.0160	0.9563	1.9000e-003		0.1367	0.1367		0.1367	0.1367	13.7225	5.6365	19.3590	0.0221	9.0000e-004	20.1785
Landscaping	0.0679	0.0259	2.2398	1.2000e-004		0.0124	0.0124		0.0124	0.0124	0.0000	3.6508	3.6508	3.5400e-003	0.0000	3.7392
Total	1.8311	0.0418	3.1962	2.0200e-003		0.1491	0.1491		0.1491	0.1491	13.7225	9.2873	23.0098	0.0256	9.0000e-004	23.9177

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	49.6810	0.6410	0.0155	70.3238
Unmitigated	49.6810	0.6410	0.0155	70.3238

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	19.6114 / 12.3637	49.6810	0.6410	0.0155	70.3238
Total		49.6810	0.6410	0.0155	70.3238

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	19.6114 / 12.3637	49.6810	0.6410	0.0155	70.3238
Total		49.6810	0.6410	0.0155	70.3238

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	28.1061	1.6610	0.0000	69.6317
Unmitigated	28.1061	1.6610	0.0000	69.6317

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	138.46	28.1061	1.6610	0.0000	69.6317
Total		28.1061	1.6610	0.0000	69.6317

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	138.46	28.1061	1.6610	0.0000	69.6317
Total		28.1061	1.6610	0.0000	69.6317

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

295 E. Virginia Street Studio Project - Santa Clara County, Annual

295 E. Virginia Street Studio Project
Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	301.00	Dwelling Unit	1.72	231,860.00	452

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4	Operational Year	2021		
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage and building square footage is from plan set cover sheet. Population is based on 1.5 persons per unit assumed in Initial Study.

Construction Phase - construction schedule - applicant assumed a construction duration of 2 years

Vehicle Trips - Daily trip rate is based on daily trips estimated in traffic report (1,035 net new trips)/301 units with a 25 percent reduction for TDM plan.

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblLandUse	LandUseSquareFeet	301,000.00	231,860.00
tblLandUse	LotAcreage	7.92	1.72
tblLandUse	Population	861.00	452.00

tblVehicleTrips	ST_TR	6.39	2.58
tblVehicleTrips	SU_TR	5.86	2.58
tblVehicleTrips	WD_TR	6.65	2.58

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	0.3992	2.6263	2.5565	5.8400e-003	0.2395	0.1235	0.3630	0.0669	0.1188	0.1857	0.0000	513.6846	513.6846	0.0561	0.0000	515.0866
2020	1.5028	2.3805	2.4663	5.9000e-003	0.2402	0.1042	0.3443	0.0645	0.1005	0.1650	0.0000	516.7806	516.7806	0.0524	0.0000	518.0912
2021	0.1634	8.1000e-004	1.4000e-003	0.0000	1.7000e-004	5.0000e-005	2.2000e-004	5.0000e-005	5.0000e-005	9.0000e-005	0.0000	0.2688	0.2688	1.0000e-005	0.0000	0.2691
Maximum	1.5028	2.6263	2.5565	5.9000e-003	0.2402	0.1235	0.3630	0.0669	0.1188	0.1857	0.0000	516.7806	516.7806	0.0561	0.0000	518.0912

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	0.3992	2.6263	2.5565	5.8400e-003	0.2395	0.1235	0.3630	0.0669	0.1188	0.1857	0.0000	513.6844	513.6844	0.0561	0.0000	515.0863
2020	1.5028	2.3805	2.4663	5.9000e-003	0.2402	0.1042	0.3443	0.0645	0.1005	0.1650	0.0000	516.7803	516.7803	0.0524	0.0000	518.0910
2021	0.1634	8.1000e-004	1.4000e-003	0.0000	1.7000e-004	5.0000e-005	2.2000e-004	5.0000e-005	5.0000e-005	9.0000e-005	0.0000	0.2688	0.2688	1.0000e-005	0.0000	0.2691

