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Air Quality and GHG Modeling Results
Unmitigated

East 18th Street Project

Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	216.00	Dwelling Unit	9.53	216,000.00	618
Apartments Mid Rise	178.00	Dwelling Unit	5.33	178,000.00	509

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	64
Climate Zone	4			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Intensity factor for CO2 adjusted based on PG&E's RPS reductions

Land Use - Applicant provided

Construction Phase - Applicant provided

Grading - Export/import not required

Vehicle Trips - Per Hexagon Transportation Consultants, Inc.

Area Mitigation - Per BAAQMD regulations

Energy Mitigation - Applicant provided

Water Mitigation - Applicant provided

Mobile Land Use Mitigation - Applicant provided

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	22.00
tblConstructionPhase	NumDays	30.00	23.00
tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	300.00	434.00
tblConstructionPhase	NumDays	20.00	434.00
tblConstructionPhase	PhaseEndDate	6/14/2019	7/2/2019
tblConstructionPhase	PhaseEndDate	7/26/2019	8/2/2019
tblConstructionPhase	PhaseEndDate	10/16/2020	9/4/2019
tblConstructionPhase	PhaseEndDate	9/18/2020	5/4/2021
tblConstructionPhase	PhaseEndDate	11/13/2020	5/18/2021
tblConstructionPhase	PhaseStartDate	6/15/2019	7/3/2019
tblConstructionPhase	PhaseStartDate	9/19/2020	8/5/2019
tblConstructionPhase	PhaseStartDate	7/27/2019	9/5/2019
tblConstructionPhase	PhaseStartDate	10/17/2020	9/19/2019
tblGrading	AcresOfGrading	57.50	14.85
tblLandUse	LotAcreage	5.68	9.53
tblLandUse	LotAcreage	4.68	5.33
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblVehicleTrips	ST_TR	6.39	4.73
tblVehicleTrips	SU_TR	5.86	4.73
tblVehicleTrips	WD_TR	6.65	4.73

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	0.7622	2.5195	2.0424	4.2800e-003	0.4031	0.1245	0.5275	0.1823	0.1160	0.2983	0.0000	384.4896	384.4896	0.0698	0.0000	386.2356
2020	2.1531	3.4747	3.7038	8.8300e-003	0.3891	0.1663	0.5554	0.1043	0.1573	0.2616	0.0000	790.1584	790.1584	0.0915	0.0000	792.4466
2021	0.7734	1.0672	1.2095	2.9600e-003	0.1329	0.0480	0.1809	0.0356	0.0454	0.0810	0.0000	264.4871	264.4871	0.0301	0.0000	265.2394
Maximum	**2.1531**	**3.4747**	**3.7038**	**8.8300e-003**	**0.4031**	**0.1663**	**0.5554**	**0.1823**	**0.1573**	**0.2983**	**0.0000**	**790.1584**	**790.1584**	**0.0915**	**0.0000**	**792.4466**

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	0.7622	2.5195	2.0424	4.2800e-003	0.4031	0.1245	0.5275	0.1823	0.1160	0.2983	0.0000	384.4893	384.4893	0.0698	0.0000	386.2353
2020	2.1531	3.4747	3.7038	8.8300e-003	0.3891	0.1663	0.5554	0.1043	0.1573	0.2616	0.0000	790.1580	790.1580	0.0915	0.0000	792.4462
2021	0.7734	1.0672	1.2095	2.9600e-003	0.1329	0.0480	0.1809	0.0356	0.0454	0.0810	0.0000	264.4870	264.4870	0.0301	0.0000	265.2393
Maximum	**2.1531**	**3.4747**	**3.7038**	**8.8300e-003**	**0.4031**	**0.1663**	**0.5554**	**0.1823**	**0.1573**	**0.2983**	**0.0000**	**790.1580**	**790.1580**	**0.0915**	**0.0000**	**792.4462**

East 18th Street Project - Bay Area AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	**6-3-2019**	**9-2-2019**	1.3673	1.3673
2	**9-3-2019**	**12-2-2019**	1.4017	1.4017
3	**12-3-2019**	**3-2-2020**	1.4344	1.4344
4	**3-3-2020**	**6-2-2020**	1.4114	1.4114
5	**6-3-2020**	**9-2-2020**	1.4083	1.4083
6	**9-3-2020**	**12-2-2020**	1.3997	1.3997
7	**12-3-2020**	**3-2-2021**	1.3256	1.3256
8	**3-3-2021**	**6-2-2021**	0.9783	0.9783
		Highest	1.4344	1.4344

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	3.7227	0.0756	5.4323	5.1400e-003		0.3741	0.3741		0.3741	0.3741	35.9247	19.5348	55.4594	0.0624	2.3600e-003	57.7202
Energy	0.0184	0.1569	0.0667	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	395.6093	395.6093	0.0249	7.7600e-003	398.5428
Mobile	0.4626	2.2757	5.1898	0.0185	1.6019	0.0168	1.6187	0.4300	0.0157	0.4457	0.0000	1,701.3189	1,701.3189	0.0628	0.0000	1,702.8889
Waste						0.0000	0.0000		0.0000	0.0000	36.7901	0.0000	36.7901	2.1742	0.0000	91.1459
Water						0.0000	0.0000		0.0000	0.0000	8.1441	25.7226	33.8667	0.8391	0.0203	60.8875
Total	**4.2037**	**2.5082**	**10.6888**	**0.0247**	**1.6019**	**0.4036**	**2.0055**	**0.4300**	**0.4025**	**0.8325**	**80.8589**	**2,142.1855**	**2,223.0444**	**3.1633**	**0.0304**	**2,311.1852**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.9078	0.0610	2.9402	3.3000e-004		0.0184	0.0184		0.0184	0.0184	0.0000	36.2582	36.2582	5.2100e-003	5.8000e-004	36.5606
Energy	0.0166	0.1419	0.0604	9.1000e-004		0.0115	0.0115		0.0115	0.0115	0.0000	344.0189	344.0189	0.0211	6.7300e-003	346.5525
Mobile	0.4543	2.2156	5.0012	0.0177	1.5218	0.0161	1.5379	0.4085	0.0150	0.4235	0.0000	1,622.5958	1,622.5958	0.0606	0.0000	1,624.1109
Waste						0.0000	0.0000		0.0000	0.0000	36.7901	0.0000	36.7901	2.1742	0.0000	91.1459
Water						0.0000	0.0000		0.0000	0.0000	6.5153	20.5781	27.0934	0.6712	0.0162	48.7100
Total	**2.3787**	**2.4185**	**8.0018**	**0.0189**	**1.5218**	**0.0459**	**1.5677**	**0.4085**	**0.0449**	**0.4534**	**43.3054**	**2,023.4510**	**2,066.7564**	**2.9324**	**0.0235**	**2,147.0798**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**43.41**	**3.58**	**25.14**	**23.35**	**5.00**	**88.62**	**21.83**	**5.00**	**88.85**	**45.54**	**46.44**	**5.54**	**7.03**	**7.30**	**22.57**	**7.10**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/3/2019	7/2/2019	5	22	
2	Grading	Grading	7/3/2019	8/2/2019	5	23	
3	Building Construction	Building Construction	9/5/2019	5/4/2021	5	434	
4	Paving	Paving	8/5/2019	9/4/2019	5	23	
5	Architectural Coating	Architectural Coating	9/19/2019	5/18/2021	5	434	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 14.85

Acres of Paving: 0

Residential Indoor: 797,850; Residential Outdoor: 265,950; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	284.00	42.00	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	57.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1987	0.0000	0.1987	0.1092	0.0000	0.1092	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0477	0.5013	0.2427	4.2000e-004		0.0263	0.0263		0.0242	0.0242	0.0000	37.5856	37.5856	0.0119	0.0000	37.8829
Total	**0.0477**	**0.5013**	**0.2427**	**4.2000e-004**	**0.1987**	**0.0263**	**0.2250**	**0.1092**	**0.0242**	**0.1334**	**0.0000**	**37.5856**	**37.5856**	**0.0119**	**0.0000**	**37.8829**

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	7.2000e-004	5.3000e-004	5.4200e-003	2.0000e-005	1.5600e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.4153	1.4153	4.0000e-005	0.0000	1.4162
Total	**7.2000e-004**	**5.3000e-004**	**5.4200e-003**	**2.0000e-005**	**1.5600e-003**	**1.0000e-005**	**1.5800e-003**	**4.2000e-004**	**1.0000e-005**	**4.3000e-004**	**0.0000**	**1.4153**	**1.4153**	**4.0000e-005**	**0.0000**	**1.4162**

3.2 Site Preparation - 2019

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					0.1987	0.0000	0.1987	0.1092	0.0000	0.1092	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0477	0.5013	0.2427	4.2000e-004		0.0263	0.0263		0.0242	0.0242	0.0000	37.5855	37.5855	0.0119	0.0000	37.8828
Total	**0.0477**	**0.5013**	**0.2427**	**4.2000e-004**	**0.1987**	**0.0263**	**0.2250**	**0.1092**	**0.0242**	**0.1334**	**0.0000**	**37.5855**	**37.5855**	**0.0119**	**0.0000**	**37.8828**

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	7.2000e-004	5.3000e-004	5.4200e-003	2.0000e-005	1.5600e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.4153	1.4153	4.0000e-005	0.0000	1.4162
Total	**7.2000e-004**	**5.3000e-004**	**5.4200e-003**	**2.0000e-005**	**1.5600e-003**	**1.0000e-005**	**1.5800e-003**	**4.2000e-004**	**1.0000e-005**	**4.3000e-004**	**0.0000**	**1.4153**	**1.4153**	**4.0000e-005**	**0.0000**	**1.4162**

3.3 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					0.0771	0.0000	0.0771	0.0389	0.0000	0.0389	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0545	0.6270	0.3838	7.1000e-004		0.0274	0.0274		0.0252	0.0252	0.0000	64.0565	64.0565	0.0203	0.0000	64.5632
Total	**0.0545**	**0.6270**	**0.3838**	**7.1000e-004**	**0.0771**	**0.0274**	**0.1045**	**0.0389**	**0.0252**	**0.0641**	**0.0000**	**64.0565**	**64.0565**	**0.0203**	**0.0000**	**64.5632**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3000e-004	6.2000e-004	6.3000e-003	2.0000e-005	1.8200e-003	1.0000e-005	1.8300e-003	4.8000e-004	1.0000e-005	5.0000e-004	0.0000	1.6440	1.6440	4.0000e-005	0.0000	1.6451
Total	**8.3000e-004**	**6.2000e-004**	**6.3000e-003**	**2.0000e-005**	**1.8200e-003**	**1.0000e-005**	**1.8300e-003**	**4.8000e-004**	**1.0000e-005**	**5.0000e-004**	**0.0000**	**1.6440**	**1.6440**	**4.0000e-005**	**0.0000**	**1.6451**

3.3 Grading - 2019

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					0.0771	0.0000	0.0771	0.0389	0.0000	0.0389	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0545	0.6270	0.3838	7.1000e-004		0.0274	0.0274		0.0252	0.0252	0.0000	64.0564	64.0564	0.0203	0.0000	64.5631
Total	**0.0545**	**0.6270**	**0.3838**	**7.1000e-004**	**0.0771**	**0.0274**	**0.1045**	**0.0389**	**0.0252**	**0.0641**	**0.0000**	**64.0564**	**64.0564**	**0.0203**	**0.0000**	**64.5631**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3000e-004	6.2000e-004	6.3000e-003	2.0000e-005	1.8200e-003	1.0000e-005	1.8300e-003	4.8000e-004	1.0000e-005	5.0000e-004	0.0000	1.6440	1.6440	4.0000e-005	0.0000	1.6451
Total	**8.3000e-004**	**6.2000e-004**	**6.3000e-003**	**2.0000e-005**	**1.8200e-003**	**1.0000e-005**	**1.8300e-003**	**4.8000e-004**	**1.0000e-005**	**5.0000e-004**	**0.0000**	**1.6440**	**1.6440**	**4.0000e-005**	**0.0000**	**1.6451**

3.4 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	0.0992	0.8853	0.7209	1.1300e-003		0.0542	0.0542		0.0509	0.0509	0.0000	98.7438	98.7438	0.0241	0.0000	99.3451
Total	**0.0992**	**0.8853**	**0.7209**	**1.1300e-003**		**0.0542**	**0.0542**		**0.0509**	**0.0509**	**0.0000**	**98.7438**	**98.7438**	**0.0241**	**0.0000**	**99.3451**

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	8.3400e-003	0.2234	0.0573	4.8000e-004	0.0116	1.5300e-003	0.0131	3.3500e-003	1.4700e-003	4.8100e-003	0.0000	46.4857	46.4857	2.5800e-003	0.0000	46.5501
Worker	0.0432	0.0320	0.3267	9.4000e-004	0.0943	6.5000e-004	0.0949	0.0251	6.0000e-004	0.0257	0.0000	85.2578	85.2578	2.2800e-003	0.0000	85.3149
Total	**0.0516**	**0.2554**	**0.3840**	**1.4200e-003**	**0.1058**	**2.1800e-003**	**0.1080**	**0.0284**	**2.0700e-003**	**0.0305**	**0.0000**	**131.7436**	**131.7436**	**4.8600e-003**	**0.0000**	**131.8651**

3.4 Building Construction - 2019

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	0.0992	0.8853	0.7209	1.1300e-003		0.0542	0.0542		0.0509	0.0509	0.0000	98.7437	98.7437	0.0241	0.0000	99.3450
Total	**0.0992**	**0.8853**	**0.7209**	**1.1300e-003**		**0.0542**	**0.0542**		**0.0509**	**0.0509**	**0.0000**	**98.7437**	**98.7437**	**0.0241**	**0.0000**	**99.3450**

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	8.3400e-003	0.2234	0.0573	4.8000e-004	0.0116	1.5300e-003	0.0131	3.3500e-003	1.4700e-003	4.8100e-003	0.0000	46.4857	46.4857	2.5800e-003	0.0000	46.5501
Worker	0.0432	0.0320	0.3267	9.4000e-004	0.0943	6.5000e-004	0.0949	0.0251	6.0000e-004	0.0257	0.0000	85.2578	85.2578	2.2800e-003	0.0000	85.3149
Total	**0.0516**	**0.2554**	**0.3840**	**1.4200e-003**	**0.1058**	**2.1800e-003**	**0.1080**	**0.0284**	**2.0700e-003**	**0.0305**	**0.0000**	**131.7436**	**131.7436**	**4.8600e-003**	**0.0000**	**131.8651**

3.4 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	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4091	303.4091	0.0740	0.0000	305.2596
Total	**0.2777**	**2.5134**	**2.2072**	**3.5300e-003**		**0.1463**	**0.1463**		**0.1376**	**0.1376**	**0.0000**	**303.4091**	**303.4091**	**0.0740**	**0.0000**	**305.2596**

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	0.0213	0.6348	0.1596	1.5000e-003	0.0361	3.1000e-003	0.0392	0.0104	2.9600e-003	0.0134	0.0000	144.0531	144.0531	7.4300e-003	0.0000	144.2388
Worker	0.1233	0.0882	0.9138	2.8500e-003	0.2940	1.9800e-003	0.2960	0.0782	1.8200e-003	0.0800	0.0000	257.5561	257.5561	6.2300e-003	0.0000	257.7119
Total	**0.1446**	**0.7230**	**1.0734**	**4.3500e-003**	**0.3301**	**5.0800e-003**	**0.3351**	**0.0886**	**4.7800e-003**	**0.0934**	**0.0000**	**401.6091**	**401.6091**	**0.0137**	**0.0000**	**401.9507**

3.4 Building Construction - 2020

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	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4087	303.4087	0.0740	0.0000	305.2592
Total	**0.2777**	**2.5134**	**2.2072**	**3.5300e-003**		**0.1463**	**0.1463**		**0.1376**	**0.1376**	**0.0000**	**303.4087**	**303.4087**	**0.0740**	**0.0000**	**305.2592**

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	0.0213	0.6348	0.1596	1.5000e-003	0.0361	3.1000e-003	0.0392	0.0104	2.9600e-003	0.0134	0.0000	144.0531	144.0531	7.4300e-003	0.0000	144.2388
Worker	0.1233	0.0882	0.9138	2.8500e-003	0.2940	1.9800e-003	0.2960	0.0782	1.8200e-003	0.0800	0.0000	257.5561	257.5561	6.2300e-003	0.0000	257.7119
Total	**0.1446**	**0.7230**	**1.0734**	**4.3500e-003**	**0.3301**	**5.0800e-003**	**0.3351**	**0.0886**	**4.7800e-003**	**0.0934**	**0.0000**	**401.6091**	**401.6091**	**0.0137**	**0.0000**	**401.9507**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0836	0.7670	0.7293	1.1800e-003		0.0422	0.0422		0.0397	0.0397	0.0000	101.9204	101.9204	0.0246	0.0000	102.5351
Total	**0.0836**	**0.7670**	**0.7293**	**1.1800e-003**		**0.0422**	**0.0422**		**0.0397**	**0.0397**	**0.0000**	**101.9204**	**101.9204**	**0.0246**	**0.0000**	**102.5351**

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	5.8700e-003	0.1930	0.0482	5.0000e-004	0.0121	4.2000e-004	0.0125	3.5100e-003	4.0000e-004	3.9100e-003	0.0000	47.9268	47.9268	2.3600e-003	0.0000	47.9857
Worker	0.0384	0.0265	0.2803	9.2000e-004	0.0987	6.5000e-004	0.0994	0.0263	5.9000e-004	0.0269	0.0000	83.4720	83.4720	1.8700e-003	0.0000	83.5188
Total	**0.0442**	**0.2195**	**0.3285**	**1.4200e-003**	**0.1109**	**1.0700e-003**	**0.1119**	**0.0298**	**9.9000e-004**	**0.0308**	**0.0000**	**131.3988**	**131.3988**	**4.2300e-003**	**0.0000**	**131.5045**

3.4 Building Construction - 2021

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	0.0836	0.7670	0.7293	1.1800e-003		0.0422	0.0422		0.0397	0.0397	0.0000	101.9203	101.9203	0.0246	0.0000	102.5350
Total	**0.0836**	**0.7670**	**0.7293**	**1.1800e-003**		**0.0422**	**0.0422**		**0.0397**	**0.0397**	**0.0000**	**101.9203**	**101.9203**	**0.0246**	**0.0000**	**102.5350**

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	5.8700e-003	0.1930	0.0482	5.0000e-004	0.0121	4.2000e-004	0.0125	3.5100e-003	4.0000e-004	3.9100e-003	0.0000	47.9268	47.9268	2.3600e-003	0.0000	47.9857
Worker	0.0384	0.0265	0.2803	9.2000e-004	0.0987	6.5000e-004	0.0994	0.0263	5.9000e-004	0.0269	0.0000	83.4720	83.4720	1.8700e-003	0.0000	83.5188
Total	**0.0442**	**0.2195**	**0.3285**	**1.4200e-003**	**0.1109**	**1.0700e-003**	**0.1119**	**0.0298**	**9.9000e-004**	**0.0308**	**0.0000**	**131.3988**	**131.3988**	**4.2300e-003**	**0.0000**	**131.5045**

3.5 Paving - 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	0.0167	0.1753	0.1687	2.6000e-004		9.4800e-003	9.4800e-003		8.7200e-003	8.7200e-003	0.0000	23.5465	23.5465	7.4500e-003	0.0000	23.7327
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0167**	**0.1753**	**0.1687**	**2.6000e-004**		**9.4800e-003**	**9.4800e-003**		**8.7200e-003**	**8.7200e-003**	**0.0000**	**23.5465**	**23.5465**	**7.4500e-003**	**0.0000**	**23.7327**

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	6.3000e-004	4.6000e-004	4.7200e-003	1.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.2330	1.2330	3.0000e-005	0.0000	1.2338
Total	**6.3000e-004**	**4.6000e-004**	**4.7200e-003**	**1.0000e-005**	**1.3600e-003**	**1.0000e-005**	**1.3700e-003**	**3.6000e-004**	**1.0000e-005**	**3.7000e-004**	**0.0000**	**1.2330**	**1.2330**	**3.0000e-005**	**0.0000**	**1.2338**

3.5 Paving - 2019

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	0.0167	0.1753	0.1687	2.6000e-004		9.4800e-003	9.4800e-003		8.7200e-003	8.7200e-003	0.0000	23.5464	23.5464	7.4500e-003	0.0000	23.7327
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0167**	**0.1753**	**0.1687**	**2.6000e-004**		**9.4800e-003**	**9.4800e-003**		**8.7200e-003**	**8.7200e-003**	**0.0000**	**23.5464**	**23.5464**	**7.4500e-003**	**0.0000**	**23.7327**

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	6.3000e-004	4.6000e-004	4.7200e-003	1.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.2330	1.2330	3.0000e-005	0.0000	1.2338
Total	**6.3000e-004**	**4.6000e-004**	**4.7200e-003**	**1.0000e-005**	**1.3600e-003**	**1.0000e-005**	**1.3700e-003**	**3.6000e-004**	**1.0000e-005**	**3.7000e-004**	**0.0000**	**1.2330**	**1.2330**	**3.0000e-005**	**0.0000**	**1.2338**

3.6 Architectural Coating - 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					
Archit. Coating	0.4729					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.8600e-003	0.0679	0.0681	1.1000e-004		4.7600e-003	4.7600e-003		4.7600e-003	4.7600e-003	0.0000	9.4470	9.4470	8.0000e-004	0.0000	9.4670
Total	**0.4828**	**0.0679**	**0.0681**	**1.1000e-004**		**4.7600e-003**	**4.7600e-003**		**4.7600e-003**	**4.7600e-003**	**0.0000**	**9.4470**	**9.4470**	**8.0000e-004**	**0.0000**	**9.4670**

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	7.6500e-003	5.6600e-003	0.0578	1.7000e-004	0.0167	1.1000e-004	0.0168	4.4300e-003	1.1000e-004	4.5400e-003	0.0000	15.0745	15.0745	4.0000e-004	0.0000	15.0846
Total	**7.6500e-003**	**5.6600e-003**	**0.0578**	**1.7000e-004**	**0.0167**	**1.1000e-004**	**0.0168**	**4.4300e-003**	**1.1000e-004**	**4.5400e-003**	**0.0000**	**15.0745**	**15.0745**	**4.0000e-004**	**0.0000**	**15.0846**

3.6 Architectural Coating - 2019

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	0.4729					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.8600e-003	0.0679	0.0681	1.1000e-004		4.7600e-003	4.7600e-003		4.7600e-003	4.7600e-003	0.0000	9.4470	9.4470	8.0000e-004	0.0000	9.4670
Total	**0.4828**	**0.0679**	**0.0681**	**1.1000e-004**		**4.7600e-003**	**4.7600e-003**		**4.7600e-003**	**4.7600e-003**	**0.0000**	**9.4470**	**9.4470**	**8.0000e-004**	**0.0000**	**9.4670**

