

APPENDIX 6.0

CalEEMod Air Quality and Greenhouse Gas Emissions Files

Kenwood Project South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	23.54	1000sqft	0.52	23,534.00	0
Apartments High Rise	44.00	Dwelling Unit	0.52	44,000.00	132

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	12			Operational Year	2018
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MWhr)	1115.33	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - The project would develop 44 multifamily residential units, or approximately .52 acre.

Construction Phase - Construction would take approximately 20 months and would involve demolition, site preparation/grading, and building construction.

Demolition -

Grading - .52-acre, would be disturbed

Woodstoves - No woodstoves

Construction Off-road Equipment Mitigation - Fugitive dust control measures pursuant with SCAQMD Rule 403

Mobile Land Use Mitigation -

Area Mitigation - VOC control measures pursuant to SCAQMD Rule 1113

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Vehicle Trips - 6.65 Apartment ITE 220

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	NumDays	200.00	285.00
tblConstructionPhase	NumDays	4.00	21.00
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	NumDays	2.00	22.00
tblConstructionPhase	PhaseEndDate	3/29/2017	3/27/2017
tblConstructionPhase	PhaseStartDate	3/1/2017	2/27/2017
tblConstructionPhase	PhaseStartDate	1/28/2017	1/30/2017
tblGrading	AcresOfGrading	7.88	0.52
tblGrading	AcresOfGrading	11.00	0.52
tblGrading	MaterialExported	0.00	13,000.00
tblLandUse	LandUseSquareFeet	23,540.00	23,534.00
tblLandUse	LotAcreage	0.54	0.52
tblLandUse	LotAcreage	0.71	0.52
tblLandUse	Population	126.00	132.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblVehicleTrips	WD_TR	6.59	6.65

2.0 Emissions Summary

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4468	8.9600e-003	0.7337	4.6000e-004		0.0445	0.0445		0.0445	0.0445	4.6736	9.7229	14.3966	0.0147	3.2000e-004	14.8030
Energy	1.7000e-003	0.0146	6.2000e-003	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	176.4175	176.4175	4.4700e-003	1.1700e-003	176.8733
Mobile	0.1711	0.5447	2.0389	5.5300e-003	0.3783	7.8000e-003	0.3861	0.1012	7.1800e-003	0.1084	0.0000	414.7829	414.7829	0.0156	0.0000	415.1108
Waste						0.0000	0.0000		0.0000	0.0000	4.1085	0.0000	4.1085	0.2428	0.0000	9.2075
Water						0.0000	0.0000		0.0000	0.0000	0.9095	29.0428	29.9523	0.0942	2.3600e-003	32.6621
Total	0.6195	0.5683	2.7788	6.0800e-003	0.3783	0.0535	0.4318	0.1012	0.0529	0.1541	9.6917	629.9660	639.6577	0.3717	3.8500e-003	648.6567

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3036	5.3100e-003	0.4573	2.0000e-005		3.1600e-003	3.1600e-003		3.1500e-003	3.1500e-003	0.0000	10.2512	10.2512	9.2000e-004	1.7000e-004	10.3246
Energy	1.7000e-003	0.0146	6.2000e-003	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	176.4175	176.4175	4.4700e-003	1.1700e-003	176.8733
Mobile	0.1711	0.5447	2.0389	5.5300e-003	0.3783	7.8000e-003	0.3861	0.1012	7.1800e-003	0.1084	0.0000	414.7829	414.7829	0.0156	0.0000	415.1108
Waste						0.0000	0.0000		0.0000	0.0000	2.0543	0.0000	2.0543	0.1214	0.0000	4.6038
Water						0.0000	0.0000		0.0000	0.0000	0.7276	24.6462	25.3738	0.0754	1.8900e-003	27.5436
Total	0.4764	0.5646	2.5024	5.6400e-003	0.3783	0.0121	0.3905	0.1012	0.0115	0.1128	2.7819	626.0978	628.8796	0.2178	3.2300e-003	634.4560

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	23.11	0.64	9.95	7.24	0.00	77.30	9.58	0.00	78.23	26.83	71.30	0.61	1.68	41.42	16.10	2.19

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	1/27/2017	5	20	
2	Site Preparation	Site Preparation	1/30/2017	2/28/2017	5	22	
3	Grading	Grading	2/27/2017	3/27/2017	5	21	
4	Building Construction	Building Construction	3/28/2017	4/30/2018	5	285	
5	Paving	Paving	5/1/2018	6/11/2018	5	30	
6	Architectural Coating	Architectural Coating	6/12/2018	7/23/2018	5	30	