Maximum	1.5028	2.6263	2.5565	5.9000e-003	0.2402	0.1235	0.3630	0.0669	0.1188	0.1857	0.0000	516.7803	516.7803	0.0561	0.0000	518.0910
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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-2-2019	4-1-2019	0.6986	0.6986
2	4-2-2019	7-1-2019	0.7716	0.7716
3	7-2-2019	10-1-2019	0.7801	0.7801
4	10-2-2019	1-1-2020	0.7869	0.7869
5	1-2-2020	4-1-2020	0.7136	0.7136
6	4-2-2020	7-1-2020	0.7072	0.7072
7	7-2-2020	10-1-2020	0.7150	0.7150
8	10-2-2020	1-1-2021	1.7627	1.7627
9	1-2-2021	4-1-2021	0.1173	0.1173
		Highest	1.7627	1.7627

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	1.8311	0.0418	3.1962	2.0200e-003		0.1491	0.1491		0.1491	0.1491	13.7225	9.2873	23.0098	0.0256	9.0000e-004	23.9177
Energy	0.0140	0.1198	0.0510	7.6000e-004		9.6900e-003	9.6900e-003		9.6900e-003	9.6900e-003	0.0000	500.2675	500.2675	0.0190	5.9300e-003	502.5086
Mobile	0.1941	0.8108	2.2648	7.4500e-003	0.6667	6.4600e-003	0.6731	0.1785	6.0400e-003	0.1845	0.0000	681.9627	681.9627	0.0238	0.0000	682.5583
Waste						0.0000	0.0000		0.0000	0.0000	28.1061	0.0000	28.1061	1.6610	0.0000	69.6317
Water						0.0000	0.0000		0.0000	0.0000	6.2218	43.4593	49.6810	0.6410	0.0155	70.3238

Total	2.0392	0.9724	5.5120	0.0102	0.6667	0.1652	0.8319	0.1785	0.1648	0.3433	48.0504	1,234.9768	1,283.0272	2.3704	0.0223	1,348.9401
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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	1.8311	0.0418	3.1962	2.0200e-003		0.1491	0.1491		0.1491	0.1491	13.7225	9.2873	23.0098	0.0256	9.0000e-004	23.9177
Energy	0.0140	0.1198	0.0510	7.6000e-004		9.6900e-003	9.6900e-003		9.6900e-003	9.6900e-003	0.0000	500.2675	500.2675	0.0190	5.9300e-003	502.5086
Mobile	0.1941	0.8108	2.2648	7.4500e-003	0.6667	6.4600e-003	0.6731	0.1785	6.0400e-003	0.1845	0.0000	681.9627	681.9627	0.0238	0.0000	682.5583
Waste						0.0000	0.0000		0.0000	0.0000	28.1061	0.0000	28.1061	1.6610	0.0000	69.6317
Water						0.0000	0.0000		0.0000	0.0000	6.2218	43.4593	49.6810	0.6410	0.0155	70.3238
Total	2.0392	0.9724	5.5120	0.0102	0.6667	0.1652	0.8319	0.1785	0.1648	0.3433	48.0504	1,234.9768	1,283.0272	2.3704	0.0223	1,348.9401

	ROG	NOx	CO	SO2	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	1/2/2019	1/21/2019	5	20	
2	Site Preparation	Site Preparation	1/30/2019	1/31/2019	5	2	
3	Grading	Grading	2/1/2019	2/4/2019	5	4	
4	Building Construction	Building Construction	2/5/2019	12/10/2020	5	200	
5	Paving	Paving	12/11/2020	12/22/2020	5	10	

6	Architectural Coating	Architectural Coating	12/23/2020	1/2/2021	5	10
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Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 469,517; Residential Outdoor: 156,506; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

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	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	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	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	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	0.00	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		3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction		7	217.00	32.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving		5	13.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating		1	43.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0161	0.1587	0.1043	1.7000e-004		9.0000e-003	9.0000e-003		8.4100e-003	8.4100e-003	0.0000	14.9913	14.9913	3.8200e-003	0.0000	15.0867
Total	0.0161	0.1587	0.1043	1.7000e-004		9.0000e-003	9.0000e-003		8.4100e-003	8.4100e-003	0.0000	14.9913	14.9913	3.8200e-003	0.0000	15.0867

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
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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	3.3000e-004	2.5000e-004	2.5400e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.6389	0.6389	2.0000e-005	0.0000	0.6393
Total	3.3000e-004	2.5000e-004	2.5400e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.6389	0.6389	2.0000e-005	0.0000	0.6393