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	7.6500e-003	5.6600e-003	0.0578	1.7000e-004	0.0167	1.1000e-004	0.0168	4.4300e-003	1.1000e-004	4.5400e-003	0.0000	15.0745	15.0745	4.0000e-004	0.0000	15.0846
Total	**7.6500e-003**	**5.6600e-003**	**0.0578**	**1.7000e-004**	**0.0167**	**1.1000e-004**	**0.0168**	**4.4300e-003**	**1.1000e-004**	**4.5400e-003**	**0.0000**	**15.0745**	**15.0745**	**4.0000e-004**	**0.0000**	**15.0846**

3.6 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	1.6743					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.2206	0.2399	3.9000e-004		0.0145	0.0145		0.0145	0.0145	0.0000	33.4476	33.4476	2.5900e-003	0.0000	33.5124
Total	**1.7061**	**0.2206**	**0.2399**	**3.9000e-004**		**0.0145**	**0.0145**		**0.0145**	**0.0145**	**0.0000**	**33.4476**	**33.4476**	**2.5900e-003**	**0.0000**	**33.5124**

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	0.0248	0.0177	0.1834	5.7000e-004	0.0590	4.0000e-004	0.0594	0.0157	3.7000e-004	0.0161	0.0000	51.6926	51.6926	1.2500e-003	0.0000	51.7239
Total	**0.0248**	**0.0177**	**0.1834**	**5.7000e-004**	**0.0590**	**4.0000e-004**	**0.0594**	**0.0157**	**3.7000e-004**	**0.0161**	**0.0000**	**51.6926**	**51.6926**	**1.2500e-003**	**0.0000**	**51.7239**

3.6 Architectural Coating - 2020

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	1.6743					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.2206	0.2399	3.9000e-004		0.0145	0.0145		0.0145	0.0145	0.0000	33.4476	33.4476	2.5900e-003	0.0000	33.5123
Total	**1.7061**	**0.2206**	**0.2399**	**3.9000e-004**		**0.0145**	**0.0145**		**0.0145**	**0.0145**	**0.0000**	**33.4476**	**33.4476**	**2.5900e-003**	**0.0000**	**33.5123**

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	0.0248	0.0177	0.1834	5.7000e-004	0.0590	4.0000e-004	0.0594	0.0157	3.7000e-004	0.0161	0.0000	51.6926	51.6926	1.2500e-003	0.0000	51.7239
Total	**0.0248**	**0.0177**	**0.1834**	**5.7000e-004**	**0.0590**	**4.0000e-004**	**0.0594**	**0.0157**	**3.7000e-004**	**0.0161**	**0.0000**	**51.6926**	**51.6926**	**1.2500e-003**	**0.0000**	**51.7239**

3.6 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	0.6263					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0107	0.0748	0.0891	1.5000e-004		4.6100e-003	4.6100e-003		4.6100e-003	4.6100e-003	0.0000	12.5109	12.5109	8.6000e-004	0.0000	12.5324
Total	**0.6370**	**0.0748**	**0.0891**	**1.5000e-004**		**4.6100e-003**	**4.6100e-003**		**4.6100e-003**	**4.6100e-003**	**0.0000**	**12.5109**	**12.5109**	**8.6000e-004**	**0.0000**	**12.5324**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.5700e-003	5.9100e-003	0.0626	2.1000e-004	0.0221	1.4000e-004	0.0222	5.8700e-003	1.3000e-004	6.0000e-003	0.0000	18.6570	18.6570	4.2000e-004	0.0000	18.6674
Total	**8.5700e-003**	**5.9100e-003**	**0.0626**	**2.1000e-004**	**0.0221**	**1.4000e-004**	**0.0222**	**5.8700e-003**	**1.3000e-004**	**6.0000e-003**	**0.0000**	**18.6570**	**18.6570**	**4.2000e-004**	**0.0000**	**18.6674**

3.6 Architectural Coating - 2021

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	0.6263					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0107	0.0748	0.0891	1.5000e-004		4.6100e-003	4.6100e-003		4.6100e-003	4.6100e-003	0.0000	12.5109	12.5109	8.6000e-004	0.0000	12.5324
Total	**0.6370**	**0.0748**	**0.0891**	**1.5000e-004**		**4.6100e-003**	**4.6100e-003**		**4.6100e-003**	**4.6100e-003**	**0.0000**	**12.5109**	**12.5109**	**8.6000e-004**	**0.0000**	**12.5324**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.5700e-003	5.9100e-003	0.0626	2.1000e-004	0.0221	1.4000e-004	0.0222	5.8700e-003	1.3000e-004	6.0000e-003	0.0000	18.6570	18.6570	4.2000e-004	0.0000	18.6674
Total	**8.5700e-003**	**5.9100e-003**	**0.0626**	**2.1000e-004**	**0.0221**	**1.4000e-004**	**0.0222**	**5.8700e-003**	**1.3000e-004**	**6.0000e-003**	**0.0000**	**18.6570**	**18.6570**	**4.2000e-004**	**0.0000**	**18.6674**

4.0 Operational Detail - Mobile

Unmitigated

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4543	2.2156	5.0012	0.0177	1.5218	0.0161	1.5379	0.4085	0.0150	0.4235	0.0000	1,622.5958	1,622.5958	0.0606	0.0000	1,624.1109
Unmitigated	0.4626	2.2757	5.1898	0.0185	1.6019	0.0168	1.6187	0.4300	0.0157	0.4457	0.0000	1,701.3189	1,701.3189	0.0628	0.0000	1,702.8889

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,021.68	1,021.68	1021.68	2,359,680	2,241,696
Apartments Mid Rise	841.94	841.94	841.94	1,944,551	1,847,323
Total	1,863.62	1,863.62	1,863.62	4,304,230	4,089,019

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Unmitigated

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.576985	0.039376	0.193723	0.112069	0.016317	0.005358	0.017943	0.025814	0.002614	0.002274	0.005874	0.000887	0.000768

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Percent of Electricity Use Generated with Renewable 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	179.6684	179.6684	0.0180	3.7200e-003	181.2253
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	213.9619	213.9619	0.0214	4.4300e-003	215.8160
NaturalGas Mitigated	0.0166	0.1419	0.0604	9.1000e-004		0.0115	0.0115		0.0115	0.0115	0.0000	164.3505	164.3505	3.1500e-003	3.0100e-003	165.3272
NaturalGas Unmitigated	0.0184	0.1569	0.0667	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	181.6474	181.6474	3.4800e-003	3.3300e-003	182.7268

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	1.53782e+006	8.2900e-003	0.0709	0.0302	4.5000e-004		5.7300e-003	5.7300e-003		5.7300e-003	5.7300e-003	0.0000	82.0640	82.0640	1.5700e-003	1.5000e-003	82.5517
Apartments Mid Rise	1.86612e+006	0.0101	0.0860	0.0366	5.5000e-004		6.9500e-003	6.9500e-003		6.9500e-003	6.9500e-003	0.0000	99.5833	99.5833	1.9100e-003	1.8300e-003	100.1751
Total		**0.0184**	**0.1569**	**0.0667**	**1.0000e-003**		**0.0127**	**0.0127**		**0.0127**	**0.0127**	**0.0000**	**181.6474**	**181.6474**	**3.4800e-003**	**3.3300e-003**	**182.7268**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.39139e+006	7.5000e-003	0.0641	0.0273	4.1000e-004		5.1800e-003	5.1800e-003		5.1800e-003	5.1800e-003	0.0000	74.2497	74.2497	1.4200e-003	1.3600e-003	74.6910
Apartments Mid Rise	1.68843e+006	9.1000e-003	0.0778	0.0331	5.0000e-004		6.2900e-003	6.2900e-003		6.2900e-003	6.2900e-003	0.0000	90.1008	90.1008	1.7300e-003	1.6500e-003	90.6362
Total		**0.0166**	**0.1419**	**0.0604**	**9.1000e-004**		**0.0115**	**0.0115**		**0.0115**	**0.0115**	**0.0000**	**164.3505**	**164.3505**	**3.1500e-003**	**3.0100e-003**	**165.3272**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	734846	96.6630	9.6700e-003	2.0000e-003	97.5006
Apartments Mid Rise	891724	117.2989	0.0117	2.4300e-003	118.3154
Total		**213.9619**	**0.0214**	**4.4300e-003**	**215.8160**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	617066	81.1700	8.1200e-003	1.6800e-003	81.8734
Apartments Mid Rise	748799	98.4984	9.8500e-003	2.0400e-003	99.3520
Total		**179.6684**	**0.0180**	**3.7200e-003**	**181.2253**

6.0 Area Detail

6.1 Mitigation Measures Area

Unmitigated

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.9078	0.0610	2.9402	3.3000e-004		0.0184	0.0184		0.0184	0.0184	0.0000	36.2582	36.2582	5.2100e-003	5.8000e-004	36.5606
Unmitigated	3.7227	0.0756	5.4323	5.1400e-003		0.3741	0.3741		0.3741	0.3741	35.9247	19.5348	55.4594	0.0624	2.3600e-003	57.7202

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	0.2774					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.5388					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.8182	0.0418	2.5036	4.9800e-003		0.3579	0.3579		0.3579	0.3579	35.9247	14.7560	50.6807	0.0577	2.3600e-003	52.8262
Landscaping	0.0885	0.0338	2.9286	1.5000e-004		0.0162	0.0162		0.0162	0.0162	0.0000	4.7788	4.7788	4.6100e-003	0.0000	4.8940
Total	**3.7227**	**0.0756**	**5.4323**	**5.1300e-003**		**0.3741**	**0.3741**		**0.3741**	**0.3741**	**35.9247**	**19.5348**	**55.4594**	**0.0624**	**2.3600e-003**	**57.7202**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2774					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.5388					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.1800e-003	0.0272	0.0116	1.7000e-004		2.2000e-003	2.2000e-003		2.2000e-003	2.2000e-003	0.0000	31.4795	31.4795	6.0000e-004	5.8000e-004	31.6665
Landscaping	0.0885	0.0338	2.9286	1.5000e-004		0.0162	0.0162		0.0162	0.0162	0.0000	4.7788	4.7788	4.6100e-003	0.0000	4.8940
Total	**1.9078**	**0.0610**	**2.9402**	**3.2000e-004**		**0.0184**	**0.0184**		**0.0184**	**0.0184**	**0.0000**	**36.2582**	**36.2582**	**5.2100e-003**	**5.8000e-004**	**36.5605**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	27.0934	0.6712	0.0162	48.7100
Unmitigated	33.8667	0.8391	0.0203	60.8875

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	25.6707 / 16.1837	33.8667	0.8391	0.0203	60.8875
Total		**33.8667**	**0.8391**	**0.0203**	**60.8875**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	20.5365 / 12.947	27.0934	0.6712	0.0162	48.7100
Total		**27.0934**	**0.6712**	**0.0162**	**48.7100**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	36.7901	2.1742	0.0000	91.1459
Unmitigated	36.7901	2.1742	0.0000	91.1459

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	181.24	36.7901	2.1742	0.0000	91.1459
Total		**36.7901**	**2.1742**	**0.0000**	**91.1459**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	181.24	36.7901	2.1742	0.0000	91.1459
Total		**36.7901**	**2.1742**	**0.0000**	**91.1459**

9.0 Operational Offroad

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

Unmitigated

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

East 18th Street Project

Bay Area AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	216.00	Dwelling Unit	9.53	216,000.00	618
Apartments Mid Rise	178.00	Dwelling Unit	5.33	178,000.00	509

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	64
Climate Zone	4			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Intensity factor for CO2 adjusted based on PG&E's RPS reductions

Land Use - Applicant provided

Construction Phase - Applicant provided

Grading - Export/import not required

Vehicle Trips - Per Hexagon Transportation Consultants, Inc.

Area Mitigation - Per BAAQMD regulations

Energy Mitigation - Applicant provided

Water Mitigation - Applicant provided

Mobile Land Use Mitigation - Applicant provided

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	22.00
tblConstructionPhase	NumDays	30.00	23.00
tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	300.00	434.00
tblConstructionPhase	NumDays	20.00	434.00
tblConstructionPhase	PhaseEndDate	6/14/2019	7/2/2019
tblConstructionPhase	PhaseEndDate	7/26/2019	8/2/2019
tblConstructionPhase	PhaseEndDate	10/16/2020	9/4/2019
tblConstructionPhase	PhaseEndDate	9/18/2020	5/4/2021
tblConstructionPhase	PhaseEndDate	11/13/2020	5/18/2021
tblConstructionPhase	PhaseStartDate	6/15/2019	7/3/2019
tblConstructionPhase	PhaseStartDate	9/19/2020	8/5/2019
tblConstructionPhase	PhaseStartDate	7/27/2019	9/5/2019
tblConstructionPhase	PhaseStartDate	10/17/2020	9/19/2019
tblGrading	AcresOfGrading	57.50	14.85
tblLandUse	LotAcreage	5.68	9.53
tblLandUse	LotAcreage	4.68	5.33
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblVehicleTrips	ST_TR	6.39	4.73
tblVehicleTrips	SU_TR	5.86	4.73
tblVehicleTrips	WD_TR	6.65	4.73

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	16.9004	54.5678	33.9731	0.0705	18.2141	2.3913	20.6055	9.9699	2.2000	12.1699	0.0000	6,995.6543	6,995.6543	1.9472	0.0000	7,015.5825
2020	16.4877	26.3739	28.9708	0.0695	3.0855	1.2696	4.3551	0.8249	1.2004	2.0253	0.0000	6,858.5330	6,858.5330	0.7724	0.0000	6,877.8436
2021	16.1278	23.9401	27.7923	0.0684	3.0855	1.0797	4.1653	0.8249	1.0206	1.8455	0.0000	6,749.0198	6,749.0198	0.7527	0.0000	6,767.8363
Maximum	**16.9004**	**54.5678**	**33.9731**	**0.0705**	**18.2141**	**2.3913**	**20.6055**	**9.9699**	**2.2000**	**12.1699**	**0.0000**	**6,995.6543**	**6,995.6543**	**1.9472**	**0.0000**	**7,015.5825**

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	16.9004	54.5678	33.9731	0.0705	18.2141	2.3913	20.6055	9.9699	2.2000	12.1699	0.0000	6,995.6543	6,995.6543	1.9472	0.0000	7,015.5825
2020	16.4877	26.3739	28.9708	0.0695	3.0855	1.2696	4.3551	0.8249	1.2004	2.0253	0.0000	6,858.5330	6,858.5330	0.7724	0.0000	6,877.8436
2021	16.1278	23.9401	27.7923	0.0684	3.0855	1.0797	4.1653	0.8249	1.0206	1.8455	0.0000	6,749.0198	6,749.0198	0.7527	0.0000	6,767.8362
Maximum	**16.9004**	**54.5678**	**33.9731**	**0.0705**	**18.2141**	**2.3913**	**20.6055**	**9.9699**	**2.2000**	**12.1699**	**0.0000**	**6,995.6543**	**6,995.6543**	**1.9472**	**0.0000**	**7,015.5825**

East 18th Street Project - Bay Area AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	335.0072	7.5397	460.7049	0.8266		60.9640	60.9640		60.9640	60.9640	6,596.2268	2,978.7649	9,574.9918	9.0831	0.4662	9,941.0076
Energy	0.1006	0.8594	0.3657	5.4900e-003		0.0695	0.0695		0.0695	0.0695		1,097.1614	1,097.1614	0.0210	0.0201	1,103.6813
Mobile	2.9122	12.1326	29.6293	0.1078	9.1444	0.0921	9.2366	2.4466	0.0863	2.5328		10,902.6173	10,902.6173	0.3823		10,912.1752
Total	**338.0199**	**20.5317**	**490.6999**	**0.9399**	**9.1444**	**61.1256**	**70.2701**	**2.4466**	**61.1198**	**63.5663**	**6,596.2268**	**14,978.5436**	**21,574.7704**	**9.4864**	**0.4864**	**21,956.8641**

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	11.5053	5.2553	34.6171	0.0329		0.5744	0.5744		0.5744	0.5744	0.0000	6,288.3649	6,288.3649	0.1759	0.1142	6,326.7974
Energy	0.0910	0.7776	0.3309	4.9600e-003		0.0629	0.0629		0.0629	0.0629		992.6873	992.6873	0.0190	0.0182	998.5863
Mobile	2.8658	11.8217	28.4596	0.1028	8.6872	0.0881	8.7753	2.3242	0.0825	2.4067		10,397.4260	10,397.4260	0.3684		10,406.6361
Total	**14.4621**	**17.8546**	**63.4076**	**0.1406**	**8.6872**	**0.7253**	**9.4125**	**2.3242**	**0.7197**	**3.0439**	**0.0000**	**17,678.4783**	**17,678.4783**	**0.5633**	**0.1324**	**17,732.0198**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**95.72**	**13.04**	**87.08**	**85.04**	**5.00**	**98.81**	**86.61**	**5.00**	**98.82**	**95.21**	**100.00**	**-18.03**	**18.06**	**94.06**	**72.77**	**19.24**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/3/2019	7/2/2019	5	22	
2	Grading	Grading	7/3/2019	8/2/2019	5	23	
3	Building Construction	Building Construction	9/5/2019	5/4/2021	5	434	
4	Paving	Paving	8/5/2019	9/4/2019	5	23	
5	Architectural Coating	Architectural Coating	9/19/2019	5/18/2021	5	434	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 14.85

Acres of Paving: 0

Residential Indoor: 797,850; Residential Outdoor: 265,950; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	284.00	42.00	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	57.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0685	0.0429	0.5367	1.5300e-003	0.1479	9.8000e-004	0.1488	0.0392	9.0000e-004	0.0401		152.5352	152.5352	4.0600e-003		152.6366
Total	**0.0685**	**0.0429**	**0.5367**	**1.5300e-003**	**0.1479**	**9.8000e-004**	**0.1488**	**0.0392**	**9.0000e-004**	**0.0401**		**152.5352**	**152.5352**	**4.0600e-003**		**152.6366**

3.2 Site Preparation - 2019

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0685	0.0429	0.5367	1.5300e-003	0.1479	9.8000e-004	0.1488	0.0392	9.0000e-004	0.0401		152.5352	152.5352	4.0600e-003		152.6366
Total	**0.0685**	**0.0429**	**0.5367**	**1.5300e-003**	**0.1479**	**9.8000e-004**	**0.1488**	**0.0392**	**9.0000e-004**	**0.0401**		**152.5352**	**152.5352**	**4.0600e-003**		**152.6366**

3.3 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					6.7068	0.0000	6.7068	3.3842	0.0000	3.3842			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.0195	6,140.0195	1.9426		6,188.5854
Total	**4.7389**	**54.5202**	**33.3768**	**0.0620**	**6.7068**	**2.3827**	**9.0895**	**3.3842**	**2.1920**	**5.5762**		**6,140.0195**	**6,140.0195**	**1.9426**		**6,188.5854**

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	0.0761	0.0476	0.5964	1.7000e-003	0.1643	1.0900e-003	0.1654	0.0436	1.0000e-003	0.0446		169.4836	169.4836	4.5100e-003		169.5962
Total	**0.0761**	**0.0476**	**0.5964**	**1.7000e-003**	**0.1643**	**1.0900e-003**	**0.1654**	**0.0436**	**1.0000e-003**	**0.0446**		**169.4836**	**169.4836**	**4.5100e-003**		**169.5962**

3.3 Grading - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.7068	0.0000	6.7068	3.3842	0.0000	3.3842			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854
Total	**4.7389**	**54.5202**	**33.3768**	**0.0620**	**6.7068**	**2.3827**	**9.0895**	**3.3842**	**2.1920**	**5.5762**	**0.0000**	**6,140.0195**	**6,140.0195**	**1.9426**		**6,188.5854**

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	0.0761	0.0476	0.5964	1.7000e-003	0.1643	1.0900e-003	0.1654	0.0436	1.0000e-003	0.0446		169.4836	169.4836	4.5100e-003		169.5962
Total	**0.0761**	**0.0476**	**0.5964**	**1.7000e-003**	**0.1643**	**1.0900e-003**	**0.1654**	**0.0436**	**1.0000e-003**	**0.0446**		**169.4836**	**169.4836**	**4.5100e-003**		**169.5962**

3.4 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	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**		**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

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	0.1948	5.2455	1.2809	0.0117	0.2843	0.0363	0.3206	0.0818	0.0347	0.1166		1,232.9313	1,232.9313	0.0652		1,234.5612
Worker	1.0800	0.6765	8.4684	0.0242	2.3330	0.0155	2.3484	0.6188	0.0142	0.6331		2,406.6667	2,406.6667	0.0640		2,408.2662
Total	**1.2748**	**5.9220**	**9.7493**	**0.0358**	**2.6173**	**0.0517**	**2.6690**	**0.7007**	**0.0490**	**0.7496**		**3,639.5980**	**3,639.5980**	**0.1292**		**3,642.8274**

3.4 Building Construction - 2019

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	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**	**0.0000**	**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

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	0.1948	5.2455	1.2809	0.0117	0.2843	0.0363	0.3206	0.0818	0.0347	0.1166		1,232.9313	1,232.9313	0.0652		1,234.5612
Worker	1.0800	0.6765	8.4684	0.0242	2.3330	0.0155	2.3484	0.6188	0.0142	0.6331		2,406.6667	2,406.6667	0.0640		2,408.2662
Total	**1.2748**	**5.9220**	**9.7493**	**0.0358**	**2.6173**	**0.0517**	**2.6690**	**0.7007**	**0.0490**	**0.7496**		**3,639.5980**	**3,639.5980**	**0.1292**		**3,642.8274**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**		**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

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	0.1592	4.7864	1.1417	0.0116	0.2843	0.0235	0.3078	0.0818	0.0225	0.1043		1,225.1738	1,225.1738	0.0603		1,226.6822
Worker	0.9871	0.5976	7.6198	0.0234	2.3330	0.0151	2.3481	0.6188	0.0139	0.6327		2,331.0054	2,331.0054	0.0562		2,332.4097
Total	**1.1463**	**5.3841**	**8.7616**	**0.0350**	**2.6173**	**0.0386**	**2.6559**	**0.7007**	**0.0364**	**0.7370**		**3,556.1792**	**3,556.1792**	**0.1165**		**3,559.0918**

3.4 Building Construction - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**	**0.0000**	**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

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	0.1592	4.7864	1.1417	0.0116	0.2843	0.0235	0.3078	0.0818	0.0225	0.1043		1,225.1738	1,225.1738	0.0603		1,226.6822
Worker	0.9871	0.5976	7.6198	0.0234	2.3330	0.0151	2.3481	0.6188	0.0139	0.6327		2,331.0054	2,331.0054	0.0562		2,332.4097
Total	**1.1463**	**5.3841**	**8.7616**	**0.0350**	**2.6173**	**0.0386**	**2.6559**	**0.7007**	**0.0364**	**0.7370**		**3,556.1792**	**3,556.1792**	**0.1165**		**3,559.0918**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