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	0.0161	0.1587	0.1043	1.7000e-004		9.0000e-003	9.0000e-003		8.4100e-003	8.4100e-003	0.0000	14.9912	14.9912	3.8200e-003	0.0000	15.0867
Total	0.0161	0.1587	0.1043	1.7000e-004		9.0000e-003	9.0000e-003		8.4100e-003	8.4100e-003	0.0000	14.9912	14.9912	3.8200e-003	0.0000	15.0867

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	3.3000e-004	2.5000e-004	2.5400e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.6389	0.6389	2.0000e-005	0.0000	0.6393

Total	3.3000e-004	2.5000e-004	2.5400e-003	1.0000e-005	7.2000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.6389	0.6389	2.0000e-005	0.0000	0.6393
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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					5.8000e-003	0.0000	5.8000e-003	2.9500e-003	0.0000	2.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7100e-003	0.0195	7.8900e-003	2.0000e-005		8.8000e-004	8.8000e-004		8.1000e-004	8.1000e-004	0.0000	1.5467	1.5467	4.9000e-004	0.0000	1.5589
Total	1.7100e-003	0.0195	7.8900e-003	2.0000e-005	5.8000e-003	8.8000e-004	6.6800e-003	2.9500e-003	8.1000e-004	3.7600e-003	0.0000	1.5467	1.5467	4.9000e-004	0.0000	1.5589

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	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0562	0.0562	0.0000	0.0000	0.0562
Total	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0562	0.0562	0.0000	0.0000	0.0562

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					5.8000e-003	0.0000	5.8000e-003	2.9500e-003	0.0000	2.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7100e-003	0.0195	7.8900e-003	2.0000e-005		8.8000e-004	8.8000e-004		8.1000e-004	8.1000e-004	0.0000	1.5467	1.5467	4.9000e-004	0.0000	1.5589
Total	1.7100e-003	0.0195	7.8900e-003	2.0000e-005	5.8000e-003	8.8000e-004	6.6800e-003	2.9500e-003	8.1000e-004	3.7600e-003	0.0000	1.5467	1.5467	4.9000e-004	0.0000	1.5589

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	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0562	0.0562	0.0000	0.0000	0.0562
Total	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0562	0.0562	0.0000	0.0000	0.0562

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					4.9100e-003	0.0000	4.9100e-003	2.5300e-003	0.0000	2.5300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4200e-003	0.0160	6.6100e-003	1.0000e-005		7.4000e-004	7.4000e-004		6.8000e-004	6.8000e-004	0.0000	1.2668	1.2668	4.0000e-004	0.0000	1.2768
Total	1.4200e-003	0.0160	6.6100e-003	1.0000e-005	4.9100e-003	7.4000e-004	5.6500e-003	2.5300e-003	6.8000e-004	3.2100e-003	0.0000	1.2668	1.2668	4.0000e-004	0.0000	1.2768

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	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0562	0.0562	0.0000	0.0000	0.0562
Total	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0562	0.0562	0.0000	0.0000	0.0562

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.9100e-003	0.0000	4.9100e-003	2.5300e-003	0.0000	2.5300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4200e-003	0.0160	6.6100e-003	1.0000e-005		7.4000e-004	7.4000e-004		6.8000e-004	6.8000e-004	0.0000	1.2668	1.2668	4.0000e-004	0.0000	1.2768
Total	1.4200e-003	0.0160	6.6100e-003	1.0000e-005	4.9100e-003	7.4000e-004	5.6500e-003	2.5300e-003	6.8000e-004	3.2100e-003	0.0000	1.2668	1.2668	4.0000e-004	0.0000	1.2768

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	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0562	0.0562	0.0000	0.0000	0.0562
Total	3.0000e-005	2.0000e-005	2.2000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0562	0.0562	0.0000	0.0000	0.0562

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	0.2681	1.8857	1.5915	2.6000e-003		0.1081	0.1081		0.1044	0.1044	0.0000	216.0249	216.0249	0.0415	0.0000	217.0631
Total	0.2681	1.8857	1.5915	2.6000e-003		0.1081	0.1081		0.1044	0.1044	0.0000	216.0249	216.0249	0.0415	0.0000	217.0631