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

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	0.1303	4.3403	1.0235	0.0115	0.2843	9.4000e-003	0.2937	0.0818	8.9900e-003	0.0908		1,213.6259	1,213.6259	0.0570		1,215.0499
Worker	0.9132	0.5337	6.9759	0.0226	2.3330	0.0147	2.3477	0.6188	0.0135	0.6323		2,249.1650	2,249.1650	0.0503		2,250.4220
Total	**1.0434**	**4.8740**	**7.9994**	**0.0340**	**2.6173**	**0.0241**	**2.6414**	**0.7007**	**0.0225**	**0.7232**		**3,462.7909**	**3,462.7909**	**0.1072**		**3,465.4719**

3.4 Building Construction - 2021

Mitigated Construction On-Site

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

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	0.1303	4.3403	1.0235	0.0115	0.2843	9.4000e-003	0.2937	0.0818	8.9900e-003	0.0908		1,213.6259	1,213.6259	0.0570		1,215.0499
Worker	0.9132	0.5337	6.9759	0.0226	2.3330	0.0147	2.3477	0.6188	0.0135	0.6323		2,249.1650	2,249.1650	0.0503		2,250.4220
Total	**1.0434**	**4.8740**	**7.9994**	**0.0340**	**2.6173**	**0.0241**	**2.6414**	**0.7007**	**0.0225**	**0.7232**		**3,462.7909**	**3,462.7909**	**0.1072**		**3,465.4719**

3.5 Paving - 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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4544**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**		**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

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	0.0570	0.0357	0.4473	1.2800e-003	0.1232	8.2000e-004	0.1240	0.0327	7.5000e-004	0.0334		127.1127	127.1127	3.3800e-003		127.1972
Total	**0.0570**	**0.0357**	**0.4473**	**1.2800e-003**	**0.1232**	**8.2000e-004**	**0.1240**	**0.0327**	**7.5000e-004**	**0.0334**		**127.1127**	**127.1127**	**3.3800e-003**		**127.1972**

3.5 Paving - 2019

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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4544**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**	**0.0000**	**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

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	0.0570	0.0357	0.4473	1.2800e-003	0.1232	8.2000e-004	0.1240	0.0327	7.5000e-004	0.0334		127.1127	127.1127	3.3800e-003		127.1972
Total	**0.0570**	**0.0357**	**0.4473**	**1.2800e-003**	**0.1232**	**8.2000e-004**	**0.1240**	**0.0327**	**7.5000e-004**	**0.0334**		**127.1127**	**127.1127**	**3.3800e-003**		**127.1972**

3.6 Architectural Coating - 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					
Archit. Coating	12.7812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	**13.0477**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**		**281.4481**	**281.4481**	**0.0238**		**282.0423**

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	0.2168	0.1358	1.6997	4.8500e-003	0.4682	3.1000e-003	0.4713	0.1242	2.8600e-003	0.1271		483.0282	483.0282	0.0128		483.3492
Total	**0.2168**	**0.1358**	**1.6997**	**4.8500e-003**	**0.4682**	**3.1000e-003**	**0.4713**	**0.1242**	**2.8600e-003**	**0.1271**		**483.0282**	**483.0282**	**0.0128**		**483.3492**

3.6 Architectural Coating - 2019

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	12.7812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	**13.0477**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**	**0.0000**	**281.4481**	**281.4481**	**0.0238**		**282.0423**

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	0.2168	0.1358	1.6997	4.8500e-003	0.4682	3.1000e-003	0.4713	0.1242	2.8600e-003	0.1271		483.0282	483.0282	0.0128		483.3492
Total	**0.2168**	**0.1358**	**1.6997**	**4.8500e-003**	**0.4682**	**3.1000e-003**	**0.4713**	**0.1242**	**2.8600e-003**	**0.1271**		**483.0282**	**483.0282**	**0.0128**		**483.3492**

3.6 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	12.7812					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	**13.0234**	**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	0.1981	0.1199	1.5293	4.6900e-003	0.4682	3.0300e-003	0.4713	0.1242	2.7900e-003	0.1270		467.8426	467.8426	0.0113		468.1245
Total	**0.1981**	**0.1199**	**1.5293**	**4.6900e-003**	**0.4682**	**3.0300e-003**	**0.4713**	**0.1242**	**2.7900e-003**	**0.1270**		**467.8426**	**467.8426**	**0.0113**		**468.1245**

3.6 Architectural Coating - 2020

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	12.7812					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	**13.0234**	**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	0.1981	0.1199	1.5293	4.6900e-003	0.4682	3.0300e-003	0.4713	0.1242	2.7900e-003	0.1270		467.8426	467.8426	0.0113		468.1245
Total	**0.1981**	**0.1199**	**1.5293**	**4.6900e-003**	**0.4682**	**3.0300e-003**	**0.4713**	**0.1242**	**2.7900e-003**	**0.1270**		**467.8426**	**467.8426**	**0.0113**		**468.1245**

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	12.7812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**13.0001**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

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	0.1833	0.1071	1.4001	4.5300e-003	0.4682	2.9500e-003	0.4712	0.1242	2.7100e-003	0.1269		451.4169	451.4169	0.0101		451.6692
Total	**0.1833**	**0.1071**	**1.4001**	**4.5300e-003**	**0.4682**	**2.9500e-003**	**0.4712**	**0.1242**	**2.7100e-003**	**0.1269**		**451.4169**	**451.4169**	**0.0101**		**451.6692**

3.6 Architectural Coating - 2021

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	12.7812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**13.0001**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

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	0.1833	0.1071	1.4001	4.5300e-003	0.4682	2.9500e-003	0.4712	0.1242	2.7100e-003	0.1269		451.4169	451.4169	0.0101		451.6692
Total	**0.1833**	**0.1071**	**1.4001**	**4.5300e-003**	**0.4682**	**2.9500e-003**	**0.4712**	**0.1242**	**2.7100e-003**	**0.1269**		**451.4169**	**451.4169**	**0.0101**		**451.6692**

4.0 Operational Detail - Mobile

Unmitigated

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.8658	11.8217	28.4596	0.1028	8.6872	0.0881	8.7753	2.3242	0.0825	2.4067		10,397.4260	10,397.4260	0.3684		10,406.6361
Unmitigated	2.9122	12.1326	29.6293	0.1078	9.1444	0.0921	9.2366	2.4466	0.0863	2.5328		10,902.6173	10,902.6173	0.3823		10,912.1752

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,021.68	1,021.68	1021.68	2,359,680	2,241,696
Apartments Mid Rise	841.94	841.94	841.94	1,944,551	1,847,323
Total	1,863.62	1,863.62	1,863.62	4,304,230	4,089,019

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Unmitigated

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.576985	0.039376	0.193723	0.112069	0.016317	0.005358	0.017943	0.025814	0.002614	0.002274	0.005874	0.000887	0.000768

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0910	0.7776	0.3309	4.9600e-003		0.0629	0.0629		0.0629	0.0629		992.6873	992.6873	0.0190	0.0182	998.5863
NaturalGas Unmitigated	0.1006	0.8594	0.3657	5.4900e-003		0.0695	0.0695		0.0695	0.0695		1,097.1614	1,097.1614	0.0210	0.0201	1,103.6813

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	4213.21	0.0454	0.3883	0.1652	2.4800e-003		0.0314	0.0314		0.0314	0.0314		495.6719	495.6719	9.5000e-003	9.0900e-003	498.6174
Apartments Mid Rise	5112.66	0.0551	0.4712	0.2005	3.0100e-003		0.0381	0.0381		0.0381	0.0381		601.4895	601.4895	0.0115	0.0110	605.0639
Total		**0.1006**	**0.8595**	**0.3657**	**5.4900e-003**		**0.0695**	**0.0695**		**0.0695**	**0.0695**		**1,097.1614**	**1,097.1614**	**0.0210**	**0.0201**	**1,103.6813**

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	3.81202	0.0411	0.3513	0.1495	2.2400e-003		0.0284	0.0284		0.0284	0.0284		448.4729	448.4729	8.6000e-003	8.2200e-003	451.1380
Apartments Mid Rise	4.62582	0.0499	0.4263	0.1814	2.7200e-003		0.0345	0.0345		0.0345	0.0345		544.2144	544.2144	0.0104	9.9800e-003	547.4483
Total		**0.0910**	**0.7776**	**0.3309**	**4.9600e-003**		**0.0629**	**0.0629**		**0.0629**	**0.0629**		**992.6873**	**992.6873**	**0.0190**	**0.0182**	**998.5863**

6.0 Area Detail

6.1 Mitigation Measures Area

Unmitigated

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	11.5053	5.2553	34.6171	0.0329		0.5744	0.5744		0.5744	0.5744	0.0000	6,288.3649	6,288.3649	0.1759	0.1142	6,326.7974
Unmitigated	335.0072	7.5397	460.7049	0.8266		60.9640	60.9640		60.9640	60.9640	6,596.2268	2,978.7649	9,574.9918	9.0831	0.4662	9,941.0076

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	1.5197					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.4316					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	324.0730	7.1644	428.1644	0.8249		60.7842	60.7842		60.7842	60.7842	6,596.2268	2,920.2353	9,516.4621	9.0266	0.4662	9,881.0663
Landscaping	0.9829	0.3753	32.5405	1.7200e-003		0.1798	0.1798		0.1798	0.1798		58.5296	58.5296	0.0565		59.9413
Total	**335.0072**	**7.5397**	**460.7049**	**0.8266**		**60.9640**	**60.9640**		**60.9640**	**60.9640**	**6,596.2268**	**2,978.7649**	**9,574.9918**	**9.0831**	**0.4662**	**9,941.0076**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.5197					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.4316					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.5711	4.8800	2.0766	0.0312		0.3946	0.3946		0.3946	0.3946	0.0000	6,229.8353	6,229.8353	0.1194	0.1142	6,266.8561
Landscaping	0.9829	0.3753	32.5405	1.7200e-003		0.1798	0.1798		0.1798	0.1798		58.5296	58.5296	0.0565		59.9413
Total	**11.5053**	**5.2553**	**34.6171**	**0.0329**		**0.5744**	**0.5744**		**0.5744**	**0.5744**	**0.0000**	**6,288.3649**	**6,288.3649**	**0.1759**	**0.1142**	**6,326.7974**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

East 18th Street Project

Bay Area AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	216.00	Dwelling Unit	9.53	216,000.00	618
Apartments Mid Rise	178.00	Dwelling Unit	5.33	178,000.00	509

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	64
Climate Zone	4			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Intensity factor for CO2 adjusted based on PG&E's RPS reductions

Land Use - Applicant provided

Construction Phase - Applicant provided

Grading - Export/import not required

Vehicle Trips - Per Hexagon Transportation Consultants, Inc.

Area Mitigation - Per BAAQMD regulations

Energy Mitigation - Applicant provided

Water Mitigation - Applicant provided

Mobile Land Use Mitigation - Applicant provided

Construction Off-road Equipment Mitigation - Applicant provided

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	22.00
tblConstructionPhase	NumDays	30.00	23.00
tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	300.00	434.00
tblConstructionPhase	NumDays	20.00	434.00
tblConstructionPhase	PhaseEndDate	6/14/2019	7/2/2019
tblConstructionPhase	PhaseEndDate	7/26/2019	8/2/2019
tblConstructionPhase	PhaseEndDate	10/16/2020	9/4/2019
tblConstructionPhase	PhaseEndDate	9/18/2020	5/4/2021
tblConstructionPhase	PhaseEndDate	11/13/2020	5/18/2021
tblConstructionPhase	PhaseStartDate	6/15/2019	7/3/2019
tblConstructionPhase	PhaseStartDate	9/19/2020	8/5/2019
tblConstructionPhase	PhaseStartDate	7/27/2019	9/5/2019
tblConstructionPhase	PhaseStartDate	10/17/2020	9/19/2019
tblGrading	AcresOfGrading	57.50	14.85
tblLandUse	LotAcreage	5.68	9.53
tblLandUse	LotAcreage	4.68	5.33
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblVehicleTrips	ST_TR	6.39	4.73
tblVehicleTrips	SU_TR	5.86	4.73
tblVehicleTrips	WD_TR	6.65	4.73

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	16.9839	54.5791	33.9399	0.0680	18.2141	2.3913	20.6055	9.9699	2.2000	12.1699	0.0000	6,737.2416	6,737.2416	1.9469	0.0000	6,757.1918
2020	16.5645	26.5964	28.5789	0.0670	3.0855	1.2700	4.3555	0.8249	1.2008	2.0257	0.0000	6,606.8686	6,606.8686	0.7730	0.0000	6,626.1927
2021	16.2006	24.1281	27.4057	0.0660	3.0855	1.0801	4.1656	0.8249	1.0209	1.8458	0.0000	6,505.3659	6,505.3659	0.7532	0.0000	6,524.1970
Maximum	**16.9839**	**54.5791**	**33.9399**	**0.0680**	**18.2141**	**2.3913**	**20.6055**	**9.9699**	**2.2000**	**12.1699**	**0.0000**	**6,737.2416**	**6,737.2416**	**1.9469**	**0.0000**	**6,757.1918**

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	16.9839	54.5791	33.9399	0.0680	18.2141	2.3913	20.6055	9.9699	2.2000	12.1699	0.0000	6,737.2416	6,737.2416	1.9469	0.0000	6,757.1918
2020	16.5645	26.5964	28.5789	0.0670	3.0855	1.2700	4.3555	0.8249	1.2008	2.0257	0.0000	6,606.8686	6,606.8686	0.7730	0.0000	6,626.1927
2021	16.2006	24.1281	27.4057	0.0660	3.0855	1.0801	4.1656	0.8249	1.0209	1.8458	0.0000	6,505.3659	6,505.3659	0.7532	0.0000	6,524.1970
Maximum	**16.9839**	**54.5791**	**33.9399**	**0.0680**	**18.2141**	**2.3913**	**20.6055**	**9.9699**	**2.2000**	**12.1699**	**0.0000**	**6,737.2416**	**6,737.2416**	**1.9469**	**0.0000**	**6,757.1918**

East 18th Street Project - Bay Area AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	335.0072	7.5397	460.7049	0.8266		60.9640	60.9640		60.9640	60.9640	6,596.2268	2,978.7649	9,574.9918	9.0831	0.4662	9,941.0076
Energy	0.1006	0.8594	0.3657	5.4900e-003		0.0695	0.0695		0.0695	0.0695		1,097.1614	1,097.1614	0.0210	0.0201	1,103.6813
Mobile	2.5211	12.7227	29.8860	0.1009	9.1444	0.0928	9.2373	2.4466	0.0869	2.5335		10,207.3129	10,207.3129	0.3906		10,217.0779
Total	**337.6289**	**21.1218**	**490.9566**	**0.9330**	**9.1444**	**61.1263**	**70.2708**	**2.4466**	**61.1204**	**63.5670**	**6,596.2268**	**14,283.2392**	**20,879.4661**	**9.4947**	**0.4864**	**21,261.7668**

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	11.5053	5.2553	34.6171	0.0329		0.5744	0.5744		0.5744	0.5744	0.0000	6,288.3649	6,288.3649	0.1759	0.1142	6,326.7974
Energy	0.0910	0.7776	0.3309	4.9600e-003		0.0629	0.0629		0.0629	0.0629		992.6873	992.6873	0.0190	0.0182	998.5863
Mobile	2.4755	12.3795	28.8454	0.0962	8.6872	0.0888	8.7760	2.3242	0.0831	2.4074		9,733.3703	9,733.3703	0.3773		9,742.8034
Total	**14.0718**	**18.4124**	**63.7934**	**0.1340**	**8.6872**	**0.7260**	**9.4132**	**2.3242**	**0.7203**	**3.0446**	**0.0000**	**17,014.4225**	**17,014.4225**	**0.5722**	**0.1324**	**17,068.1871**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**95.83**	**12.83**	**87.01**	**85.64**	**5.00**	**98.81**	**86.60**	**5.00**	**98.82**	**95.21**	**100.00**	**-19.12**	**18.51**	**93.97**	**72.77**	**19.72**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/3/2019	7/2/2019	5	22	
2	Grading	Grading	7/3/2019	8/2/2019	5	23	
3	Building Construction	Building Construction	9/5/2019	5/4/2021	5	434	
4	Paving	Paving	8/5/2019	9/4/2019	5	23	
5	Architectural Coating	Architectural Coating	9/19/2019	5/18/2021	5	434	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 14.85

Acres of Paving: 0

Residential Indoor: 797,850; Residential Outdoor: 265,950; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	284.00	42.00	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	57.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

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

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	0.0724	0.0530	0.5068	1.4100e-003	0.1479	9.8000e-004	0.1488	0.0392	9.0000e-004	0.0401		140.5138	140.5138	3.8200e-003		140.6092
Total	**0.0724**	**0.0530**	**0.5068**	**1.4100e-003**	**0.1479**	**9.8000e-004**	**0.1488**	**0.0392**	**9.0000e-004**	**0.0401**		**140.5138**	**140.5138**	**3.8200e-003**		**140.6092**

3.2 Site Preparation - 2019

Mitigated Construction On-Site

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

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	0.0724	0.0530	0.5068	1.4100e-003	0.1479	9.8000e-004	0.1488	0.0392	9.0000e-004	0.0401		140.5138	140.5138	3.8200e-003		140.6092
Total	**0.0724**	**0.0530**	**0.5068**	**1.4100e-003**	**0.1479**	**9.8000e-004**	**0.1488**	**0.0392**	**9.0000e-004**	**0.0401**		**140.5138**	**140.5138**	**3.8200e-003**		**140.6092**

3.3 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					6.7068	0.0000	6.7068	3.3842	0.0000	3.3842			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.0195	6,140.0195	1.9426		6,188.5854
Total	**4.7389**	**54.5202**	**33.3768**	**0.0620**	**6.7068**	**2.3827**	**9.0895**	**3.3842**	**2.1920**	**5.5762**		**6,140.0195**	**6,140.0195**	**1.9426**		**6,188.5854**

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	0.0804	0.0589	0.5631	1.5700e-003	0.1643	1.0900e-003	0.1654	0.0436	1.0000e-003	0.0446		156.1264	156.1264	4.2400e-003		156.2324
Total	**0.0804**	**0.0589**	**0.5631**	**1.5700e-003**	**0.1643**	**1.0900e-003**	**0.1654**	**0.0436**	**1.0000e-003**	**0.0446**		**156.1264**	**156.1264**	**4.2400e-003**		**156.2324**

3.3 Grading - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.7068	0.0000	6.7068	3.3842	0.0000	3.3842			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854
Total	**4.7389**	**54.5202**	**33.3768**	**0.0620**	**6.7068**	**2.3827**	**9.0895**	**3.3842**	**2.1920**	**5.5762**	**0.0000**	**6,140.0195**	**6,140.0195**	**1.9426**		**6,188.5854**

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	0.0804	0.0589	0.5631	1.5700e-003	0.1643	1.0900e-003	0.1654	0.0436	1.0000e-003	0.0446		156.1264	156.1264	4.2400e-003		156.2324
Total	**0.0804**	**0.0589**	**0.5631**	**1.5700e-003**	**0.1643**	**1.0900e-003**	**0.1654**	**0.0436**	**1.0000e-003**	**0.0446**		**156.1264**	**156.1264**	**4.2400e-003**		**156.2324**

3.4 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	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**		**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

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	0.2041	5.3165	1.4622	0.0114	0.2843	0.0369	0.3212	0.0818	0.0353	0.1171		1,202.2585	1,202.2585	0.0706		1,204.0238
Worker	1.1418	0.8362	7.9958	0.0223	2.3330	0.0155	2.3484	0.6188	0.0142	0.6331		2,216.9947	2,216.9947	0.0602		2,218.4999
Total	**1.3459**	**6.1527**	**9.4580**	**0.0336**	**2.6173**	**0.0523**	**2.6696**	**0.7007**	**0.0495**	**0.7502**		**3,419.2532**	**3,419.2532**	**0.1308**		**3,422.5237**

3.4 Building Construction - 2019

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	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**	**0.0000**	**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

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	0.2041	5.3165	1.4622	0.0114	0.2843	0.0369	0.3212	0.0818	0.0353	0.1171		1,202.2585	1,202.2585	0.0706		1,204.0238
Worker	1.1418	0.8362	7.9958	0.0223	2.3330	0.0155	2.3484	0.6188	0.0142	0.6331		2,216.9947	2,216.9947	0.0602		2,218.4999
Total	**1.3459**	**6.1527**	**9.4580**	**0.0336**	**2.6173**	**0.0523**	**2.6696**	**0.7007**	**0.0495**	**0.7502**		**3,419.2532**	**3,419.2532**	**0.1308**		**3,422.5237**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**		**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

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	0.1676	4.8400	1.3062	0.0113	0.2843	0.0239	0.3082	0.0818	0.0228	0.1047		1,194.1744	1,194.1744	0.0653		1,195.8059
Worker	1.0441	0.7384	7.1565	0.0216	2.3330	0.0151	2.3481	0.6188	0.0139	0.6327		2,147.2258	2,147.2258	0.0525		2,148.5387
Total	**1.2117**	**5.5784**	**8.4626**	**0.0328**	**2.6173**	**0.0390**	**2.6563**	**0.7007**	**0.0367**	**0.7374**		**3,341.4002**	**3,341.4002**	**0.1178**		**3,344.3446**

3.4 Building Construction - 2020

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**	**0.0000**	**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

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	0.1676	4.8400	1.3062	0.0113	0.2843	0.0239	0.3082	0.0818	0.0228	0.1047		1,194.1744	1,194.1744	0.0653		1,195.8059
Worker	1.0441	0.7384	7.1565	0.0216	2.3330	0.0151	2.3481	0.6188	0.0139	0.6327		2,147.2258	2,147.2258	0.0525		2,148.5387
Total	**1.2117**	**5.5784**	**8.4626**	**0.0328**	**2.6173**	**0.0390**	**2.6563**	**0.7007**	**0.0367**	**0.7374**		**3,341.4002**	**3,341.4002**	**0.1178**		**3,344.3446**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

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

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	0.1380	4.3777	1.1764	0.0112	0.2843	9.7300e-003	0.2940	0.0818	9.3100e-003	0.0912		1,182.8340	1,182.8340	0.0616		1,184.3746
Worker	0.9674	0.6592	6.5267	0.0208	2.3330	0.0147	2.3477	0.6188	0.0135	0.6323		2,071.8841	2,071.8841	0.0469		2,073.0561
Total	**1.1054**	**5.0368**	**7.7030**	**0.0320**	**2.6173**	**0.0244**	**2.6417**	**0.7007**	**0.0228**	**0.7235**		**3,254.7181**	**3,254.7181**	**0.1085**		**3,257.4307**

3.4 Building Construction - 2021

Mitigated Construction On-Site

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

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	0.1380	4.3777	1.1764	0.0112	0.2843	9.7300e-003	0.2940	0.0818	9.3100e-003	0.0912		1,182.8340	1,182.8340	0.0616		1,184.3746
Worker	0.9674	0.6592	6.5267	0.0208	2.3330	0.0147	2.3477	0.6188	0.0135	0.6323		2,071.8841	2,071.8841	0.0469		2,073.0561
Total	**1.1054**	**5.0368**	**7.7030**	**0.0320**	**2.6173**	**0.0244**	**2.6417**	**0.7007**	**0.0228**	**0.7235**		**3,254.7181**	**3,254.7181**	**0.1085**		**3,257.4307**

3.5 Paving - 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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4544**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**		**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

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	0.0603	0.0442	0.4223	1.1800e-003	0.1232	8.2000e-004	0.1240	0.0327	7.5000e-004	0.0334		117.0948	117.0948	3.1800e-003		117.1743
Total	**0.0603**	**0.0442**	**0.4223**	**1.1800e-003**	**0.1232**	**8.2000e-004**	**0.1240**	**0.0327**	**7.5000e-004**	**0.0334**		**117.0948**	**117.0948**	**3.1800e-003**		**117.1743**

3.5 Paving - 2019

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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4544**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**	**0.0000**	**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

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	0.0603	0.0442	0.4223	1.1800e-003	0.1232	8.2000e-004	0.1240	0.0327	7.5000e-004	0.0334		117.0948	117.0948	3.1800e-003		117.1743
Total	**0.0603**	**0.0442**	**0.4223**	**1.1800e-003**	**0.1232**	**8.2000e-004**	**0.1240**	**0.0327**	**7.5000e-004**	**0.0334**		**117.0948**	**117.0948**	**3.1800e-003**		**117.1743**

3.6 Architectural Coating - 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					
Archit. Coating	12.7812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	**13.0477**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**		**281.4481**	**281.4481**	**0.0238**		**282.0423**

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	0.2292	0.1678	1.6048	4.4700e-003	0.4682	3.1000e-003	0.4713	0.1242	2.8600e-003	0.1271		444.9602	444.9602	0.0121		445.2623
Total	**0.2292**	**0.1678**	**1.6048**	**4.4700e-003**	**0.4682**	**3.1000e-003**	**0.4713**	**0.1242**	**2.8600e-003**	**0.1271**		**444.9602**	**444.9602**	**0.0121**		**445.2623**

3.6 Architectural Coating - 2019

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	12.7812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	**13.0477**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**	**0.0000**	**281.4481**	**281.4481**	**0.0238**		**282.0423**

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	0.2292	0.1678	1.6048	4.4700e-003	0.4682	3.1000e-003	0.4713	0.1242	2.8600e-003	0.1271		444.9602	444.9602	0.0121		445.2623
Total	**0.2292**	**0.1678**	**1.6048**	**4.4700e-003**	**0.4682**	**3.1000e-003**	**0.4713**	**0.1242**	**2.8600e-003**	**0.1271**		**444.9602**	**444.9602**	**0.0121**		**445.2623**

3.6 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	12.7812					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	**13.0234**	**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	0.2096	0.1482	1.4363	4.3200e-003	0.4682	3.0300e-003	0.4713	0.1242	2.7900e-003	0.1270		430.9573	430.9573	0.0105		431.2208
Total	**0.2096**	**0.1482**	**1.4363**	**4.3200e-003**	**0.4682**	**3.0300e-003**	**0.4713**	**0.1242**	**2.7900e-003**	**0.1270**		**430.9573**	**430.9573**	**0.0105**		**431.2208**

3.6 Architectural Coating - 2020

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	12.7812					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	**13.0234**	**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	0.2096	0.1482	1.4363	4.3200e-003	0.4682	3.0300e-003	0.4713	0.1242	2.7900e-003	0.1270		430.9573	430.9573	0.0105		431.2208
Total	**0.2096**	**0.1482**	**1.4363**	**4.3200e-003**	**0.4682**	**3.0300e-003**	**0.4713**	**0.1242**	**2.7900e-003**	**0.1270**		**430.9573**	**430.9573**	**0.0105**		**431.2208**

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	12.7812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**13.0001**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

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	0.1942	0.1323	1.3099	4.1700e-003	0.4682	2.9500e-003	0.4712	0.1242	2.7100e-003	0.1269		415.8359	415.8359	9.4100e-003		416.0711
Total	**0.1942**	**0.1323**	**1.3099**	**4.1700e-003**	**0.4682**	**2.9500e-003**	**0.4712**	**0.1242**	**2.7100e-003**	**0.1269**		**415.8359**	**415.8359**	**9.4100e-003**		**416.0711**

3.6 Architectural Coating - 2021

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	12.7812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**13.0001**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

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	0.1942	0.1323	1.3099	4.1700e-003	0.4682	2.9500e-003	0.4712	0.1242	2.7100e-003	0.1269		415.8359	415.8359	9.4100e-003		416.0711
Total	**0.1942**	**0.1323**	**1.3099**	**4.1700e-003**	**0.4682**	**2.9500e-003**	**0.4712**	**0.1242**	**2.7100e-003**	**0.1269**		**415.8359**	**415.8359**	**9.4100e-003**		**416.0711**

4.0 Operational Detail - Mobile

Unmitigated

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.4755	12.3795	28.8454	0.0962	8.6872	0.0888	8.7760	2.3242	0.0831	2.4074		9,733.3703	9,733.3703	0.3773		9,742.8034
Unmitigated	2.5211	12.7227	29.8860	0.1009	9.1444	0.0928	9.2373	2.4466	0.0869	2.5335		10,207.3129	10,207.3129	0.3906		10,217.0779

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,021.68	1,021.68	1021.68	2,359,680	2,241,696
Apartments Mid Rise	841.94	841.94	841.94	1,944,551	1,847,323
Total	1,863.62	1,863.62	1,863.62	4,304,230	4,089,019

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3

4.4 Fleet Mix

Unmitigated

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.576985	0.039376	0.193723	0.112069	0.016317	0.005358	0.017943	0.025814	0.002614	0.002274	0.005874	0.000887	0.000768

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0910	0.7776	0.3309	4.9600e-003		0.0629	0.0629		0.0629	0.0629		992.6873	992.6873	0.0190	0.0182	998.5863
NaturalGas Unmitigated	0.1006	0.8594	0.3657	5.4900e-003		0.0695	0.0695		0.0695	0.0695		1,097.1614	1,097.1614	0.0210	0.0201	1,103.6813

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	5112.66	0.0551	0.4712	0.2005	3.0100e-003		0.0381	0.0381		0.0381	0.0381		601.4895	601.4895	0.0115	0.0110	605.0639
Apartments Mid Rise	4213.21	0.0454	0.3883	0.1652	2.4800e-003		0.0314	0.0314		0.0314	0.0314		495.6719	495.6719	9.5000e-003	9.0900e-003	498.6174
Total		**0.1006**	**0.8595**	**0.3657**	**5.4900e-003**		**0.0695**	**0.0695**		**0.0695**	**0.0695**		**1,097.1614**	**1,097.1614**	**0.0210**	**0.0201**	**1,103.6813**

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	3.81202	0.0411	0.3513	0.1495	2.2400e-003		0.0284	0.0284		0.0284	0.0284		448.4729	448.4729	8.6000e-003	8.2200e-003	451.1380
Apartments Mid Rise	4.62582	0.0499	0.4263	0.1814	2.7200e-003		0.0345	0.0345		0.0345	0.0345		544.2144	544.2144	0.0104	9.9800e-003	547.4483
Total		**0.0910**	**0.7776**	**0.3309**	**4.9600e-003**		**0.0629**	**0.0629**		**0.0629**	**0.0629**		**992.6873**	**992.6873**	**0.0190**	**0.0182**	**998.5863**

6.0 Area Detail

6.1 Mitigation Measures Area

Unmitigated

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	11.5053	5.2553	34.6171	0.0329		0.5744	0.5744		0.5744	0.5744	0.0000	6,288.3649	6,288.3649	0.1759	0.1142	6,326.7974
Unmitigated	335.0072	7.5397	460.7049	0.8266		60.9640	60.9640		60.9640	60.9640	6,596.2268	2,978.7649	9,574.9918	9.0831	0.4662	9,941.0076

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	1.5197					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.4316					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	324.0730	7.1644	428.1644	0.8249		60.7842	60.7842		60.7842	60.7842	6,596.2268	2,920.2353	9,516.4621	9.0266	0.4662	9,881.0663
Landscaping	0.9829	0.3753	32.5405	1.7200e-003		0.1798	0.1798		0.1798	0.1798		58.5296	58.5296	0.0565		59.9413
Total	**335.0072**	**7.5397**	**460.7049**	**0.8266**		**60.9640**	**60.9640**		**60.9640**	**60.9640**	**6,596.2268**	**2,978.7649**	**9,574.9918**	**9.0831**	**0.4662**	**9,941.0076**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.5197					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.4316					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.5711	4.8800	2.0766	0.0312		0.3946	0.3946		0.3946	0.3946	0.0000	6,229.8353	6,229.8353	0.1194	0.1142	6,266.8561
Landscaping	0.9829	0.3753	32.5405	1.7200e-003		0.1798	0.1798		0.1798	0.1798		58.5296	58.5296	0.0565		59.9413
Total	**11.5053**	**5.2553**	**34.6171**	**0.0329**		**0.5744**	**0.5744**		**0.5744**	**0.5744**	**0.0000**	**6,288.3649**	**6,288.3649**	**0.1759**	**0.1142**	**6,326.7974**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

East 18th Street Project

Bay Area AQMD Air District, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Scrapers	Diesel	No Change	0	2	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	2	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	4	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	9	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Air Compressors	5.23100E-002	3.63310E-001	3.97110E-001	6.40000E-004	2.39100E-002	2.39100E-002	0.00000E+000	5.54056E+001	5.54056E+001	4.25000E-003	0.00000E+000	5.55118E+001
Cranes	8.63900E-002	1.02546E+000	4.03080E-001	1.10000E-003	4.24200E-002	3.90200E-002	0.00000E+000	9.66648E+001	9.66648E+001	3.11300E-002	0.00000E+000	9.74430E+001
Excavators	6.00000E-003	6.16800E-002	7.50500E-002	1.20000E-004	2.97000E-003	2.74000E-003	0.00000E+000	1.06648E+001	1.06648E+001	3.37000E-003	0.00000E+000	1.07491E+001
Forklifts	9.38200E-002	8.45530E-001	7.68470E-001	9.90000E-004	6.29800E-002	5.79400E-002	0.00000E+000	8.77997E+001	8.77997E+001	2.82700E-002	0.00000E+000	8.85065E+001
Generator Sets	8.66500E-002	7.53680E-001	8.03920E-001	1.43000E-003	4.25700E-002	4.25700E-002	0.00000E+000	1.22650E+002	1.22650E+002	6.94000E-003	0.00000E+000	1.22824E+002
Graders	5.60000E-003	7.56700E-002	2.11400E-002	8.00000E-005	2.43000E-003	2.23000E-003	0.00000E+000	6.86078E+000	6.86078E+000	2.17000E-003	0.00000E+000	6.91504E+000
Pavers	6.62000E-003	7.18700E-002	6.67400E-002	1.10000E-004	3.52000E-003	3.24000E-003	0.00000E+000	9.71274E+000	9.71274E+000	3.07000E-003	0.00000E+000	9.78956E+000
Paving Equipment	4.90000E-003	5.19000E-002	5.80400E-002	9.00000E-005	2.57000E-003	2.37000E-003	0.00000E+000	8.41536E+000	8.41536E+000	2.66000E-003	0.00000E+000	8.48192E+000
Rollers	5.21000E-003	5.15400E-002	4.38700E-002	6.00000E-005	3.39000E-003	3.12000E-003	0.00000E+000	5.41837E+000	5.41837E+000	1.71000E-003	0.00000E+000	5.46122E+000
Rubber Tired Dozers	5.04900E-002	5.37310E-001	1.90640E-001	3.80000E-004	2.62000E-002	2.41000E-002	0.00000E+000	3.41297E+001	3.41297E+001	1.08000E-002	0.00000E+000	3.43997E+001
Scrapers	2.45000E-002	2.97020E-001	1.85410E-001	3.50000E-004	1.16400E-002	1.07100E-002	0.00000E+000	3.12940E+001	3.12940E+001	9.90000E-003	0.00000E+000	3.15415E+001
Tractors/Loaders/ Backhoes	1.34940E-001	1.35717E+000	1.45314E+000	1.98000E-003	8.63400E-002	7.94400E-002	0.00000E+000	1.74808E+002	1.74808E+002	5.61900E-002	0.00000E+000	1.76212E+002
Welders	7.43100E-002	3.40450E-001	3.83010E-001	5.50000E-004	1.88300E-002	1.88300E-002	0.00000E+000	4.08439E+001	4.08439E+001	6.04000E-003	0.00000E+000	4.09950E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Mitigated tons/yr						Mitigated mt/yr					
Air Compressors	5.23100E-002	3.63310E-001	3.97100E-001	6.40000E-004	2.39100E-002	2.39100E-002	0.00000E+000	5.54055E+001	5.54055E+001	4.25000E-003	0.00000E+000	5.55117E+001
Cranes	8.63900E-002	1.02546E+000	4.03080E-001	1.10000E-003	4.24200E-002	3.90200E-002	0.00000E+000	9.66647E+001	9.66647E+001	3.11300E-002	0.00000E+000	9.74429E+001
Excavators	6.00000E-003	6.16800E-002	7.50500E-002	1.20000E-004	2.97000E-003	2.74000E-003	0.00000E+000	1.06648E+001	1.06648E+001	3.37000E-003	0.00000E+000	1.07491E+001
Forklifts	9.38200E-002	8.45530E-001	7.68470E-001	9.90000E-004	6.29800E-002	5.79400E-002	0.00000E+000	8.77996E+001	8.77996E+001	2.82700E-002	0.00000E+000	8.85064E+001
Generator Sets	8.66500E-002	7.53680E-001	8.03920E-001	1.43000E-003	4.25700E-002	4.25700E-002	0.00000E+000	1.22650E+002	1.22650E+002	6.94000E-003	0.00000E+000	1.22823E+002
Graders	5.60000E-003	7.56700E-002	2.11400E-002	8.00000E-005	2.43000E-003	2.23000E-003	0.00000E+000	6.86077E+000	6.86077E+000	2.17000E-003	0.00000E+000	6.91504E+000
Pavers	6.62000E-003	7.18700E-002	6.67400E-002	1.10000E-004	3.52000E-003	3.24000E-003	0.00000E+000	9.71272E+000	9.71272E+000	3.07000E-003	0.00000E+000	9.78955E+000
Paving Equipment	4.90000E-003	5.19000E-002	5.80400E-002	9.00000E-005	2.57000E-003	2.37000E-003	0.00000E+000	8.41535E+000	8.41535E+000	2.66000E-003	0.00000E+000	8.48191E+000
Rollers	5.21000E-003	5.15400E-002	4.38700E-002	6.00000E-005	3.39000E-003	3.12000E-003	0.00000E+000	5.41836E+000	5.41836E+000	1.71000E-003	0.00000E+000	5.46122E+000
Rubber Tired Dozers	5.04900E-002	5.37310E-001	1.90640E-001	3.80000E-004	2.62000E-002	2.41000E-002	0.00000E+000	3.41297E+001	3.41297E+001	1.08000E-002	0.00000E+000	3.43996E+001
Scrapers	2.45000E-002	2.97020E-001	1.85410E-001	3.50000E-004	1.16400E-002	1.07100E-002	0.00000E+000	3.12940E+001	3.12940E+001	9.90000E-003	0.00000E+000	3.15415E+001
Tractors/Loaders/Backhoes	1.34940E-001	1.35717E+000	1.45314E+000	1.98000E-003	8.63400E-002	7.94400E-002	0.00000E+000	1.74808E+002	1.74808E+002	5.61900E-002	0.00000E+000	1.76212E+002
Welders	7.43100E-002	3.40450E-001	3.83010E-001	5.50000E-004	1.88300E-002	1.88300E-002	0.00000E+000	4.08438E+001	4.08438E+001	6.04000E-003	0.00000E+000	4.09949E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	2.51819E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.26341E-006	1.26341E-006	0.00000E+000	0.00000E+000	1.26099E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.13795E-006	1.13795E-006	0.00000E+000	0.00000E+000	1.23149E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.37668E-007	9.37668E-007	0.00000E+000	0.00000E+000	9.30309E-007
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.25285E-006	1.25285E-006	0.00000E+000	0.00000E+000	1.12986E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.22299E-006	1.22299E-006	0.00000E+000	0.00000E+000	1.22126E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.45756E-006	1.45756E-006	0.00000E+000	0.00000E+000	0.00000E+000
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.05915E-006	2.05915E-006	0.00000E+000	0.00000E+000	1.02150E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18830E-006	1.18830E-006	0.00000E+000	0.00000E+000	1.17898E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.84557E-006	1.84557E-006	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17200E-006	1.17200E-006	0.00000E+000	0.00000E+000	1.16280E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.58650E-007	9.58650E-007	0.00000E+000	0.00000E+000	1.26817E-006
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20132E-006	1.20132E-006	0.00000E+000	0.00000E+000	1.19174E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.22417E-006	1.22417E-006	0.00000E+000	0.00000E+000	1.21966E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input		Mitigation Input		Mitigation Input	
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
No	Water Exposed Area	PM10 Reduction	0.00	PM2.5 Reduction	0.00	Frequency (per day)	

No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	0.00		
No	Clean Paved Road	% PM Reduction	0.00				

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.10	0.03	0.10	0.03	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.55	0.15	0.55	0.15	0.00	0.00
Grading	Fugitive Dust	0.08	0.04	0.08	0.04	0.00	0.00
Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.20	0.11	0.20	0.11	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.03	16.03	16.03	16.03	16.03
Hearth	99.83	35.04	99.54	96.59	99.39	99.39	100.00	-113.33	37.89	98.96	75.42	40.06
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	1.78	2.64	3.64	4.64	4.40	4.39	0.00	4.63	4.63	3.49	0.00	4.63
Natural Gas	9.54	9.53	9.51	9.00	9.54	9.54	0.00	9.52	9.52	9.48	9.61	9.52
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	20.00	20.00	20.00	19.97	20.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting: Low Density Suburban

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	-0.01	0.13		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
Yes	Land Use	Increase Transit Accessibility	0.21	0.10		
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.05			

No	Neighborhood Enhancements	Improve Pedestrian Network				
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.05			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"	3.00			
No	Commute	Workplace Parking Charge				
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00		2.00	
No	Commute	Provide Ride Sharing Program	5.00			
	Commute	Commute Subtotal	0.00			

No	School Trip	Implement School Bus Program	0.00			
		Total VMT Reduction	0.05			

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
Yes	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
No	Use Low VOC Paint (Residential Exterior)	150.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	150.00
No	Use Low VOC Paint (Parking)	150.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Exceed Title 24	15.00	
No	Install High Efficiency Lighting	0.00	
Yes	On-site Renewable	0.00	15.00

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Apply Water Conservation on Strategy	20.00	20.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
Yes	Install low-flow bathroom faucet	32.00	
Yes	Install low-flow Kitchen faucet	18.00	
Yes	Install low-flow Toilet	20.00	
Yes	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

Mitigation Measures	Input Value

Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

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Air Quality and GHG Modeling Results
Mitigated

East 18th Street Project

Bay Area AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	216.00	Dwelling Unit	9.53	216,000.00	618
Apartments Mid Rise	178.00	Dwelling Unit	5.33	178,000.00	509

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	64
Climate Zone	4			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

East 18th Street Project - Bay Area AQMD Air District, Annual

Project Characteristics - Intensity factor for CO2 adjusted based on PG&E's RPS reductions

Land Use - Applicant provided

Construction Phase - Applicant provided

Grading - Export/import not required

Vehicle Trips - Per Hexagon Transportation Consultants, Inc.