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
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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	0.0185	0.4768	0.1280	1.0400e-003	0.0248	3.4300e-003	0.0283	7.1800e-003	3.2800e-003	0.0105	0.0000	99.3284	99.3284	4.9300e-003	0.0000	99.4516
Worker	0.0930	0.0693	0.7153	1.9900e-003	0.2031	1.3400e-003	0.2044	0.0540	1.2400e-003	0.0553	0.0000	179.7755	179.7755	4.8900e-003	0.0000	179.8978
Total	0.1115	0.5461	0.8433	3.0300e-003	0.2279	4.7700e-003	0.2327	0.0612	4.5200e-003	0.0657	0.0000	279.1038	279.1038	9.8200e-003	0.0000	279.3494

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	0.2681	1.8857	1.5915	2.6000e-003		0.1081	0.1081		0.1044	0.1044	0.0000	216.0246	216.0246	0.0415	0.0000	217.0628
Total	0.2681	1.8857	1.5915	2.6000e-003		0.1081	0.1081		0.1044	0.1044	0.0000	216.0246	216.0246	0.0415	0.0000	217.0628

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	0.0185	0.4768	0.1280	1.0400e-003	0.0248	3.4300e-003	0.0283	7.1800e-003	3.2800e-003	0.0105	0.0000	99.3284	99.3284	4.9300e-003	0.0000	99.4516
Worker	0.0930	0.0693	0.7153	1.9900e-003	0.2031	1.3400e-003	0.2044	0.0540	1.2400e-003	0.0553	0.0000	179.7755	179.7755	4.8900e-003	0.0000	179.8978

Total	0.1115	0.5461	0.8433	3.0300e-003	0.2279	4.7700e-003	0.2327	0.0612	4.5200e-003	0.0657	0.0000	279.1038	279.1038	9.8200e-003	0.0000	279.3494
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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	0.2508	1.8264	1.6287	2.7200e-003		0.0983	0.0983		0.0950	0.0950	0.0000	224.2045	224.2045	0.0416	0.0000	225.2451
Total	0.2508	1.8264	1.6287	2.7200e-003		0.0983	0.0983		0.0950	0.0950	0.0000	224.2045	224.2045	0.0416	0.0000	225.2451

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	0.0157	0.4500	0.1199	1.0800e-003	0.0260	2.2300e-003	0.0282	7.5200e-003	2.1300e-003	9.6500e-003	0.0000	103.3222	103.3222	4.7400e-003	0.0000	103.4406
Worker	0.0890	0.0640	0.6707	2.0200e-003	0.2126	1.3700e-003	0.2139	0.0565	1.2600e-003	0.0578	0.0000	182.2767	182.2767	4.4700e-003	0.0000	182.3884
Total	0.1047	0.5140	0.7905	3.1000e-003	0.2386	3.6000e-003	0.2422	0.0641	3.3900e-003	0.0674	0.0000	285.5989	285.5989	9.2100e-003	0.0000	285.8291

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	0.2508	1.8263	1.6287	2.7200e-003		0.0983	0.0983		0.0950	0.0950	0.0000	224.2043	224.2043	0.0416	0.0000	225.2448
Total	0.2508	1.8263	1.6287	2.7200e-003		0.0983	0.0983		0.0950	0.0950	0.0000	224.2043	224.2043	0.0416	0.0000	225.2448

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	0.0157	0.4500	0.1199	1.0800e-003	0.0260	2.2300e-003	0.0282	7.5200e-003	2.1300e-003	9.6500e-003	0.0000	103.3222	103.3222	4.7400e-003	0.0000	103.4406
Worker	0.0890	0.0640	0.6707	2.0200e-003	0.2126	1.3700e-003	0.2139	0.0565	1.2600e-003	0.0578	0.0000	182.2767	182.2767	4.4700e-003	0.0000	182.3884
Total	0.1047	0.5140	0.7905	3.1000e-003	0.2386	3.6000e-003	0.2422	0.0641	3.3900e-003	0.0674	0.0000	285.5989	285.5989	9.2100e-003	0.0000	285.8291

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	3.3600e-003	0.0338	0.0355	5.0000e-005		1.8800e-003	1.8800e-003		1.7300e-003	1.7300e-003	0.0000	4.7063	4.7063	1.4900e-003	0.0000	4.7436
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.3600e-003	0.0338	0.0355	5.0000e-005		1.8800e-003	1.8800e-003		1.7300e-003	1.7300e-003	0.0000	4.7063	4.7063	1.4900e-003	0.0000	4.7436