Area Mitigation - Per BAAQMD regulations

Energy Mitigation - Applicant provided

Water Mitigation - Applicant provided

Mobile Land Use Mitigation - Applicant provided

Construction Off-road Equipment Mitigation - Applicant provided

Table Name	Column Name	Default Value	New Value
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tblConstEquipMitigation	Tier	No Change	Tier 2

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tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	300.00	434.00
tblConstructionPhase	NumDays	20.00	434.00
tblConstructionPhase	PhaseEndDate	6/14/2019	7/2/2019
tblConstructionPhase	PhaseEndDate	7/26/2019	8/2/2019
tblConstructionPhase	PhaseEndDate	10/16/2020	9/4/2019
tblConstructionPhase	PhaseEndDate	9/18/2020	5/4/2021
tblConstructionPhase	PhaseEndDate	11/13/2020	5/18/2021
tblConstructionPhase	PhaseStartDate	6/15/2019	7/3/2019
tblConstructionPhase	PhaseStartDate	9/19/2020	8/5/2019
tblConstructionPhase	PhaseStartDate	7/27/2019	9/5/2019
tblConstructionPhase	PhaseStartDate	10/17/2020	9/19/2019
tblGrading	AcresOfGrading	57.50	14.85
tblLandUse	LotAcreage	5.68	9.53

tblLandUse	LotAcreage	4.68	5.33
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblVehicleTrips	ST_TR	6.39	4.73
tblVehicleTrips	SU_TR	5.86	4.73
tblVehicleTrips	WD_TR	6.65	4.73

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	0.7622	2.5195	2.0424	4.2800e-003	0.4031	0.1245	0.5275	0.1823	0.1160	0.2983	0.0000	384.4896	384.4896	0.0698	0.0000	386.2356
2020	2.1531	3.4747	3.7038	8.8300e-003	0.3891	0.1663	0.5554	0.1043	0.1573	0.2616	0.0000	790.1584	790.1584	0.0915	0.0000	792.4466
2021	0.7734	1.0672	1.2095	2.9600e-003	0.1329	0.0480	0.1809	0.0356	0.0454	0.0810	0.0000	264.4871	264.4871	0.0301	0.0000	265.2394
Maximum	**2.1531**	**3.4747**	**3.7038**	**8.8300e-003**	**0.4031**	**0.1663**	**0.5554**	**0.1823**	**0.1573**	**0.2983**	**0.0000**	**790.1584**	**790.1584**	**0.0915**	**0.0000**	**792.4466**

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	0.6288	2.5305	2.1505	4.2800e-003	0.4031	0.0772	0.4803	0.1823	0.0771	0.2594	0.0000	384.4893	384.4893	0.0698	0.0000	386.2353
2020	2.0002	4.1345	3.8383	8.8300e-003	0.3891	0.1363	0.5254	0.1043	0.1360	0.2403	0.0000	790.1580	790.1580	0.0915	0.0000	792.4462
2021	0.7322	1.3771	1.2673	2.9600e-003	0.1329	0.0456	0.1786	0.0356	0.0455	0.0812	0.0000	264.4870	264.4870	0.0301	0.0000	265.2393
Maximum	**2.0002**	**4.1345**	**3.8383**	**8.8300e-003**	**0.4031**	**0.1363**	**0.5254**	**0.1823**	**0.1360**	**0.2594**	**0.0000**	**790.1580**	**790.1580**	**0.0915**	**0.0000**	**792.4462**

East 18th Street Project - Bay Area AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**8.88**	**-13.89**	**-4.32**	**0.00**	**0.00**	**23.51**	**6.30**	**0.00**	**18.86**	**9.38**	**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	**6-3-2019**	**9-2-2019**	1.3673	1.1831
2	**9-3-2019**	**12-2-2019**	1.4017	1.4526
3	**12-3-2019**	**3-2-2020**	1.4344	1.5362
4	**3-3-2020**	**6-2-2020**	1.4114	1.5386
5	**6-3-2020**	**9-2-2020**	1.4083	1.5355
6	**9-3-2020**	**12-2-2020**	1.3997	1.5255
7	**12-3-2020**	**3-2-2021**	1.3256	1.4969
8	**3-3-2021**	**6-2-2021**	0.9783	1.1174
		Highest	1.4344	1.5386

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	3.7227	0.0756	5.4323	5.1400e-003		0.3741	0.3741		0.3741	0.3741	35.9247	19.5348	55.4594	0.0624	2.3600e-003	57.7202
Energy	0.0184	0.1569	0.0667	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	395.6093	395.6093	0.0249	7.7600e-003	398.5428
Mobile	0.4626	2.2757	5.1898	0.0185	1.6019	0.0168	1.6187	0.4300	0.0157	0.4457	0.0000	1,701.3189	1,701.3189	0.0628	0.0000	1,702.8889
Waste						0.0000	0.0000		0.0000	0.0000	36.7901	0.0000	36.7901	2.1742	0.0000	91.1459
Water						0.0000	0.0000		0.0000	0.0000	8.1441	25.7226	33.8667	0.8391	0.0203	60.8875
Total	**4.2037**	**2.5082**	**10.6888**	**0.0247**	**1.6019**	**0.4036**	**2.0055**	**0.4300**	**0.4025**	**0.8325**	**80.8589**	**2,142.1855**	**2,223.0444**	**3.1633**	**0.0304**	**2,311.1852**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.9078	0.0610	2.9402	3.3000e-004		0.0184	0.0184		0.0184	0.0184	0.0000	36.2582	36.2582	5.2100e-003	5.8000e-004	36.5606
Energy	0.0166	0.1419	0.0604	9.1000e-004		0.0115	0.0115		0.0115	0.0115	0.0000	344.0189	344.0189	0.0211	6.7300e-003	346.5525
Mobile	0.4543	2.2156	5.0012	0.0177	1.5218	0.0161	1.5379	0.4085	0.0150	0.4235	0.0000	1,622.5958	1,622.5958	0.0606	0.0000	1,624.1109
Waste						0.0000	0.0000		0.0000	0.0000	36.7901	0.0000	36.7901	2.1742	0.0000	91.1459
Water						0.0000	0.0000		0.0000	0.0000	6.5153	20.5781	27.0934	0.6712	0.0162	48.7100
Total	**2.3787**	**2.4185**	**8.0018**	**0.0189**	**1.5218**	**0.0459**	**1.5677**	**0.4085**	**0.0449**	**0.4534**	**43.3054**	**2,023.4510**	**2,066.7564**	**2.9324**	**0.0235**	**2,147.0798**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**43.41**	**3.58**	**25.14**	**23.35**	**5.00**	**88.62**	**21.83**	**5.00**	**88.85**	**45.54**	**46.44**	**5.54**	**7.03**	**7.30**	**22.57**	**7.10**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/3/2019	7/2/2019	5	22	
2	Grading	Grading	7/3/2019	8/2/2019	5	23	
3	Building Construction	Building Construction	9/5/2019	5/4/2021	5	434	
4	Paving	Paving	8/5/2019	9/4/2019	5	23	
5	Architectural Coating	Architectural Coating	9/19/2019	5/18/2021	5	434	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 14.85

Acres of Paving: 0

Residential Indoor: 797,850; Residential Outdoor: 265,950; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	284.00	42.00	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	57.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1987	0.0000	0.1987	0.1092	0.0000	0.1092	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0477	0.5013	0.2427	4.2000e-004		0.0263	0.0263		0.0242	0.0242	0.0000	37.5856	37.5856	0.0119	0.0000	37.8829
Total	**0.0477**	**0.5013**	**0.2427**	**4.2000e-004**	**0.1987**	**0.0263**	**0.2250**	**0.1092**	**0.0242**	**0.1334**	**0.0000**	**37.5856**	**37.5856**	**0.0119**	**0.0000**	**37.8829**

3.2 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.2000e-004	5.3000e-004	5.4200e-003	2.0000e-005	1.5600e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.4153	1.4153	4.0000e-005	0.0000	1.4162
Total	**7.2000e-004**	**5.3000e-004**	**5.4200e-003**	**2.0000e-005**	**1.5600e-003**	**1.0000e-005**	**1.5800e-003**	**4.2000e-004**	**1.0000e-005**	**4.3000e-004**	**0.0000**	**1.4153**	**1.4153**	**4.0000e-005**	**0.0000**	**1.4162**

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					0.1987	0.0000	0.1987	0.1092	0.0000	0.1092	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0133	0.3709	0.2526	4.2000e-004		0.0104	0.0104		0.0104	0.0104	0.0000	37.5855	37.5855	0.0119	0.0000	37.8828
Total	**0.0133**	**0.3709**	**0.2526**	**4.2000e-004**	**0.1987**	**0.0104**	**0.2091**	**0.1092**	**0.0104**	**0.1197**	**0.0000**	**37.5855**	**37.5855**	**0.0119**	**0.0000**	**37.8828**

3.2 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.2000e-004	5.3000e-004	5.4200e-003	2.0000e-005	1.5600e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.4153	1.4153	4.0000e-005	0.0000	1.4162
Total	**7.2000e-004**	**5.3000e-004**	**5.4200e-003**	**2.0000e-005**	**1.5600e-003**	**1.0000e-005**	**1.5800e-003**	**4.2000e-004**	**1.0000e-005**	**4.3000e-004**	**0.0000**	**1.4153**	**1.4153**	**4.0000e-005**	**0.0000**	**1.4162**

3.3 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					0.0771	0.0000	0.0771	0.0389	0.0000	0.0389	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0545	0.6270	0.3838	7.1000e-004		0.0274	0.0274		0.0252	0.0252	0.0000	64.0565	64.0565	0.0203	0.0000	64.5632
Total	**0.0545**	**0.6270**	**0.3838**	**7.1000e-004**	**0.0771**	**0.0274**	**0.1045**	**0.0389**	**0.0252**	**0.0641**	**0.0000**	**64.0565**	**64.0565**	**0.0203**	**0.0000**	**64.5632**

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3000e-004	6.2000e-004	6.3000e-003	2.0000e-005	1.8200e-003	1.0000e-005	1.8300e-003	4.8000e-004	1.0000e-005	5.0000e-004	0.0000	1.6440	1.6440	4.0000e-005	0.0000	1.6451
Total	**8.3000e-004**	**6.2000e-004**	**6.3000e-003**	**2.0000e-005**	**1.8200e-003**	**1.0000e-005**	**1.8300e-003**	**4.8000e-004**	**1.0000e-005**	**5.0000e-004**	**0.0000**	**1.6440**	**1.6440**	**4.0000e-005**	**0.0000**	**1.6451**

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					0.0771	0.0000	0.0771	0.0389	0.0000	0.0389	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0208	0.5892	0.4223	7.1000e-004		0.0153	0.0153		0.0153	0.0153	0.0000	64.0564	64.0564	0.0203	0.0000	64.5631
Total	**0.0208**	**0.5892**	**0.4223**	**7.1000e-004**	**0.0771**	**0.0153**	**0.0925**	**0.0389**	**0.0153**	**0.0543**	**0.0000**	**64.0564**	**64.0564**	**0.0203**	**0.0000**	**64.5631**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.3000e-004	6.2000e-004	6.3000e-003	2.0000e-005	1.8200e-003	1.0000e-005	1.8300e-003	4.8000e-004	1.0000e-005	5.0000e-004	0.0000	1.6440	1.6440	4.0000e-005	0.0000	1.6451
Total	**8.3000e-004**	**6.2000e-004**	**6.3000e-003**	**2.0000e-005**	**1.8200e-003**	**1.0000e-005**	**1.8300e-003**	**4.8000e-004**	**1.0000e-005**	**5.0000e-004**	**0.0000**	**1.6440**	**1.6440**	**4.0000e-005**	**0.0000**	**1.6451**

3.4 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	0.0992	0.8853	0.7209	1.1300e-003		0.0542	0.0542		0.0509	0.0509	0.0000	98.7438	98.7438	0.0241	0.0000	99.3451
Total	**0.0992**	**0.8853**	**0.7209**	**1.1300e-003**		**0.0542**	**0.0542**		**0.0509**	**0.0509**	**0.0000**	**98.7438**	**98.7438**	**0.0241**	**0.0000**	**99.3451**

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.3400e-003	0.2234	0.0573	4.8000e-004	0.0116	1.5300e-003	0.0131	3.3500e-003	1.4700e-003	4.8100e-003	0.0000	46.4857	46.4857	2.5800e-003	0.0000	46.5501
Worker	0.0432	0.0320	0.3267	9.4000e-004	0.0943	6.5000e-004	0.0949	0.0251	6.0000e-004	0.0257	0.0000	85.2578	85.2578	2.2800e-003	0.0000	85.3149
Total	**0.0516**	**0.2554**	**0.3840**	**1.4200e-003**	**0.1058**	**2.1800e-003**	**0.1080**	**0.0284**	**2.0700e-003**	**0.0305**	**0.0000**	**131.7436**	**131.7436**	**4.8600e-003**	**0.0000**	**131.8651**

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	0.0454	0.9893	0.7507	1.1300e-003		0.0380	0.0380		0.0380	0.0380	0.0000	98.7437	98.7437	0.0241	0.0000	99.3450
Total	**0.0454**	**0.9893**	**0.7507**	**1.1300e-003**		**0.0380**	**0.0380**		**0.0380**	**0.0380**	**0.0000**	**98.7437**	**98.7437**	**0.0241**	**0.0000**	**99.3450**

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	8.3400e-003	0.2234	0.0573	4.8000e-004	0.0116	1.5300e-003	0.0131	3.3500e-003	1.4700e-003	4.8100e-003	0.0000	46.4857	46.4857	2.5800e-003	0.0000	46.5501
Worker	0.0432	0.0320	0.3267	9.4000e-004	0.0943	6.5000e-004	0.0949	0.0251	6.0000e-004	0.0257	0.0000	85.2578	85.2578	2.2800e-003	0.0000	85.3149
Total	**0.0516**	**0.2554**	**0.3840**	**1.4200e-003**	**0.1058**	**2.1800e-003**	**0.1080**	**0.0284**	**2.0700e-003**	**0.0305**	**0.0000**	**131.7436**	**131.7436**	**4.8600e-003**	**0.0000**	**131.8651**

3.4 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	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4091	303.4091	0.0740	0.0000	305.2596
Total	**0.2777**	**2.5134**	**2.2072**	**3.5300e-003**		**0.1463**	**0.1463**		**0.1376**	**0.1376**	**0.0000**	**303.4091**	**303.4091**	**0.0740**	**0.0000**	**305.2596**

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0213	0.6348	0.1596	1.5000e-003	0.0361	3.1000e-003	0.0392	0.0104	2.9600e-003	0.0134	0.0000	144.0531	144.0531	7.4300e-003	0.0000	144.2388
Worker	0.1233	0.0882	0.9138	2.8500e-003	0.2940	1.9800e-003	0.2960	0.0782	1.8200e-003	0.0800	0.0000	257.5561	257.5561	6.2300e-003	0.0000	257.7119
Total	**0.1446**	**0.7230**	**1.0734**	**4.3500e-003**	**0.3301**	**5.0800e-003**	**0.3351**	**0.0886**	**4.7800e-003**	**0.0934**	**0.0000**	**401.6091**	**401.6091**	**0.0137**	**0.0000**	**401.9507**

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	0.1416	3.0856	2.3415	3.5300e-003		0.1184	0.1184		0.1184	0.1184	0.0000	303.4087	303.4087	0.0740	0.0000	305.2592
Total	**0.1416**	**3.0856**	**2.3415**	**3.5300e-003**		**0.1184**	**0.1184**		**0.1184**	**0.1184**	**0.0000**	**303.4087**	**303.4087**	**0.0740**	**0.0000**	**305.2592**

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0213	0.6348	0.1596	1.5000e-003	0.0361	3.1000e-003	0.0392	0.0104	2.9600e-003	0.0134	0.0000	144.0531	144.0531	7.4300e-003	0.0000	144.2388
Worker	0.1233	0.0882	0.9138	2.8500e-003	0.2940	1.9800e-003	0.2960	0.0782	1.8200e-003	0.0800	0.0000	257.5561	257.5561	6.2300e-003	0.0000	257.7119
Total	**0.1446**	**0.7230**	**1.0734**	**4.3500e-003**	**0.3301**	**5.0800e-003**	**0.3351**	**0.0886**	**4.7800e-003**	**0.0934**	**0.0000**	**401.6091**	**401.6091**	**0.0137**	**0.0000**	**401.9507**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0836	0.7670	0.7293	1.1800e-003		0.0422	0.0422		0.0397	0.0397	0.0000	101.9204	101.9204	0.0246	0.0000	102.5351
Total	**0.0836**	**0.7670**	**0.7293**	**1.1800e-003**		**0.0422**	**0.0422**		**0.0397**	**0.0397**	**0.0000**	**101.9204**	**101.9204**	**0.0246**	**0.0000**	**102.5351**

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.8700e-003	0.1930	0.0482	5.0000e-004	0.0121	4.2000e-004	0.0125	3.5100e-003	4.0000e-004	3.9100e-003	0.0000	47.9268	47.9268	2.3600e-003	0.0000	47.9857
Worker	0.0384	0.0265	0.2803	9.2000e-004	0.0987	6.5000e-004	0.0994	0.0263	5.9000e-004	0.0269	0.0000	83.4720	83.4720	1.8700e-003	0.0000	83.5188
Total	**0.0442**	**0.2195**	**0.3285**	**1.4200e-003**	**0.1109**	**1.0700e-003**	**0.1119**	**0.0298**	**9.9000e-004**	**0.0308**	**0.0000**	**131.3988**	**131.3988**	**4.2300e-003**	**0.0000**	**131.5045**

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	0.0476	1.0364	0.7865	1.1800e-003		0.0398	0.0398		0.0398	0.0398	0.0000	101.9203	101.9203	0.0246	0.0000	102.5350
Total	**0.0476**	**1.0364**	**0.7865**	**1.1800e-003**		**0.0398**	**0.0398**		**0.0398**	**0.0398**	**0.0000**	**101.9203**	**101.9203**	**0.0246**	**0.0000**	**102.5350**

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.8700e-003	0.1930	0.0482	5.0000e-004	0.0121	4.2000e-004	0.0125	3.5100e-003	4.0000e-004	3.9100e-003	0.0000	47.9268	47.9268	2.3600e-003	0.0000	47.9857
Worker	0.0384	0.0265	0.2803	9.2000e-004	0.0987	6.5000e-004	0.0994	0.0263	5.9000e-004	0.0269	0.0000	83.4720	83.4720	1.8700e-003	0.0000	83.5188
Total	**0.0442**	**0.2195**	**0.3285**	**1.4200e-003**	**0.1109**	**1.0700e-003**	**0.1119**	**0.0298**	**9.9000e-004**	**0.0308**	**0.0000**	**131.3988**	**131.3988**	**4.2300e-003**	**0.0000**	**131.5045**

3.5 Paving - 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	0.0167	0.1753	0.1687	2.6000e-004		9.4800e-003	9.4800e-003		8.7200e-003	8.7200e-003	0.0000	23.5465	23.5465	7.4500e-003	0.0000	23.7327
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0167**	**0.1753**	**0.1687**	**2.6000e-004**		**9.4800e-003**	**9.4800e-003**		**8.7200e-003**	**8.7200e-003**	**0.0000**	**23.5465**	**23.5465**	**7.4500e-003**	**0.0000**	**23.7327**

3.5 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.3000e-004	4.6000e-004	4.7200e-003	1.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.2330	1.2330	3.0000e-005	0.0000	1.2338
Total	**6.3000e-004**	**4.6000e-004**	**4.7200e-003**	**1.0000e-005**	**1.3600e-003**	**1.0000e-005**	**1.3700e-003**	**3.6000e-004**	**1.0000e-005**	**3.7000e-004**	**0.0000**	**1.2330**	**1.2330**	**3.0000e-005**	**0.0000**	**1.2338**

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	0.0107	0.2313	0.1989	2.6000e-004		7.6700e-003	7.6700e-003		7.6700e-003	7.6700e-003	0.0000	23.5464	23.5464	7.4500e-003	0.0000	23.7327
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0107**	**0.2313**	**0.1989**	**2.6000e-004**		**7.6700e-003**	**7.6700e-003**		**7.6700e-003**	**7.6700e-003**	**0.0000**	**23.5464**	**23.5464**	**7.4500e-003**	**0.0000**	**23.7327**

3.5 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.3000e-004	4.6000e-004	4.7200e-003	1.0000e-005	1.3600e-003	1.0000e-005	1.3700e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.2330	1.2330	3.0000e-005	0.0000	1.2338
Total	**6.3000e-004**	**4.6000e-004**	**4.7200e-003**	**1.0000e-005**	**1.3600e-003**	**1.0000e-005**	**1.3700e-003**	**3.6000e-004**	**1.0000e-005**	**3.7000e-004**	**0.0000**	**1.2330**	**1.2330**	**3.0000e-005**	**0.0000**	**1.2338**

3.6 Architectural Coating - 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					
Archit. Coating	0.4729					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.8600e-003	0.0679	0.0681	1.1000e-004		4.7600e-003	4.7600e-003		4.7600e-003	4.7600e-003	0.0000	9.4470	9.4470	8.0000e-004	0.0000	9.4670
Total	**0.4828**	**0.0679**	**0.0681**	**1.1000e-004**		**4.7600e-003**	**4.7600e-003**		**4.7600e-003**	**4.7600e-003**	**0.0000**	**9.4470**	**9.4470**	**8.0000e-004**	**0.0000**	**9.4670**

3.6 Architectural Coating - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.6500e-003	5.6600e-003	0.0578	1.7000e-004	0.0167	1.1000e-004	0.0168	4.4300e-003	1.1000e-004	4.5400e-003	0.0000	15.0745	15.0745	4.0000e-004	0.0000	15.0846
Total	**7.6500e-003**	**5.6600e-003**	**0.0578**	**1.7000e-004**	**0.0167**	**1.1000e-004**	**0.0168**	**4.4300e-003**	**1.1000e-004**	**4.5400e-003**	**0.0000**	**15.0745**	**15.0745**	**4.0000e-004**	**0.0000**	**15.0846**

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	0.4729					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.2100e-003	0.0870	0.0678	1.1000e-004		3.5200e-003	3.5200e-003		3.5200e-003	3.5200e-003	0.0000	9.4470	9.4470	8.0000e-004	0.0000	9.4670
Total	**0.4771**	**0.0870**	**0.0678**	**1.1000e-004**		**3.5200e-003**	**3.5200e-003**		**3.5200e-003**	**3.5200e-003**	**0.0000**	**9.4470**	**9.4470**	**8.0000e-004**	**0.0000**	**9.4670**

3.6 Architectural Coating - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.6500e-003	5.6600e-003	0.0578	1.7000e-004	0.0167	1.1000e-004	0.0168	4.4300e-003	1.1000e-004	4.5400e-003	0.0000	15.0745	15.0745	4.0000e-004	0.0000	15.0846
Total	**7.6500e-003**	**5.6600e-003**	**0.0578**	**1.7000e-004**	**0.0167**	**1.1000e-004**	**0.0168**	**4.4300e-003**	**1.1000e-004**	**4.5400e-003**	**0.0000**	**15.0745**	**15.0745**	**4.0000e-004**	**0.0000**	**15.0846**

3.6 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	1.6743					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0317	0.2206	0.2399	3.9000e-004		0.0145	0.0145		0.0145	0.0145	0.0000	33.4476	33.4476	2.5900e-003	0.0000	33.5124
Total	**1.7061**	**0.2206**	**0.2399**	**3.9000e-004**		**0.0145**	**0.0145**		**0.0145**	**0.0145**	**0.0000**	**33.4476**	**33.4476**	**2.5900e-003**	**0.0000**	**33.5124**

3.6 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0248	0.0177	0.1834	5.7000e-004	0.0590	4.0000e-004	0.0594	0.0157	3.7000e-004	0.0161	0.0000	51.6926	51.6926	1.2500e-003	0.0000	51.7239
Total	**0.0248**	**0.0177**	**0.1834**	**5.7000e-004**	**0.0590**	**4.0000e-004**	**0.0594**	**0.0157**	**3.7000e-004**	**0.0161**	**0.0000**	**51.6926**	**51.6926**	**1.2500e-003**	**0.0000**	**51.7239**

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	1.6743					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0149	0.3082	0.2401	3.9000e-004		0.0125	0.0125		0.0125	0.0125	0.0000	33.4476	33.4476	2.5900e-003	0.0000	33.5123
Total	**1.6893**	**0.3082**	**0.2401**	**3.9000e-004**		**0.0125**	**0.0125**		**0.0125**	**0.0125**	**0.0000**	**33.4476**	**33.4476**	**2.5900e-003**	**0.0000**	**33.5123**

3.6 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0248	0.0177	0.1834	5.7000e-004	0.0590	4.0000e-004	0.0594	0.0157	3.7000e-004	0.0161	0.0000	51.6926	51.6926	1.2500e-003	0.0000	51.7239
Total	**0.0248**	**0.0177**	**0.1834**	**5.7000e-004**	**0.0590**	**4.0000e-004**	**0.0594**	**0.0157**	**3.7000e-004**	**0.0161**	**0.0000**	**51.6926**	**51.6926**	**1.2500e-003**	**0.0000**	**51.7239**

3.6 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	0.6263					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0107	0.0748	0.0891	1.5000e-004		4.6100e-003	4.6100e-003		4.6100e-003	4.6100e-003	0.0000	12.5109	12.5109	8.6000e-004	0.0000	12.5324
Total	**0.6370**	**0.0748**	**0.0891**	**1.5000e-004**		**4.6100e-003**	**4.6100e-003**		**4.6100e-003**	**4.6100e-003**	**0.0000**	**12.5109**	**12.5109**	**8.6000e-004**	**0.0000**	**12.5324**

3.6 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.5700e-003	5.9100e-003	0.0626	2.1000e-004	0.0221	1.4000e-004	0.0222	5.8700e-003	1.3000e-004	6.0000e-003	0.0000	18.6570	18.6570	4.2000e-004	0.0000	18.6674
Total	**8.5700e-003**	**5.9100e-003**	**0.0626**	**2.1000e-004**	**0.0221**	**1.4000e-004**	**0.0222**	**5.8700e-003**	**1.3000e-004**	**6.0000e-003**	**0.0000**	**18.6570**	**18.6570**	**4.2000e-004**	**0.0000**	**18.6674**

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	0.6263					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5800e-003	0.1153	0.0898	1.5000e-004		4.6600e-003	4.6600e-003		4.6600e-003	4.6600e-003	0.0000	12.5109	12.5109	8.6000e-004	0.0000	12.5324
Total	**0.6319**	**0.1153**	**0.0898**	**1.5000e-004**		**4.6600e-003**	**4.6600e-003**		**4.6600e-003**	**4.6600e-003**	**0.0000**	**12.5109**	**12.5109**	**8.6000e-004**	**0.0000**	**12.5324**

3.6 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.5700e-003	5.9100e-003	0.0626	2.1000e-004	0.0221	1.4000e-004	0.0222	5.8700e-003	1.3000e-004	6.0000e-003	0.0000	18.6570	18.6570	4.2000e-004	0.0000	18.6674
Total	**8.5700e-003**	**5.9100e-003**	**0.0626**	**2.1000e-004**	**0.0221**	**1.4000e-004**	**0.0222**	**5.8700e-003**	**1.3000e-004**	**6.0000e-003**	**0.0000**	**18.6570**	**18.6570**	**4.2000e-004**	**0.0000**	**18.6674**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4543	2.2156	5.0012	0.0177	1.5218	0.0161	1.5379	0.4085	0.0150	0.4235	0.0000	1,622.5958	1,622.5958	0.0606	0.0000	1,624.1109
Unmitigated	0.4626	2.2757	5.1898	0.0185	1.6019	0.0168	1.6187	0.4300	0.0157	0.4457	0.0000	1,701.3189	1,701.3189	0.0628	0.0000	1,702.8889

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,021.68	1,021.68	1021.68	2,359,680	2,241,696
Apartments Mid Rise	841.94	841.94	841.94	1,944,551	1,847,323
Total	1,863.62	1,863.62	1,863.62	4,304,230	4,089,019

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
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	0.576985	0.039376	0.193723	0.112069	0.016317	0.005358	0.017943	0.025814	0.002614	0.002274	0.005874	0.000887	0.000768

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Percent of Electricity Use Generated with Renewable 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	179.6684	179.6684	0.0180	3.7200e-003	181.2253
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	213.9619	213.9619	0.0214	4.4300e-003	215.8160
NaturalGas Mitigated	0.0166	0.1419	0.0604	9.1000e-004		0.0115	0.0115		0.0115	0.0115	0.0000	164.3505	164.3505	3.1500e-003	3.0100e-003	165.3272
NaturalGas Unmitigated	0.0184	0.1569	0.0667	1.0000e-003		0.0127	0.0127		0.0127	0.0127	0.0000	181.6474	181.6474	3.4800e-003	3.3300e-003	182.7268

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	1.53782e+006	8.2900e-003	0.0709	0.0302	4.5000e-004		5.7300e-003	5.7300e-003		5.7300e-003	5.7300e-003	0.0000	82.0640	82.0640	1.5700e-003	1.5000e-003	82.5517
Apartments Mid Rise	1.86612e+006	0.0101	0.0860	0.0366	5.5000e-004		6.9500e-003	6.9500e-003		6.9500e-003	6.9500e-003	0.0000	99.5833	99.5833	1.9100e-003	1.8300e-003	100.1751
Total		**0.0184**	**0.1569**	**0.0667**	**1.0000e-003**		**0.0127**	**0.0127**		**0.0127**	**0.0127**	**0.0000**	**181.6474**	**181.6474**	**3.4800e-003**	**3.3300e-003**	**182.7268**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.39139e+006	7.5000e-003	0.0641	0.0273	4.1000e-004		5.1800e-003	5.1800e-003		5.1800e-003	5.1800e-003	0.0000	74.2497	74.2497	1.4200e-003	1.3600e-003	74.6910
Apartments Mid Rise	1.68843e+006	9.1000e-003	0.0778	0.0331	5.0000e-004		6.2900e-003	6.2900e-003		6.2900e-003	6.2900e-003	0.0000	90.1008	90.1008	1.7300e-003	1.6500e-003	90.6362
Total		**0.0166**	**0.1419**	**0.0604**	**9.1000e-004**		**0.0115**	**0.0115**		**0.0115**	**0.0115**	**0.0000**	**164.3505**	**164.3505**	**3.1500e-003**	**3.0100e-003**	**165.3272**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	734846	96.6630	9.6700e-003	2.0000e-003	97.5006
Apartments Mid Rise	891724	117.2989	0.0117	2.4300e-003	118.3154
Total		**213.9619**	**0.0214**	**4.4300e-003**	**215.8160**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	617066	81.1700	8.1200e-003	1.6800e-003	81.8734
Apartments Mid Rise	748799	98.4984	9.8500e-003	2.0400e-003	99.3520
Total		**179.6684**	**0.0180**	**3.7200e-003**	**181.2253**

6.0 Area Detail

6.1 Mitigation Measures Area

Mitigated

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.9078	0.0610	2.9402	3.3000e-004		0.0184	0.0184		0.0184	0.0184	0.0000	36.2582	36.2582	5.2100e-003	5.8000e-004	36.5606
Unmitigated	3.7227	0.0756	5.4323	5.1400e-003		0.3741	0.3741		0.3741	0.3741	35.9247	19.5348	55.4594	0.0624	2.3600e-003	57.7202

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	0.2774					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.5388					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.8182	0.0418	2.5036	4.9800e-003		0.3579	0.3579		0.3579	0.3579	35.9247	14.7560	50.6807	0.0577	2.3600e-003	52.8262
Landscaping	0.0885	0.0338	2.9286	1.5000e-004		0.0162	0.0162		0.0162	0.0162	0.0000	4.7788	4.7788	4.6100e-003	0.0000	4.8940
Total	**3.7227**	**0.0756**	**5.4323**	**5.1300e-003**		**0.3741**	**0.3741**		**0.3741**	**0.3741**	**35.9247**	**19.5348**	**55.4594**	**0.0624**	**2.3600e-003**	**57.7202**

Mitigated

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2774					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.5388					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.1800e-003	0.0272	0.0116	1.7000e-004		2.2000e-003	2.2000e-003		2.2000e-003	2.2000e-003	0.0000	31.4795	31.4795	6.0000e-004	5.8000e-004	31.6665
Landscaping	0.0885	0.0338	2.9286	1.5000e-004		0.0162	0.0162		0.0162	0.0162	0.0000	4.7788	4.7788	4.6100e-003	0.0000	4.8940
Total	**1.9078**	**0.0610**	**2.9402**	**3.2000e-004**		**0.0184**	**0.0184**		**0.0184**	**0.0184**	**0.0000**	**36.2582**	**36.2582**	**5.2100e-003**	**5.8000e-004**	**36.5605**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	27.0934	0.6712	0.0162	48.7100
Unmitigated	33.8667	0.8391	0.0203	60.8875

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	25.6707 / 16.1837	33.8667	0.8391	0.0203	60.8875
Total		**33.8667**	**0.8391**	**0.0203**	**60.8875**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	20.5365 / 12.947	27.0934	0.6712	0.0162	48.7100
Total		**27.0934**	**0.6712**	**0.0162**	**48.7100**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	36.7901	2.1742	0.0000	91.1459
Unmitigated	36.7901	2.1742	0.0000	91.1459

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	181.24	36.7901	2.1742	0.0000	91.1459
Total		**36.7901**	**2.1742**	**0.0000**	**91.1459**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	181.24	36.7901	2.1742	0.0000	91.1459
Total		**36.7901**	**2.1742**	**0.0000**	**91.1459**

9.0 Operational Offroad

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

Mitigated

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

East 18th Street Project

Bay Area AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	216.00	Dwelling Unit	9.53	216,000.00	618
Apartments Mid Rise	178.00	Dwelling Unit	5.33	178,000.00	509

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	64
Climate Zone	4			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

East 18th Street Project - Bay Area AQMD Air District, Summer

Project Characteristics - Intensity factor for CO2 adjusted based on PG&E's RPS reductions

Land Use - Applicant provided

Construction Phase - Applicant provided

Grading - Export/import not required

Vehicle Trips - Per Hexagon Transportation Consultants, Inc.

Area Mitigation - Per BAAQMD regulations

Energy Mitigation - Applicant provided

Water Mitigation - Applicant provided

Mobile Land Use Mitigation - Applicant provided

Construction Off-road Equipment Mitigation - Applicant provided

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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tblConstructionPhase	NumDays	20.00	23.00
tblConstructionPhase	NumDays	300.00	434.00
tblConstructionPhase	NumDays	20.00	434.00
tblConstructionPhase	PhaseEndDate	6/14/2019	7/2/2019
tblConstructionPhase	PhaseEndDate	7/26/2019	8/2/2019
tblConstructionPhase	PhaseEndDate	10/16/2020	9/4/2019
tblConstructionPhase	PhaseEndDate	9/18/2020	5/4/2021
tblConstructionPhase	PhaseEndDate	11/13/2020	5/18/2021
tblConstructionPhase	PhaseStartDate	6/15/2019	7/3/2019
tblConstructionPhase	PhaseStartDate	9/19/2020	8/5/2019
tblConstructionPhase	PhaseStartDate	7/27/2019	9/5/2019
tblConstructionPhase	PhaseStartDate	10/17/2020	9/19/2019
tblGrading	AcresOfGrading	57.50	14.85
tblLandUse	LotAcreage	5.68	9.53

tblLandUse	LotAcreage	4.68	5.33
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblVehicleTrips	ST_TR	6.39	4.73
tblVehicleTrips	SU_TR	5.86	4.73
tblVehicleTrips	WD_TR	6.65	4.73

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	16.9004	54.5678	33.9731	0.0705	18.2141	2.3913	20.6055	9.9699	2.2000	12.1699	0.0000	6,995.6543	6,995.6543	1.9472	0.0000	7,015.5825
2020	16.4877	26.3739	28.9708	0.0695	3.0855	1.2696	4.3551	0.8249	1.2004	2.0253	0.0000	6,858.5330	6,858.5330	0.7724	0.0000	6,877.8436
2021	16.1278	23.9401	27.7923	0.0684	3.0855	1.0797	4.1653	0.8249	1.0206	1.8455	0.0000	6,749.0198	6,749.0198	0.7527	0.0000	6,767.8363
Maximum	**16.9004**	**54.5678**	**33.9731**	**0.0705**	**18.2141**	**2.3913**	**20.6055**	**9.9699**	**2.2000**	**12.1699**	**0.0000**	**6,995.6543**	**6,995.6543**	**1.9472**	**0.0000**	**7,015.5825**

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	15.4676	51.2863	37.3190	0.0705	18.2141	1.3344	19.1613	9.9699	1.3343	10.9170	0.0000	6,995.6543	6,995.6543	1.9472	0.0000	7,015.5825
2020	15.3205	31.4108	29.9971	0.0695	3.0855	1.0402	4.1258	0.8249	1.0378	1.8626	0.0000	6,858.5330	6,858.5330	0.7724	0.0000	6,877.8436
2021	15.2027	30.8879	29.1057	0.0684	3.0855	1.0257	4.1112	0.8249	1.0239	1.8487	0.0000	6,749.0198	6,749.0198	0.7527	0.0000	6,767.8362
Maximum	**15.4676**	**51.2863**	**37.3190**	**0.0705**	**18.2141**	**1.3344**	**19.1613**	**9.9699**	**1.3343**	**10.9170**	**0.0000**	**6,995.6543**	**6,995.6543**	**1.9472**	**0.0000**	**7,015.5825**

East 18th Street Project - Bay Area AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	7.12	-8.30	-6.27	0.00	0.00	28.27	5.93	0.00	23.19	8.80	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	335.0072	7.5397	460.7049	0.8266		60.9640	60.9640		60.9640	60.9640	6,596.2268	2,978.7649	9,574.9918	9.0831	0.4662	9,941.0076
Energy	0.1006	0.8594	0.3657	5.4900e-003		0.0695	0.0695		0.0695	0.0695		1,097.1614	1,097.1614	0.0210	0.0201	1,103.6813
Mobile	2.9122	12.1326	29.6293	0.1078	9.1444	0.0921	9.2366	2.4466	0.0863	2.5328		10,902.6173	10,902.6173	0.3823		10,912.1752
Total	**338.0199**	**20.5317**	**490.6999**	**0.9399**	**9.1444**	**61.1256**	**70.2701**	**2.4466**	**61.1198**	**63.5663**	**6,596.2268**	**14,978.5436**	**21,574.7704**	**9.4864**	**0.4864**	**21,956.8641**

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	11.5053	5.2553	34.6171	0.0329		0.5744	0.5744		0.5744	0.5744	0.0000	6,288.3649	6,288.3649	0.1759	0.1142	6,326.7974
Energy	0.0910	0.7776	0.3309	4.9600e-003		0.0629	0.0629		0.0629	0.0629		992.6873	992.6873	0.0190	0.0182	998.5863
Mobile	2.8658	11.8217	28.4596	0.1028	8.6872	0.0881	8.7753	2.3242	0.0825	2.4067		10,397.4260	10,397.4260	0.3684		10,406.6361
Total	**14.4621**	**17.8546**	**63.4076**	**0.1406**	**8.6872**	**0.7253**	**9.4125**	**2.3242**	**0.7197**	**3.0439**	**0.0000**	**17,678.4783**	**17,678.4783**	**0.5633**	**0.1324**	**17,732.0198**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**95.72**	**13.04**	**87.08**	**85.04**	**5.00**	**98.81**	**86.61**	**5.00**	**98.82**	**95.21**	**100.00**	**-18.03**	**18.06**	**94.06**	**72.77**	**19.24**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/3/2019	7/2/2019	5	22	
2	Grading	Grading	7/3/2019	8/2/2019	5	23	
3	Building Construction	Building Construction	9/5/2019	5/4/2021	5	434	
4	Paving	Paving	8/5/2019	9/4/2019	5	23	
5	Architectural Coating	Architectural Coating	9/19/2019	5/18/2021	5	434	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 14.85

Acres of Paving: 0

Residential Indoor: 797,850; Residential Outdoor: 265,950; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	284.00	42.00	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	57.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

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

3.2 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0685	0.0429	0.5367	1.5300e-003	0.1479	9.8000e-004	0.1488	0.0392	9.0000e-004	0.0401		152.5352	152.5352	4.0600e-003		152.6366
Total	**0.0685**	**0.0429**	**0.5367**	**1.5300e-003**	**0.1479**	**9.8000e-004**	**0.1488**	**0.0392**	**9.0000e-004**	**0.0401**		**152.5352**	**152.5352**	**4.0600e-003**		**152.6366**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	1.2097	33.7214	22.9600	0.0380		0.9462	0.9462		0.9462	0.9462	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
Total	**1.2097**	**33.7214**	**22.9600**	**0.0380**	**18.0663**	**0.9462**	**19.0124**	**9.9307**	**0.9462**	**10.8769**	**0.0000**	**3,766.4529**	**3,766.4529**	**1.1917**		**3,796.2445**

3.2 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0685	0.0429	0.5367	1.5300e-003	0.1479	9.8000e-004	0.1488	0.0392	9.0000e-004	0.0401		152.5352	152.5352	4.0600e-003		152.6366
Total	**0.0685**	**0.0429**	**0.5367**	**1.5300e-003**	**0.1479**	**9.8000e-004**	**0.1488**	**0.0392**	**9.0000e-004**	**0.0401**		**152.5352**	**152.5352**	**4.0600e-003**		**152.6366**

3.3 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					6.7068	0.0000	6.7068	3.3842	0.0000	3.3842			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.0195	6,140.0195	1.9426		6,188.5854
Total	**4.7389**	**54.5202**	**33.3768**	**0.0620**	**6.7068**	**2.3827**	**9.0895**	**3.3842**	**2.1920**	**5.5762**		**6,140.0195**	**6,140.0195**	**1.9426**		**6,188.5854**

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	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	0.0761	0.0476	0.5964	1.7000e-003	0.1643	1.0900e-003	0.1654	0.0436	1.0000e-003	0.0446		169.4836	169.4836	4.5100e-003		169.5962
Total	**0.0761**	**0.0476**	**0.5964**	**1.7000e-003**	**0.1643**	**1.0900e-003**	**0.1654**	**0.0436**	**1.0000e-003**	**0.0446**		**169.4836**	**169.4836**	**4.5100e-003**		**169.5962**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.7068	0.0000	6.7068	3.3842	0.0000	3.3842			0.0000			0.0000
Off-Road	1.8106	51.2386	36.7226	0.0620		1.3333	1.3333		1.3333	1.3333	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854
Total	**1.8106**	**51.2386**	**36.7226**	**0.0620**	**6.7068**	**1.3333**	**8.0401**	**3.3842**	**1.3333**	**4.7175**	**0.0000**	**6,140.0195**	**6,140.0195**	**1.9426**		**6,188.5854**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	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	0.0761	0.0476	0.5964	1.7000e-003	0.1643	1.0900e-003	0.1654	0.0436	1.0000e-003	0.0446		169.4836	169.4836	4.5100e-003		169.5962
Total	**0.0761**	**0.0476**	**0.5964**	**1.7000e-003**	**0.1643**	**1.0900e-003**	**0.1654**	**0.0436**	**1.0000e-003**	**0.0446**		**169.4836**	**169.4836**	**4.5100e-003**		**169.5962**

3.4 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	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**		**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1948	5.2455	1.2809	0.0117	0.2843	0.0363	0.3206	0.0818	0.0347	0.1166		1,232.9313	1,232.9313	0.0652		1,234.5612
Worker	1.0800	0.6765	8.4684	0.0242	2.3330	0.0155	2.3484	0.6188	0.0142	0.6331		2,406.6667	2,406.6667	0.0640		2,408.2662
Total	**1.2748**	**5.9220**	**9.7493**	**0.0358**	**2.6173**	**0.0517**	**2.6690**	**0.7007**	**0.0490**	**0.7496**		**3,639.5980**	**3,639.5980**	**0.1292**		**3,642.8274**

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	1.0809	23.5544	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**1.0809**	**23.5544**	**17.8738**	**0.0269**		**0.9036**	**0.9036**		**0.9036**	**0.9036**	**0.0000**	**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1948	5.2455	1.2809	0.0117	0.2843	0.0363	0.3206	0.0818	0.0347	0.1166		1,232.9313	1,232.9313	0.0652		1,234.5612
Worker	1.0800	0.6765	8.4684	0.0242	2.3330	0.0155	2.3484	0.6188	0.0142	0.6331		2,406.6667	2,406.6667	0.0640		2,408.2662
Total	**1.2748**	**5.9220**	**9.7493**	**0.0358**	**2.6173**	**0.0517**	**2.6690**	**0.7007**	**0.0490**	**0.7496**		**3,639.5980**	**3,639.5980**	**0.1292**		**3,642.8274**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**		**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1592	4.7864	1.1417	0.0116	0.2843	0.0235	0.3078	0.0818	0.0225	0.1043		1,225.1738	1,225.1738	0.0603		1,226.6822
Worker	0.9871	0.5976	7.6198	0.0234	2.3330	0.0151	2.3481	0.6188	0.0139	0.6327		2,331.0054	2,331.0054	0.0562		2,332.4097
Total	**1.1463**	**5.3841**	**8.7616**	**0.0350**	**2.6173**	**0.0386**	**2.6559**	**0.7007**	**0.0364**	**0.7370**		**3,556.1792**	**3,556.1792**	**0.1165**		**3,559.0918**

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	1.0809	23.5544	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**1.0809**	**23.5544**	**17.8738**	**0.0269**		**0.9036**	**0.9036**		**0.9036**	**0.9036**	**0.0000**	**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1592	4.7864	1.1417	0.0116	0.2843	0.0235	0.3078	0.0818	0.0225	0.1043		1,225.1738	1,225.1738	0.0603		1,226.6822
Worker	0.9871	0.5976	7.6198	0.0234	2.3330	0.0151	2.3481	0.6188	0.0139	0.6327		2,331.0054	2,331.0054	0.0562		2,332.4097
Total	**1.1463**	**5.3841**	**8.7616**	**0.0350**	**2.6173**	**0.0386**	**2.6559**	**0.7007**	**0.0364**	**0.7370**		**3,556.1792**	**3,556.1792**	**0.1165**		**3,559.0918**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

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

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1303	4.3403	1.0235	0.0115	0.2843	9.4000e-003	0.2937	0.0818	8.9900e-003	0.0908		1,213.6259	1,213.6259	0.0570		1,215.0499
Worker	0.9132	0.5337	6.9759	0.0226	2.3330	0.0147	2.3477	0.6188	0.0135	0.6323		2,249.1650	2,249.1650	0.0503		2,250.4220
Total	**1.0434**	**4.8740**	**7.9994**	**0.0340**	**2.6173**	**0.0241**	**2.6414**	**0.7007**	**0.0225**	**0.7232**		**3,462.7909**	**3,462.7909**	**0.1072**		**3,465.4719**

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	1.0809	23.5544	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.0809**	**23.5544**	**17.8738**	**0.0269**		**0.9036**	**0.9036**		**0.9036**	**0.9036**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1303	4.3403	1.0235	0.0115	0.2843	9.4000e-003	0.2937	0.0818	8.9900e-003	0.0908		1,213.6259	1,213.6259	0.0570		1,215.0499
Worker	0.9132	0.5337	6.9759	0.0226	2.3330	0.0147	2.3477	0.6188	0.0135	0.6323		2,249.1650	2,249.1650	0.0503		2,250.4220
Total	**1.0434**	**4.8740**	**7.9994**	**0.0340**	**2.6173**	**0.0241**	**2.6414**	**0.7007**	**0.0225**	**0.7232**		**3,462.7909**	**3,462.7909**	**0.1072**		**3,465.4719**

3.5 Paving - 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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4544**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**		**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

3.5 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0570	0.0357	0.4473	1.2800e-003	0.1232	8.2000e-004	0.1240	0.0327	7.5000e-004	0.0334		127.1127	127.1127	3.3800e-003		127.1972
Total	**0.0570**	**0.0357**	**0.4473**	**1.2800e-003**	**0.1232**	**8.2000e-004**	**0.1240**	**0.0327**	**7.5000e-004**	**0.0334**		**127.1127**	**127.1127**	**3.3800e-003**		**127.1972**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9311	20.1146	17.2957	0.0228		0.6670	0.6670		0.6670	0.6670	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9311**	**20.1146**	**17.2957**	**0.0228**		**0.6670**	**0.6670**		**0.6670**	**0.6670**	**0.0000**	**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

3.5 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0570	0.0357	0.4473	1.2800e-003	0.1232	8.2000e-004	0.1240	0.0327	7.5000e-004	0.0334		127.1127	127.1127	3.3800e-003		127.1972
Total	**0.0570**	**0.0357**	**0.4473**	**1.2800e-003**	**0.1232**	**8.2000e-004**	**0.1240**	**0.0327**	**7.5000e-004**	**0.0334**		**127.1127**	**127.1127**	**3.3800e-003**		**127.1972**

3.6 Architectural Coating - 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					
Archit. Coating	12.7812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	**13.0477**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**		**281.4481**	**281.4481**	**0.0238**		**282.0423**