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	1.7000e-004	1.2000e-004	1.3000e-003	0.0000	4.1000e-004	0.0000	4.2000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3537	0.3537	1.0000e-005	0.0000	0.3539
Total	1.7000e-004	1.2000e-004	1.3000e-003	0.0000	4.1000e-004	0.0000	4.2000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3537	0.3537	1.0000e-005	0.0000	0.3539

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	3.3600e-003	0.0338	0.0355	5.0000e-005		1.8800e-003	1.8800e-003		1.7300e-003	1.7300e-003	0.0000	4.7063	4.7063	1.4900e-003	0.0000	4.7436
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.3600e-003	0.0338	0.0355	5.0000e-005		1.8800e-003	1.8800e-003		1.7300e-003	1.7300e-003	0.0000	4.7063	4.7063	1.4900e-003	0.0000	4.7436

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	1.7000e-004	1.2000e-004	1.3000e-003	0.0000	4.1000e-004	0.0000	4.2000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3537	0.3537	1.0000e-005	0.0000	0.3539
Total	1.7000e-004	1.2000e-004	1.3000e-003	0.0000	4.1000e-004	0.0000	4.2000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3537	0.3537	1.0000e-005	0.0000	0.3539

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	1.1425					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.5000e-004	5.8900e-003	6.4100e-003	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	0.8936	0.8936	7.0000e-005	0.0000	0.8954
Total	1.1434	5.8900e-003	6.4100e-003	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	0.8936	0.8936	7.0000e-005	0.0000	0.8954

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
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Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.6000e-004	3.7700e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0236	1.0236	3.0000e-005	0.0000	1.0243
Total	5.0000e-004	3.6000e-004	3.7700e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0236	1.0236	3.0000e-005	0.0000	1.0243

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	1.1425					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.5000e-004	5.8900e-003	6.4100e-003	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	0.8936	0.8936	7.0000e-005	0.0000	0.8954
Total	1.1434	5.8900e-003	6.4100e-003	1.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	0.8936	0.8936	7.0000e-005	0.0000	0.8954

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	3.6000e-004	3.7700e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0236	1.0236	3.0000e-005	0.0000	1.0243

Total	5.0000e-004	3.6000e-004	3.7700e-003	1.0000e-005	1.1900e-003	1.0000e-005	1.2000e-003	3.2000e-004	1.0000e-005	3.2000e-004	0.0000	1.0236	1.0236	3.0000e-005	0.0000	1.0243
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3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1632					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1000e-004	7.6000e-004	9.1000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.1277	0.1277	1.0000e-005	0.0000	0.1279
Total	0.1633	7.6000e-004	9.1000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.1277	0.1277	1.0000e-005	0.0000	0.1279

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	5.0000e-005	4.9000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1412	0.1412	0.0000	0.0000	0.1412
Total	7.0000e-005	5.0000e-005	4.9000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1412	0.1412	0.0000	0.0000	0.1412

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	0.1632					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.1000e-004	7.6000e-004	9.1000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.1277	0.1277	1.0000e-005	0.0000	0.1279
Total	0.1633	7.6000e-004	9.1000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.1277	0.1277	1.0000e-005	0.0000	0.1279

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	5.0000e-005	4.9000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1412	0.1412	0.0000	0.0000	0.1412
Total	7.0000e-005	5.0000e-005	4.9000e-004	0.0000	1.7000e-004	0.0000	1.7000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1412	0.1412	0.0000	0.0000	0.1412

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	0.1941	0.8108	2.2648	7.4500e-003	0.6667	6.4600e-003	0.6731	0.1785	6.0400e-003	0.1845	0.0000	681.9627	681.9627	0.0238	0.0000	682.5583
Unmitigated	0.1941	0.8108	2.2648	7.4500e-003	0.6667	6.4600e-003	0.6731	0.1785	6.0400e-003	0.1845	0.0000	681.9627	681.9627	0.0238	0.0000	682.5583

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	776.25	776.25	776.25	1,792,830	1,792,830
Total	776.25	776.25	776.25	1,792,830	1,792,830

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.607897	0.037434	0.184004	0.107261	0.014919	0.004991	0.012447	0.020659	0.002115	0.001554	0.005334	0.000623	0.000761