3.6 Architectural Coating - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2168	0.1358	1.6997	4.8500e-003	0.4682	3.1000e-003	0.4713	0.1242	2.8600e-003	0.1271		483.0282	483.0282	0.0128		483.3492
Total	**0.2168**	**0.1358**	**1.6997**	**4.8500e-003**	**0.4682**	**3.1000e-003**	**0.4713**	**0.1242**	**2.8600e-003**	**0.1271**		**483.0282**	**483.0282**	**0.0128**		**483.3492**

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	12.7812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1139	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0238		282.0423
Total	**12.8951**	**2.3524**	**1.8324**	**2.9700e-003**		**0.0951**	**0.0951**		**0.0951**	**0.0951**	**0.0000**	**281.4481**	**281.4481**	**0.0238**		**282.0423**

3.6 Architectural Coating - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2168	0.1358	1.6997	4.8500e-003	0.4682	3.1000e-003	0.4713	0.1242	2.8600e-003	0.1271		483.0282	483.0282	0.0128		483.3492
Total	**0.2168**	**0.1358**	**1.6997**	**4.8500e-003**	**0.4682**	**3.1000e-003**	**0.4713**	**0.1242**	**2.8600e-003**	**0.1271**		**483.0282**	**483.0282**	**0.0128**		**483.3492**

3.6 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	12.7812					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	**13.0234**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**		**281.4481**	**281.4481**	**0.0218**		**281.9928**

3.6 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1981	0.1199	1.5293	4.6900e-003	0.4682	3.0300e-003	0.4713	0.1242	2.7900e-003	0.1270		467.8426	467.8426	0.0113		468.1245
Total	**0.1981**	**0.1199**	**1.5293**	**4.6900e-003**	**0.4682**	**3.0300e-003**	**0.4713**	**0.1242**	**2.7900e-003**	**0.1270**		**467.8426**	**467.8426**	**0.0113**		**468.1245**

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	12.7812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1139	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0218		281.9928
Total	**12.8951**	**2.3524**	**1.8324**	**2.9700e-003**		**0.0951**	**0.0951**		**0.0951**	**0.0951**	**0.0000**	**281.4481**	**281.4481**	**0.0218**		**281.9928**

3.6 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1981	0.1199	1.5293	4.6900e-003	0.4682	3.0300e-003	0.4713	0.1242	2.7900e-003	0.1270		467.8426	467.8426	0.0113		468.1245
Total	**0.1981**	**0.1199**	**1.5293**	**4.6900e-003**	**0.4682**	**3.0300e-003**	**0.4713**	**0.1242**	**2.7900e-003**	**0.1270**		**467.8426**	**467.8426**	**0.0113**		**468.1245**

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	12.7812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**13.0001**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1833	0.1071	1.4001	4.5300e-003	0.4682	2.9500e-003	0.4712	0.1242	2.7100e-003	0.1269		451.4169	451.4169	0.0101		451.6692
Total	**0.1833**	**0.1071**	**1.4001**	**4.5300e-003**	**0.4682**	**2.9500e-003**	**0.4712**	**0.1242**	**2.7100e-003**	**0.1269**		**451.4169**	**451.4169**	**0.0101**		**451.6692**

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	12.7812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1139	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**12.8951**	**2.3524**	**1.8324**	**2.9700e-003**		**0.0951**	**0.0951**		**0.0951**	**0.0951**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1833	0.1071	1.4001	4.5300e-003	0.4682	2.9500e-003	0.4712	0.1242	2.7100e-003	0.1269		451.4169	451.4169	0.0101		451.6692
Total	**0.1833**	**0.1071**	**1.4001**	**4.5300e-003**	**0.4682**	**2.9500e-003**	**0.4712**	**0.1242**	**2.7100e-003**	**0.1269**		**451.4169**	**451.4169**	**0.0101**		**451.6692**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.8658	11.8217	28.4596	0.1028	8.6872	0.0881	8.7753	2.3242	0.0825	2.4067		10,397.4260	10,397.4260	0.3684		10,406.6361
Unmitigated	2.9122	12.1326	29.6293	0.1078	9.1444	0.0921	9.2366	2.4466	0.0863	2.5328		10,902.6173	10,902.6173	0.3823		10,912.1752

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,021.68	1,021.68	1021.68	2,359,680	2,241,696
Apartments Mid Rise	841.94	841.94	841.94	1,944,551	1,847,323
Total	1,863.62	1,863.62	1,863.62	4,304,230	4,089,019

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
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	0.576985	0.039376	0.193723	0.112069	0.016317	0.005358	0.017943	0.025814	0.002614	0.002274	0.005874	0.000887	0.000768

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0910	0.7776	0.3309	4.9600e-003		0.0629	0.0629		0.0629	0.0629		992.6873	992.6873	0.0190	0.0182	998.5863
NaturalGas Unmitigated	0.1006	0.8594	0.3657	5.4900e-003		0.0695	0.0695		0.0695	0.0695		1,097.1614	1,097.1614	0.0210	0.0201	1,103.6813

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	4213.21	0.0454	0.3883	0.1652	2.4800e-003		0.0314	0.0314		0.0314	0.0314		495.6719	495.6719	9.5000e-003	9.0900e-003	498.6174
Apartments Mid Rise	5112.66	0.0551	0.4712	0.2005	3.0100e-003		0.0381	0.0381		0.0381	0.0381		601.4895	601.4895	0.0115	0.0110	605.0639
Total		**0.1006**	**0.8595**	**0.3657**	**5.4900e-003**		**0.0695**	**0.0695**		**0.0695**	**0.0695**		**1,097.1614**	**1,097.1614**	**0.0210**	**0.0201**	**1,103.6813**

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	3.81202	0.0411	0.3513	0.1495	2.2400e-003		0.0284	0.0284		0.0284	0.0284		448.4729	448.4729	8.6000e-003	8.2200e-003	451.1380
Apartments Mid Rise	4.62582	0.0499	0.4263	0.1814	2.7200e-003		0.0345	0.0345		0.0345	0.0345		544.2144	544.2144	0.0104	9.9800e-003	547.4483
Total		**0.0910**	**0.7776**	**0.3309**	**4.9600e-003**		**0.0629**	**0.0629**		**0.0629**	**0.0629**		**992.6873**	**992.6873**	**0.0190**	**0.0182**	**998.5863**

6.0 Area Detail

6.1 Mitigation Measures Area

Mitigated

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	11.5053	5.2553	34.6171	0.0329		0.5744	0.5744		0.5744	0.5744	0.0000	6,288.3649	6,288.3649	0.1759	0.1142	6,326.7974
Unmitigated	335.0072	7.5397	460.7049	0.8266		60.9640	60.9640		60.9640	60.9640	6,596.2268	2,978.7649	9,574.9918	9.0831	0.4662	9,941.0076

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	1.5197					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.4316					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	324.0730	7.1644	428.1644	0.8249		60.7842	60.7842		60.7842	60.7842	6,596.2268	2,920.2353	9,516.4621	9.0266	0.4662	9,881.0663
Landscaping	0.9829	0.3753	32.5405	1.7200e-003		0.1798	0.1798		0.1798	0.1798		58.5296	58.5296	0.0565		59.9413
Total	**335.0072**	**7.5397**	**460.7049**	**0.8266**		**60.9640**	**60.9640**		**60.9640**	**60.9640**	**6,596.2268**	**2,978.7649**	**9,574.9918**	**9.0831**	**0.4662**	**9,941.0076**

Mitigated

6.2 Area by SubCategory

Mitigated

SubCategory	ROG	NOx	CO	SO2	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					
Architectural Coating	1.5197					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.4316					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.5711	4.8800	2.0766	0.0312		0.3946	0.3946		0.3946	0.3946	0.0000	6,229.8353	6,229.8353	0.1194	0.1142	6,266.8561
Landscaping	0.9829	0.3753	32.5405	1.7200e-003		0.1798	0.1798		0.1798	0.1798		58.5296	58.5296	0.0565		59.9413
Total	**11.5053**	**5.2553**	**34.6171**	**0.0329**		**0.5744**	**0.5744**		**0.5744**	**0.5744**	**0.0000**	**6,288.3649**	**6,288.3649**	**0.1759**	**0.1142**	**6,326.7974**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

East 18th Street Project

Bay Area AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	216.00	Dwelling Unit	9.53	216,000.00	618
Apartments Mid Rise	178.00	Dwelling Unit	5.33	178,000.00	509

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	64
Climate Zone	4			**Operational Year**	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	290	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

East 18th Street Project - Bay Area AQMD Air District, Winter

Project Characteristics - Intensity factor for CO2 adjusted based on PG&E's RPS reductions

Land Use - Applicant provided

Construction Phase - Applicant provided

Grading - Export/import not required

Vehicle Trips - Per Hexagon Transportation Consultants, Inc.

Area Mitigation - Per BAAQMD regulations

Energy Mitigation - Applicant provided

Water Mitigation - Applicant provided

Mobile Land Use Mitigation - Applicant provided

Construction Off-road Equipment Mitigation - Applicant provided

Table Name	Column Name	Default Value	New Value
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstructionPhase	NumDays	20.00	434.00
tblConstructionPhase	PhaseEndDate	6/14/2019	7/2/2019
tblConstructionPhase	PhaseEndDate	7/26/2019	8/2/2019
tblConstructionPhase	PhaseEndDate	10/16/2020	9/4/2019
tblConstructionPhase	PhaseEndDate	9/18/2020	5/4/2021
tblConstructionPhase	PhaseEndDate	11/13/2020	5/18/2021
tblConstructionPhase	PhaseStartDate	6/15/2019	7/3/2019
tblConstructionPhase	PhaseStartDate	9/19/2020	8/5/2019
tblConstructionPhase	PhaseStartDate	7/27/2019	9/5/2019
tblConstructionPhase	PhaseStartDate	10/17/2020	9/19/2019
tblGrading	AcresOfGrading	57.50	14.85
tblLandUse	LotAcreage	5.68	9.53

tblLandUse	LotAcreage	4.68	5.33
tblProjectCharacteristics	CO2IntensityFactor	641.35	290
tblVehicleTrips	ST_TR	6.39	4.73
tblVehicleTrips	SU_TR	5.86	4.73
tblVehicleTrips	WD_TR	6.65	4.73

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	16.9839	54.5791	33.9399	0.0680	18.2141	2.3913	20.6055	9.9699	2.2000	12.1699	0.0000	6,737.2416	6,737.2416	1.9469	0.0000	6,757.1918
2020	16.5645	26.5964	28.5789	0.0670	3.0855	1.2700	4.3555	0.8249	1.2008	2.0257	0.0000	6,606.8686	6,606.8686	0.7730	0.0000	6,626.1927
2021	16.2006	24.1281	27.4057	0.0660	3.0855	1.0801	4.1656	0.8249	1.0209	1.8458	0.0000	6,505.3659	6,505.3659	0.7532	0.0000	6,524.1970
Maximum	**16.9839**	**54.5791**	**33.9399**	**0.0680**	**18.2141**	**2.3913**	**20.6055**	**9.9699**	**2.2000**	**12.1699**	**0.0000**	**6,737.2416**	**6,737.2416**	**1.9469**	**0.0000**	**6,757.1918**

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	15.5511	51.2975	37.2857	0.0680	18.2141	1.3344	19.1613	9.9699	1.3343	10.9170	0.0000	6,737.2416	6,737.2416	1.9469	0.0000	6,757.1918
2020	15.3972	31.6334	29.6051	0.0670	3.0855	1.0406	4.1262	0.8249	1.0382	1.8630	0.0000	6,606.8686	6,606.8686	0.7730	0.0000	6,626.1927
2021	15.2755	31.0760	28.7192	0.0660	3.0855	1.0260	4.1115	0.8249	1.0242	1.8490	0.0000	6,505.3659	6,505.3659	0.7532	0.0000	6,524.1970
Maximum	**15.5511**	**51.2975**	**37.2857**	**0.0680**	**18.2141**	**1.3344**	**19.1613**	**9.9699**	**1.3343**	**10.9170**	**0.0000**	**6,737.2416**	**6,737.2416**	**1.9469**	**0.0000**	**6,757.1918**

East 18th Street Project - Bay Area AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	7.09	-8.26	-6.32	0.00	0.00	28.27	5.93	0.00	23.18	8.80	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	335.0072	7.5397	460.7049	0.8266		60.9640	60.9640		60.9640	60.9640	6,596.2268	2,978.7649	9,574.9918	9.0831	0.4662	9,941.0076
Energy	0.1006	0.8594	0.3657	5.4900e-003		0.0695	0.0695		0.0695	0.0695		1,097.1614	1,097.1614	0.0210	0.0201	1,103.6813
Mobile	2.5211	12.7227	29.8860	0.1009	9.1444	0.0928	9.2373	2.4466	0.0869	2.5335		10,207.3129	10,207.3129	0.3906		10,217.0779
Total	**337.6289**	**21.1218**	**490.9566**	**0.9330**	**9.1444**	**61.1263**	**70.2708**	**2.4466**	**61.1204**	**63.5670**	**6,596.2268**	**14,283.2392**	**20,879.4661**	**9.4947**	**0.4864**	**21,261.7668**

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	11.5053	5.2553	34.6171	0.0329		0.5744	0.5744		0.5744	0.5744	0.0000	6,288.3649	6,288.3649	0.1759	0.1142	6,326.7974
Energy	0.0910	0.7776	0.3309	4.9600e-003		0.0629	0.0629		0.0629	0.0629		992.6873	992.6873	0.0190	0.0182	998.5863
Mobile	2.4755	12.3795	28.8454	0.0962	8.6872	0.0888	8.7760	2.3242	0.0831	2.4074		9,733.3703	9,733.3703	0.3773		9,742.8034
Total	**14.0718**	**18.4124**	**63.7934**	**0.1340**	**8.6872**	**0.7260**	**9.4132**	**2.3242**	**0.7203**	**3.0446**	**0.0000**	**17,014.4225**	**17,014.4225**	**0.5722**	**0.1324**	**17,068.1871**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**95.83**	**12.83**	**87.01**	**85.64**	**5.00**	**98.81**	**86.60**	**5.00**	**98.82**	**95.21**	**100.00**	**-19.12**	**18.51**	**93.97**	**72.77**	**19.72**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/3/2019	7/2/2019	5	22	
2	Grading	Grading	7/3/2019	8/2/2019	5	23	
3	Building Construction	Building Construction	9/5/2019	5/4/2021	5	434	
4	Paving	Paving	8/5/2019	9/4/2019	5	23	
5	Architectural Coating	Architectural Coating	9/19/2019	5/18/2021	5	434	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 14.85

Acres of Paving: 0

Residential Indoor: 797,850; Residential Outdoor: 265,950; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	284.00	42.00	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	57.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

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

3.2 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0724	0.0530	0.5068	1.4100e-003	0.1479	9.8000e-004	0.1488	0.0392	9.0000e-004	0.0401		140.5138	140.5138	3.8200e-003		140.6092
Total	**0.0724**	**0.0530**	**0.5068**	**1.4100e-003**	**0.1479**	**9.8000e-004**	**0.1488**	**0.0392**	**9.0000e-004**	**0.0401**		**140.5138**	**140.5138**	**3.8200e-003**		**140.6092**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	1.2097	33.7214	22.9600	0.0380		0.9462	0.9462		0.9462	0.9462	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
Total	**1.2097**	**33.7214**	**22.9600**	**0.0380**	**18.0663**	**0.9462**	**19.0124**	**9.9307**	**0.9462**	**10.8769**	**0.0000**	**3,766.4529**	**3,766.4529**	**1.1917**		**3,796.2445**

3.2 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0724	0.0530	0.5068	1.4100e-003	0.1479	9.8000e-004	0.1488	0.0392	9.0000e-004	0.0401		140.5138	140.5138	3.8200e-003		140.6092
Total	**0.0724**	**0.0530**	**0.5068**	**1.4100e-003**	**0.1479**	**9.8000e-004**	**0.1488**	**0.0392**	**9.0000e-004**	**0.0401**		**140.5138**	**140.5138**	**3.8200e-003**		**140.6092**

3.3 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					6.7068	0.0000	6.7068	3.3842	0.0000	3.3842			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.0195	6,140.0195	1.9426		6,188.5854
Total	**4.7389**	**54.5202**	**33.3768**	**0.0620**	**6.7068**	**2.3827**	**9.0895**	**3.3842**	**2.1920**	**5.5762**		**6,140.0195**	**6,140.0195**	**1.9426**		**6,188.5854**

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	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	0.0804	0.0589	0.5631	1.5700e-003	0.1643	1.0900e-003	0.1654	0.0436	1.0000e-003	0.0446		156.1264	156.1264	4.2400e-003		156.2324
Total	**0.0804**	**0.0589**	**0.5631**	**1.5700e-003**	**0.1643**	**1.0900e-003**	**0.1654**	**0.0436**	**1.0000e-003**	**0.0446**		**156.1264**	**156.1264**	**4.2400e-003**		**156.2324**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.7068	0.0000	6.7068	3.3842	0.0000	3.3842			0.0000			0.0000
Off-Road	1.8106	51.2386	36.7226	0.0620		1.3333	1.3333		1.3333	1.3333	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854
Total	**1.8106**	**51.2386**	**36.7226**	**0.0620**	**6.7068**	**1.3333**	**8.0401**	**3.3842**	**1.3333**	**4.7175**	**0.0000**	**6,140.0195**	**6,140.0195**	**1.9426**		**6,188.5854**

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	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	0.0804	0.0589	0.5631	1.5700e-003	0.1643	1.0900e-003	0.1654	0.0436	1.0000e-003	0.0446		156.1264	156.1264	4.2400e-003		156.2324
Total	**0.0804**	**0.0589**	**0.5631**	**1.5700e-003**	**0.1643**	**1.0900e-003**	**0.1654**	**0.0436**	**1.0000e-003**	**0.0446**		**156.1264**	**156.1264**	**4.2400e-003**		**156.2324**

3.4 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	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**2.3612**	**21.0788**	**17.1638**	**0.0269**		**1.2899**	**1.2899**		**1.2127**	**1.2127**		**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2041	5.3165	1.4622	0.0114	0.2843	0.0369	0.3212	0.0818	0.0353	0.1171		1,202.2585	1,202.2585	0.0706		1,204.0238
Worker	1.1418	0.8362	7.9958	0.0223	2.3330	0.0155	2.3484	0.6188	0.0142	0.6331		2,216.9947	2,216.9947	0.0602		2,218.4999
Total	**1.3459**	**6.1527**	**9.4580**	**0.0336**	**2.6173**	**0.0523**	**2.6696**	**0.7007**	**0.0495**	**0.7502**		**3,419.2532**	**3,419.2532**	**0.1308**		**3,422.5237**

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	1.0809	23.5544	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	**1.0809**	**23.5544**	**17.8738**	**0.0269**		**0.9036**	**0.9036**		**0.9036**	**0.9036**	**0.0000**	**2,591.5802**	**2,591.5802**	**0.6313**		**2,607.3635**

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.2041	5.3165	1.4622	0.0114	0.2843	0.0369	0.3212	0.0818	0.0353	0.1171		1,202.2585	1,202.2585	0.0706		1,204.0238
Worker	1.1418	0.8362	7.9958	0.0223	2.3330	0.0155	2.3484	0.6188	0.0142	0.6331		2,216.9947	2,216.9947	0.0602		2,218.4999
Total	**1.3459**	**6.1527**	**9.4580**	**0.0336**	**2.6173**	**0.0523**	**2.6696**	**0.7007**	**0.0495**	**0.7502**		**3,419.2532**	**3,419.2532**	**0.1308**		**3,422.5237**

3.4 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.1198	19.1860	16.8485	0.0269		1.1171	1.1171		1.0503	1.0503		2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**2.1198**	**19.1860**	**16.8485**	**0.0269**		**1.1171**	**1.1171**		**1.0503**	**1.0503**		**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

3.4 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1676	4.8400	1.3062	0.0113	0.2843	0.0239	0.3082	0.0818	0.0228	0.1047		1,194.1744	1,194.1744	0.0653		1,195.8059
Worker	1.0441	0.7384	7.1565	0.0216	2.3330	0.0151	2.3481	0.6188	0.0139	0.6327		2,147.2258	2,147.2258	0.0525		2,148.5387
Total	**1.2117**	**5.5784**	**8.4626**	**0.0328**	**2.6173**	**0.0390**	**2.6563**	**0.7007**	**0.0367**	**0.7374**		**3,341.4002**	**3,341.4002**	**0.1178**		**3,344.3446**

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	1.0809	23.5544	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	**1.0809**	**23.5544**	**17.8738**	**0.0269**		**0.9036**	**0.9036**		**0.9036**	**0.9036**	**0.0000**	**2,553.0631**	**2,553.0631**	**0.6229**		**2,568.6345**

3.4 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1676	4.8400	1.3062	0.0113	0.2843	0.0239	0.3082	0.0818	0.0228	0.1047		1,194.1744	1,194.1744	0.0653		1,195.8059
Worker	1.0441	0.7384	7.1565	0.0216	2.3330	0.0151	2.3481	0.6188	0.0139	0.6327		2,147.2258	2,147.2258	0.0525		2,148.5387
Total	**1.2117**	**5.5784**	**8.4626**	**0.0328**	**2.6173**	**0.0390**	**2.6563**	**0.7007**	**0.0367**	**0.7374**		**3,341.4002**	**3,341.4002**	**0.1178**		**3,344.3446**

3.4 Building Construction - 2021

Unmitigated Construction On-Site

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

3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1380	4.3777	1.1764	0.0112	0.2843	9.7300e-003	0.2940	0.0818	9.3100e-003	0.0912		1,182.8340	1,182.8340	0.0616		1,184.3746
Worker	0.9674	0.6592	6.5267	0.0208	2.3330	0.0147	2.3477	0.6188	0.0135	0.6323		2,071.8841	2,071.8841	0.0469		2,073.0561
Total	**1.1054**	**5.0368**	**7.7030**	**0.0320**	**2.6173**	**0.0244**	**2.6417**	**0.7007**	**0.0228**	**0.7235**		**3,254.7181**	**3,254.7181**	**0.1085**		**3,257.4307**

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	1.0809	23.5544	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	**1.0809**	**23.5544**	**17.8738**	**0.0269**		**0.9036**	**0.9036**		**0.9036**	**0.9036**	**0.0000**	**2,553.3639**	**2,553.3639**	**0.6160**		**2,568.7643**

3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1380	4.3777	1.1764	0.0112	0.2843	9.7300e-003	0.2940	0.0818	9.3100e-003	0.0912		1,182.8340	1,182.8340	0.0616		1,184.3746
Worker	0.9674	0.6592	6.5267	0.0208	2.3330	0.0147	2.3477	0.6188	0.0135	0.6323		2,071.8841	2,071.8841	0.0469		2,073.0561
Total	**1.1054**	**5.0368**	**7.7030**	**0.0320**	**2.6173**	**0.0244**	**2.6417**	**0.7007**	**0.0228**	**0.7235**		**3,254.7181**	**3,254.7181**	**0.1085**		**3,257.4307**