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	361.4963	361.4963	0.0164	3.3800e-003	362.9127
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	361.4963	361.4963	0.0164	3.3800e-003	362.9127
NaturalGas Mitigated	0.0140	0.1198	0.0510	7.6000e-004		9.6900e-003	9.6900e-003		9.6900e-003	9.6900e-003	0.0000	138.7712	138.7712	2.6600e-003	2.5400e-003	139.5959
NaturalGas Unmitigated	0.0140	0.1198	0.0510	7.6000e-004		9.6900e-003	9.6900e-003		9.6900e-003	9.6900e-003	0.0000	138.7712	138.7712	2.6600e-003	2.5400e-003	139.5959

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	2.60047e+006	0.0140	0.1198	0.0510	7.6000e-004		9.6900e-003	9.6900e-003		9.6900e-003	9.6900e-003	0.0000	138.7712	138.7712	2.6600e-003	2.5400e-003	139.5959
Total		0.0140	0.1198	0.0510	7.6000e-004		9.6900e-003	9.6900e-003		9.6900e-003	9.6900e-003	0.0000	138.7712	138.7712	2.6600e-003	2.5400e-003	139.5959

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
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Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	2.60047e+006	0.0140	0.1198	0.0510	7.6000e-004		9.6900e-003	9.6900e-003		9.6900e-003	9.6900e-003	0.0000	138.7712	138.7712	2.6600e-003	2.5400e-003	139.5959
Total		0.0140	0.1198	0.0510	7.6000e-004		9.6900e-003	9.6900e-003		9.6900e-003	9.6900e-003	0.0000	138.7712	138.7712	2.6600e-003	2.5400e-003	139.5959

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.24263e+006	361.4963	0.0164	3.3800e-003	362.9127
Total		361.4963	0.0164	3.3800e-003	362.9127

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.24263e+006	361.4963	0.0164	3.3800e-003	362.9127
Total		361.4963	0.0164	3.3800e-003	362.9127

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	1.8311	0.0418	3.1962	2.0200e-003		0.1491	0.1491		0.1491	0.1491	13.7225	9.2873	23.0098	0.0256	9.0000e-004	23.9177
Unmitigated	1.8311	0.0418	3.1962	2.0200e-003		0.1491	0.1491		0.1491	0.1491	13.7225	9.2873	23.0098	0.0256	9.0000e-004	23.9177

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	0.1632					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.6945	0.0160	0.9563	1.9000e-003		0.1367	0.1367		0.1367	0.1367	13.7225	5.6365	19.3590	0.0221	9.0000e-004	20.1785
Landscaping	0.0679	0.0259	2.2398	1.2000e-004		0.0124	0.0124		0.0124	0.0124	0.0000	3.6508	3.6508	3.5400e-003	0.0000	3.7392
Total	1.8311	0.0418	3.1962	2.0200e-003		0.1491	0.1491		0.1491	0.1491	13.7225	9.2873	23.0098	0.0256	9.0000e-004	23.9177

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	0.1632					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.9055					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.6945	0.0160	0.9563	1.9000e-003		0.1367	0.1367		0.1367	0.1367	13.7225	5.6365	19.3590	0.0221	9.0000e-004	20.1785
Landscaping	0.0679	0.0259	2.2398	1.2000e-004		0.0124	0.0124		0.0124	0.0124	0.0000	3.6508	3.6508	3.5400e-003	0.0000	3.7392
Total	1.8311	0.0418	3.1962	2.0200e-003		0.1491	0.1491		0.1491	0.1491	13.7225	9.2873	23.0098	0.0256	9.0000e-004	23.9177

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	49.6810	0.6410	0.0155	70.3238
Unmitigated	49.6810	0.6410	0.0155	70.3238

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	19.6114 / 12.3637	49.6810	0.6410	0.0155	70.3238
Total		49.6810	0.6410	0.0155	70.3238

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	19.6114 / 12.3637	49.6810	0.6410	0.0155	70.3238
Total		49.6810	0.6410	0.0155	70.3238

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	28.1061	1.6610	0.0000	69.6317
Unmitigated	28.1061	1.6610	0.0000	69.6317

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	138.46	28.1061	1.6610	0.0000	69.6317
Total		28.1061	1.6610	0.0000	69.6317

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	138.46	28.1061	1.6610	0.0000	69.6317
Total		28.1061	1.6610	0.0000	69.6317

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