3.5 Paving - 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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.4544**	**15.2441**	**14.6648**	**0.0228**		**0.8246**	**0.8246**		**0.7586**	**0.7586**		**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

3.5 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0603	0.0442	0.4223	1.1800e-003	0.1232	8.2000e-004	0.1240	0.0327	7.5000e-004	0.0334		117.0948	117.0948	3.1800e-003		117.1743
Total	**0.0603**	**0.0442**	**0.4223**	**1.1800e-003**	**0.1232**	**8.2000e-004**	**0.1240**	**0.0327**	**7.5000e-004**	**0.0334**		**117.0948**	**117.0948**	**3.1800e-003**		**117.1743**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9311	20.1146	17.2957	0.0228		0.6670	0.6670		0.6670	0.6670	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9311**	**20.1146**	**17.2957**	**0.0228**		**0.6670**	**0.6670**		**0.6670**	**0.6670**	**0.0000**	**2,257.0025**	**2,257.0025**	**0.7141**		**2,274.8548**

3.5 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0603	0.0442	0.4223	1.1800e-003	0.1232	8.2000e-004	0.1240	0.0327	7.5000e-004	0.0334		117.0948	117.0948	3.1800e-003		117.1743
Total	**0.0603**	**0.0442**	**0.4223**	**1.1800e-003**	**0.1232**	**8.2000e-004**	**0.1240**	**0.0327**	**7.5000e-004**	**0.0334**		**117.0948**	**117.0948**	**3.1800e-003**		**117.1743**

3.6 Architectural Coating - 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					
Archit. Coating	12.7812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	**13.0477**	**1.8354**	**1.8413**	**2.9700e-003**		**0.1288**	**0.1288**		**0.1288**	**0.1288**		**281.4481**	**281.4481**	**0.0238**		**282.0423**

3.6 Architectural Coating - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2292	0.1678	1.6048	4.4700e-003	0.4682	3.1000e-003	0.4713	0.1242	2.8600e-003	0.1271		444.9602	444.9602	0.0121		445.2623
Total	**0.2292**	**0.1678**	**1.6048**	**4.4700e-003**	**0.4682**	**3.1000e-003**	**0.4713**	**0.1242**	**2.8600e-003**	**0.1271**		**444.9602**	**444.9602**	**0.0121**		**445.2623**

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	12.7812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1139	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0238		282.0423
Total	**12.8951**	**2.3524**	**1.8324**	**2.9700e-003**		**0.0951**	**0.0951**		**0.0951**	**0.0951**	**0.0000**	**281.4481**	**281.4481**	**0.0238**		**282.0423**

3.6 Architectural Coating - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2292	0.1678	1.6048	4.4700e-003	0.4682	3.1000e-003	0.4713	0.1242	2.8600e-003	0.1271		444.9602	444.9602	0.0121		445.2623
Total	**0.2292**	**0.1678**	**1.6048**	**4.4700e-003**	**0.4682**	**3.1000e-003**	**0.4713**	**0.1242**	**2.8600e-003**	**0.1271**		**444.9602**	**444.9602**	**0.0121**		**445.2623**

3.6 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	12.7812					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	**13.0234**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**		**281.4481**	**281.4481**	**0.0218**		**281.9928**

3.6 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2096	0.1482	1.4363	4.3200e-003	0.4682	3.0300e-003	0.4713	0.1242	2.7900e-003	0.1270		430.9573	430.9573	0.0105		431.2208
Total	**0.2096**	**0.1482**	**1.4363**	**4.3200e-003**	**0.4682**	**3.0300e-003**	**0.4713**	**0.1242**	**2.7900e-003**	**0.1270**		**430.9573**	**430.9573**	**0.0105**		**431.2208**

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	12.7812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1139	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0218		281.9928
Total	**12.8951**	**2.3524**	**1.8324**	**2.9700e-003**		**0.0951**	**0.0951**		**0.0951**	**0.0951**	**0.0000**	**281.4481**	**281.4481**	**0.0218**		**281.9928**

3.6 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2096	0.1482	1.4363	4.3200e-003	0.4682	3.0300e-003	0.4713	0.1242	2.7900e-003	0.1270		430.9573	430.9573	0.0105		431.2208
Total	**0.2096**	**0.1482**	**1.4363**	**4.3200e-003**	**0.4682**	**3.0300e-003**	**0.4713**	**0.1242**	**2.7900e-003**	**0.1270**		**430.9573**	**430.9573**	**0.0105**		**431.2208**

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	12.7812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**13.0001**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1942	0.1323	1.3099	4.1700e-003	0.4682	2.9500e-003	0.4712	0.1242	2.7100e-003	0.1269		415.8359	415.8359	9.4100e-003		416.0711
Total	**0.1942**	**0.1323**	**1.3099**	**4.1700e-003**	**0.4682**	**2.9500e-003**	**0.4712**	**0.1242**	**2.7100e-003**	**0.1269**		**415.8359**	**415.8359**	**9.4100e-003**		**416.0711**

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	12.7812					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1139	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**12.8951**	**2.3524**	**1.8324**	**2.9700e-003**		**0.0951**	**0.0951**		**0.0951**	**0.0951**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.6 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1942	0.1323	1.3099	4.1700e-003	0.4682	2.9500e-003	0.4712	0.1242	2.7100e-003	0.1269		415.8359	415.8359	9.4100e-003		416.0711
Total	**0.1942**	**0.1323**	**1.3099**	**4.1700e-003**	**0.4682**	**2.9500e-003**	**0.4712**	**0.1242**	**2.7100e-003**	**0.1269**		**415.8359**	**415.8359**	**9.4100e-003**		**416.0711**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	2.4755	12.3795	28.8454	0.0962	8.6872	0.0888	8.7760	2.3242	0.0831	2.4074		9,733.3703	9,733.3703	0.3773		9,742.8034
Unmitigated	2.5211	12.7227	29.8860	0.1009	9.1444	0.0928	9.2373	2.4466	0.0869	2.5335		10,207.3129	10,207.3129	0.3906		10,217.0779

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,021.68	1,021.68	1021.68	2,359,680	2,241,696
Apartments Mid Rise	841.94	841.94	841.94	1,944,551	1,847,323
Total	1,863.62	1,863.62	1,863.62	4,304,230	4,089,019

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
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	0.576985	0.039376	0.193723	0.112069	0.016317	0.005358	0.017943	0.025814	0.002614	0.002274	0.005874	0.000887	0.000768

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0910	0.7776	0.3309	4.9600e-003		0.0629	0.0629		0.0629	0.0629		992.6873	992.6873	0.0190	0.0182	998.5863
NaturalGas Unmitigated	0.1006	0.8594	0.3657	5.4900e-003		0.0695	0.0695		0.0695	0.0695		1,097.1614	1,097.1614	0.0210	0.0201	1,103.6813

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	5112.66	0.0551	0.4712	0.2005	3.0100e-003		0.0381	0.0381		0.0381	0.0381		601.4895	601.4895	0.0115	0.0110	605.0639
Apartments Mid Rise	4213.21	0.0454	0.3883	0.1652	2.4800e-003		0.0314	0.0314		0.0314	0.0314		495.6719	495.6719	9.5000e-003	9.0900e-003	498.6174
Total		**0.1006**	**0.8595**	**0.3657**	**5.4900e-003**		**0.0695**	**0.0695**		**0.0695**	**0.0695**		**1,097.1614**	**1,097.1614**	**0.0210**	**0.0201**	**1,103.6813**

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	3.81202	0.0411	0.3513	0.1495	2.2400e-003		0.0284	0.0284		0.0284	0.0284		448.4729	448.4729	8.6000e-003	8.2200e-003	451.1380
Apartments Mid Rise	4.62582	0.0499	0.4263	0.1814	2.7200e-003		0.0345	0.0345		0.0345	0.0345		544.2144	544.2144	0.0104	9.9800e-003	547.4483
Total		**0.0910**	**0.7776**	**0.3309**	**4.9600e-003**		**0.0629**	**0.0629**		**0.0629**	**0.0629**		**992.6873**	**992.6873**	**0.0190**	**0.0182**	**998.5863**

6.0 Area Detail

6.1 Mitigation Measures Area

Mitigated

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	11.5053	5.2553	34.6171	0.0329		0.5744	0.5744		0.5744	0.5744	0.0000	6,288.3649	6,288.3649	0.1759	0.1142	6,326.7974
Unmitigated	335.0072	7.5397	460.7049	0.8266		60.9640	60.9640		60.9640	60.9640	6,596.2268	2,978.7649	9,574.9918	9.0831	0.4662	9,941.0076

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	1.5197					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.4316					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	324.0730	7.1644	428.1644	0.8249		60.7842	60.7842		60.7842	60.7842	6,596.2268	2,920.2353	9,516.4621	9.0266	0.4662	9,881.0663
Landscaping	0.9829	0.3753	32.5405	1.7200e-003		0.1798	0.1798		0.1798	0.1798		58.5296	58.5296	0.0565		59.9413
Total	**335.0072**	**7.5397**	**460.7049**	**0.8266**		**60.9640**	**60.9640**		**60.9640**	**60.9640**	**6,596.2268**	**2,978.7649**	**9,574.9918**	**9.0831**	**0.4662**	**9,941.0076**

Mitigated

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.5197					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.4316					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.5711	4.8800	2.0766	0.0312		0.3946	0.3946		0.3946	0.3946	0.0000	6,229.8353	6,229.8353	0.1194	0.1142	6,266.8561
Landscaping	0.9829	0.3753	32.5405	1.7200e-003		0.1798	0.1798		0.1798	0.1798		58.5296	58.5296	0.0565		59.9413
Total	**11.5053**	**5.2553**	**34.6171**	**0.0329**		**0.5744**	**0.5744**		**0.5744**	**0.5744**	**0.0000**	**6,288.3649**	**6,288.3649**	**0.1759**	**0.1142**	**6,326.7974**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

East 18th Street Project

Bay Area AQMD Air District, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.01	-0.37	0.00	0.00	0.13	0.13	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.32	-0.18	-0.04	0.00	0.19	0.14	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.61	0.06	-0.10	0.00	0.44	0.39	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.35	-0.32	-0.17	0.00	0.19	0.12	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.71	0.26	-0.04	0.00	0.60	0.57	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	Tier 2	1	1	No Change	0.00
Scrapers	Diesel	Tier 2	2	2	No Change	0.00
Cranes	Diesel	Tier 2	1	1	No Change	0.00
Excavators	Diesel	Tier 2	2	2	No Change	0.00
Forklifts	Diesel	Tier 2	3	3	No Change	0.00
Generator Sets	Diesel	Tier 2	1	1	No Change	0.00
Graders	Diesel	Tier 2	1	1	No Change	0.00
Pavers	Diesel	Tier 2	2	2	No Change	0.00
Paving Equipment	Diesel	Tier 2	2	2	No Change	0.00
Rollers	Diesel	Tier 2	2	2	No Change	0.00
Rubber Tired Dozers	Diesel	Tier 2	4	4	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	Tier 2	9	9	No Change	0.00
Welders	Diesel	Tier 2	1	1	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Air Compressors	5.23100E-002	3.63310E-001	3.97110E-001	6.40000E-004	2.39100E-002	2.39100E-002	0.00000E+000	5.54056E+001	5.54056E+001	4.25000E-003	0.00000E+000	5.55118E+001
Cranes	8.63900E-002	1.02546E+000	4.03080E-001	1.10000E-003	4.24200E-002	3.90200E-002	0.00000E+000	9.66648E+001	9.66648E+001	3.11300E-002	0.00000E+000	9.74430E+001
Excavators	6.00000E-003	6.16800E-002	7.50500E-002	1.20000E-004	2.97000E-003	2.74000E-003	0.00000E+000	1.06648E+001	1.06648E+001	3.37000E-003	0.00000E+000	1.07491E+001
Forklifts	9.38200E-002	8.45530E-001	7.68470E-001	9.90000E-004	6.29800E-002	5.79400E-002	0.00000E+000	8.77997E+001	8.77997E+001	2.82700E-002	0.00000E+000	8.85065E+001
Generator Sets	8.66500E-002	7.53680E-001	8.03920E-001	1.43000E-003	4.25700E-002	4.25700E-002	0.00000E+000	1.22650E+002	1.22650E+002	6.94000E-003	0.00000E+000	1.22824E+002
Graders	5.60000E-003	7.56700E-002	2.11400E-002	8.00000E-005	2.43000E-003	2.23000E-003	0.00000E+000	6.86078E+000	6.86078E+000	2.17000E-003	0.00000E+000	6.91504E+000
Pavers	6.62000E-003	7.18700E-002	6.67400E-002	1.10000E-004	3.52000E-003	3.24000E-003	0.00000E+000	9.71274E+000	9.71274E+000	3.07000E-003	0.00000E+000	9.78956E+000
Paving Equipment	4.90000E-003	5.19000E-002	5.80400E-002	9.00000E-005	2.57000E-003	2.37000E-003	0.00000E+000	8.41536E+000	8.41536E+000	2.66000E-003	0.00000E+000	8.48192E+000
Rollers	5.21000E-003	5.15400E-002	4.38700E-002	6.00000E-005	3.39000E-003	3.12000E-003	0.00000E+000	5.41837E+000	5.41837E+000	1.71000E-003	0.00000E+000	5.46122E+000
Rubber Tired Dozers	5.04900E-002	5.37310E-001	1.90640E-001	3.80000E-004	2.62000E-002	2.41000E-002	0.00000E+000	3.41297E+001	3.41297E+001	1.08000E-002	0.00000E+000	3.43997E+001
Scrapers	2.45000E-002	2.97020E-001	1.85410E-001	3.50000E-004	1.16400E-002	1.07100E-002	0.00000E+000	3.12940E+001	3.12940E+001	9.90000E-003	0.00000E+000	3.15415E+001
Tractors/Loaders/ Backhoes	1.34940E-001	1.35717E+000	1.45314E+000	1.98000E-003	8.63400E-002	7.94400E-002	0.00000E+000	1.74808E+002	1.74808E+002	5.61900E-002	0.00000E+000	1.76212E+002
Welders	7.43100E-002	3.40450E-001	3.83010E-001	5.50000E-004	1.88300E-002	1.88300E-002	0.00000E+000	4.08439E+001	4.08439E+001	6.04000E-003	0.00000E+000	4.09950E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Mitigated tons/yr						Mitigated mt/yr					
Air Compressors	2.47200E-002	5.10470E-001	3.97630E-001	6.40000E-004	2.06300E-002	2.06300E-002	0.00000E+000	5.54055E+001	5.54055E+001	4.25000E-003	0.00000E+000	5.55117E+001
Cranes	2.69200E-002	9.31000E-001	5.83280E-001	1.10000E-003	1.97400E-002	1.97400E-002	0.00000E+000	9.66647E+001	9.66647E+001	3.11300E-002	0.00000E+000	9.74429E+001
Excavators	4.63000E-003	1.01560E-001	9.01100E-002	1.20000E-004	3.12000E-003	3.12000E-003	0.00000E+000	1.06648E+001	1.06648E+001	3.37000E-003	0.00000E+000	1.07491E+001
Forklifts	4.70100E-002	9.70770E-001	7.56180E-001	9.90000E-004	3.92400E-002	3.92400E-002	0.00000E+000	8.77996E+001	8.77996E+001	2.82700E-002	0.00000E+000	8.85064E+001
Generator Sets	5.47200E-002	1.13003E+000	8.80230E-001	1.43000E-003	4.56800E-002	4.56800E-002	0.00000E+000	1.22650E+002	1.22650E+002	6.94000E-003	0.00000E+000	1.22823E+002
Graders	1.87000E-003	6.45300E-002	4.04300E-002	8.00000E-005	1.37000E-003	1.37000E-003	0.00000E+000	6.86077E+000	6.86077E+000	2.17000E-003	0.00000E+000	6.91504E+000
Pavers	4.21000E-003	9.23600E-002	8.19500E-002	1.10000E-004	2.84000E-003	2.84000E-003	0.00000E+000	9.71272E+000	9.71272E+000	3.07000E-003	0.00000E+000	9.78955E+000
Paving Equipment	3.66000E-003	8.03800E-002	7.13200E-002	9.00000E-005	2.47000E-003	2.47000E-003	0.00000E+000	8.41535E+000	8.41535E+000	2.66000E-003	0.00000E+000	8.48191E+000
Rollers	2.84000E-003	5.85800E-002	4.56300E-002	6.00000E-005	2.37000E-003	2.37000E-003	0.00000E+000	5.41836E+000	5.41836E+000	1.71000E-003	0.00000E+000	5.46122E+000
Rubber Tired Dozers	9.31000E-003	3.21800E-001	2.01610E-001	3.80000E-004	6.82000E-003	6.82000E-003	0.00000E+000	3.41297E+001	3.41297E+001	1.08000E-002	0.00000E+000	3.43996E+001
Scrapers	8.58000E-003	2.70830E-001	1.85790E-001	3.50000E-004	6.29000E-003	6.29000E-003	0.00000E+000	3.12940E+001	3.12940E+001	9.90000E-003	0.00000E+000	3.15415E+001
Tractors/Loaders/Backhoes	9.26800E-002	1.91414E+000	1.49102E+000	1.98000E-003	7.73700E-002	7.73700E-002	0.00000E+000	1.74808E+002	1.74808E+002	5.61900E-002	0.00000E+000	1.76212E+002
Welders	2.29700E-002	3.66800E-001	3.24820E-001	5.50000E-004	2.21800E-002	2.21800E-002	0.00000E+000	4.08438E+001	4.08438E+001	6.04000E-003	0.00000E+000	4.09949E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	5.27433E-001	-4.05054E-001	-1.30946E-003	0.00000E+000	1.37181E-001	1.37181E-001	0.00000E+000	1.26341E-006	1.26341E-006	0.00000E+000	0.00000E+000	1.26099E-006
Cranes	6.88390E-001	9.21148E-002	-4.47058E-001	0.00000E+000	5.34653E-001	4.94106E-001	0.00000E+000	1.13795E-006	1.13795E-006	0.00000E+000	0.00000E+000	1.23149E-006
Excavators	2.28333E-001	-6.46563E-001	-2.00666E-001	0.00000E+000	-5.05051E-002	-1.38686E-001	0.00000E+000	9.37668E-007	9.37668E-007	0.00000E+000	0.00000E+000	9.30309E-007
Forklifts	4.98934E-001	-1.48120E-001	1.59928E-002	0.00000E+000	3.76945E-001	3.22748E-001	0.00000E+000	1.25285E-006	1.25285E-006	0.00000E+000	0.00000E+000	1.12986E-006
Generator Sets	3.68494E-001	-4.99350E-001	-9.49224E-002	0.00000E+000	-7.30561E-002	-7.30561E-002	0.00000E+000	1.22299E-006	1.22299E-006	0.00000E+000	0.00000E+000	1.22126E-006
Graders	6.66071E-001	1.47218E-001	-9.12488E-001	0.00000E+000	4.36214E-001	3.85650E-001	0.00000E+000	1.45756E-006	1.45756E-006	0.00000E+000	0.00000E+000	0.00000E+000
Pavers	3.64048E-001	-2.85098E-001	-2.27899E-001	0.00000E+000	1.93182E-001	1.23457E-001	0.00000E+000	2.05915E-006	2.05915E-006	0.00000E+000	0.00000E+000	1.02150E-006
Paving Equipment	2.53061E-001	-5.48748E-001	-2.28808E-001	0.00000E+000	3.89105E-002	-4.21941E-002	0.00000E+000	1.18830E-006	1.18830E-006	0.00000E+000	0.00000E+000	1.17898E-006
Rollers	4.54894E-001	-1.36593E-001	-4.01185E-002	0.00000E+000	3.00885E-001	2.40385E-001	0.00000E+000	1.84557E-006	1.84557E-006	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	8.15607E-001	4.01091E-001	-5.75430E-002	0.00000E+000	7.39695E-001	7.17012E-001	0.00000E+000	1.17200E-006	1.17200E-006	0.00000E+000	0.00000E+000	1.16280E-006
Scrapers	6.49796E-001	8.81759E-002	-2.04951E-003	0.00000E+000	4.59622E-001	4.12698E-001	0.00000E+000	9.58650E-007	9.58650E-007	0.00000E+000	0.00000E+000	1.26817E-006
Tractors/Loaders/Backhoes	3.13176E-001	-4.10391E-001	-2.60677E-002	0.00000E+000	1.03892E-001	2.60574E-002	0.00000E+000	1.20132E-006	1.20132E-006	0.00000E+000	0.00000E+000	1.19174E-006
Welders	6.90890E-001	-7.73976E-002	1.51928E-001	0.00000E+000	-1.77908E-001	-1.77908E-001	0.00000E+000	1.22417E-006	1.22417E-006	0.00000E+000	0.00000E+000	1.21966E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input		Mitigation Input		Mitigation Input	
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
No	Water Exposed Area	PM10 Reduction	0.00	PM2.5 Reduction	0.00	Frequency (per day)	

No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	0.00		
No	Clean Paved Road	% PM Reduction	0.00				

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.10	0.03	0.10	0.03	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.55	0.15	0.55	0.15	0.00	0.00
Grading	Fugitive Dust	0.08	0.04	0.08	0.04	0.00	0.00
Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.20	0.11	0.20	0.11	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.03	16.03	16.03	16.03	16.03
Hearth	99.83	35.04	99.54	96.59	99.39	99.39	100.00	-113.33	37.89	98.96	75.42	40.06
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	1.78	2.64	3.64	4.64	4.40	4.39	0.00	4.63	4.63	3.49	0.00	4.63
Natural Gas	9.54	9.53	9.51	9.00	9.54	9.54	0.00	9.52	9.52	9.48	9.61	9.52
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	20.00	20.00	20.00	19.97	20.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting: Low Density Suburban

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	-0.01	0.13		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
Yes	Land Use	Increase Transit Accessibility	0.21	0.10		
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.05			

No	Neighborhood Enhancements	Improve Pedestrian Network				
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.05			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"	3.00			
No	Commute	Workplace Parking Charge				
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00		2.00	
No	Commute	Provide Ride Sharing Program	5.00			
	Commute	Commute Subtotal	0.00			

No	School Trip	Implement School Bus Program	0.00			
		Total VMT Reduction	0.05			

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
Yes	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
No	Use Low VOC Paint (Residential Exterior)	150.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	150.00
No	Use Low VOC Paint (Parking)	150.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Exceed Title 24	15.00	
No	Install High Efficiency Lighting	0.00	
Yes	On-site Renewable	0.00	15.00

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Apply Water Conservation on Strategy	20.00	20.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
Yes	Install low-flow bathroom faucet	32.00	
Yes	Install low-flow Kitchen faucet	18.00	
Yes	Install low-flow Toilet	20.00	
Yes	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

Solid Waste Mitigation

Mitigation Measures	Input Value

Institute Recycling and Composting Services Percent Reduction in Waste Disposed	