Acres of Grading (Site Preparation Phase): 0.52

Acres of Grading (Grading Phase): 0.52

Acres of Paving: 0

Residential Indoor: 89,100; Residential Outdoor: 29,700; Non-Residential Indoor: 35,301; Non-Residential Outdoor: 11,767 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Site Preparation	Graders	1	8.00	174	0.41
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	1	7.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	174	0.41
Grading	Rubber Tired Dozers	1	6.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	49.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	1,625.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	42.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.2700e-003	0.0000	5.2700e-003	8.0000e-004	0.0000	8.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0272	0.2659	0.2087	2.4000e-004		0.0161	0.0161		0.0150	0.0150	0.0000	22.2938	22.2938	5.6600e-003	0.0000	22.4126
Total	0.0272	0.2659	0.2087	2.4000e-004	5.2700e-003	0.0161	0.0213	8.0000e-004	0.0150	0.0158	0.0000	22.2938	22.2938	5.6600e-003	0.0000	22.4126

3.2 Demolition - 2017

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	4.1000e-004	6.5600e-003	5.1700e-003	2.0000e-005	4.2000e-004	1.0000e-004	5.2000e-004	1.2000e-004	9.0000e-005	2.0000e-004	0.0000	1.6250	1.6250	1.0000e-005	0.0000	1.6253
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	6.9000e-004	7.1800e-003	2.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2850	1.2850	7.0000e-005	0.0000	1.2864
Total	8.8000e-004	7.2500e-003	0.0124	4.0000e-005	1.8500e-003	1.1000e-004	1.9600e-003	5.0000e-004	1.0000e-004	5.9000e-004	0.0000	2.9100	2.9100	8.0000e-005	0.0000	2.9116

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					2.0500e-003	0.0000	2.0500e-003	3.1000e-004	0.0000	3.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0272	0.2659	0.2087	2.4000e-004		0.0161	0.0161		0.0150	0.0150	0.0000	22.2938	22.2938	5.6600e-003	0.0000	22.4125
Total	0.0272	0.2659	0.2087	2.4000e-004	2.0500e-003	0.0161	0.0181	3.1000e-004	0.0150	0.0153	0.0000	22.2938	22.2938	5.6600e-003	0.0000	22.4125

3.2 Demolition - 2017

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	4.1000e-004	6.5600e-003	5.1700e-003	2.0000e-005	4.2000e-004	1.0000e-004	5.2000e-004	1.2000e-004	9.0000e-005	2.0000e-004	0.0000	1.6250	1.6250	1.0000e-005	0.0000	1.6253
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	6.9000e-004	7.1800e-003	2.0000e-005	1.4300e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2850	1.2850	7.0000e-005	0.0000	1.2864
Total	8.8000e-004	7.2500e-003	0.0124	4.0000e-005	1.8500e-003	1.1000e-004	1.9600e-003	5.0000e-004	1.0000e-004	5.9000e-004	0.0000	2.9100	2.9100	8.0000e-005	0.0000	2.9116

3.3 Site Preparation - 2017

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					0.0582	0.0000	0.0582	0.0319	0.0000	0.0319	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0254	0.2665	0.1752	1.9000e-004		0.0144	0.0144		0.0132	0.0132	0.0000	17.4845	17.4845	5.3600e-003	0.0000	17.5970
Total	0.0254	0.2665	0.1752	1.9000e-004	0.0582	0.0144	0.0726	0.0319	0.0132	0.0451	0.0000	17.4845	17.4845	5.3600e-003	0.0000	17.5970

3.3 Site Preparation - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	4.7000e-004	4.8600e-003	1.0000e-005	9.7000e-004	1.0000e-005	9.7000e-004	2.6000e-004	1.0000e-005	2.6000e-004	0.0000	0.8698	0.8698	4.0000e-005	0.0000	0.8708
Total	3.2000e-004	4.7000e-004	4.8600e-003	1.0000e-005	9.7000e-004	1.0000e-005	9.7000e-004	2.6000e-004	1.0000e-005	2.6000e-004	0.0000	0.8698	0.8698	4.0000e-005	0.0000	0.8708

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					0.0227	0.0000	0.0227	0.0124	0.0000	0.0124	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0254	0.2665	0.1752	1.9000e-004		0.0144	0.0144		0.0132	0.0132	0.0000	17.4845	17.4845	5.3600e-003	0.0000	17.5970
Total	0.0254	0.2665	0.1752	1.9000e-004	0.0227	0.0144	0.0371	0.0124	0.0132	0.0257	0.0000	17.4845	17.4845	5.3600e-003	0.0000	17.5970

3.3 Site Preparation - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	4.7000e-004	4.8600e-003	1.0000e-005	9.7000e-004	1.0000e-005	9.7000e-004	2.6000e-004	1.0000e-005	2.6000e-004	0.0000	0.8698	0.8698	4.0000e-005	0.0000	0.8708
Total	3.2000e-004	4.7000e-004	4.8600e-003	1.0000e-005	9.7000e-004	1.0000e-005	9.7000e-004	2.6000e-004	1.0000e-005	2.6000e-004	0.0000	0.8698	0.8698	4.0000e-005	0.0000	0.8708

3.4 Grading - 2017

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					0.0484	0.0000	0.0484	0.0262	0.0000	0.0262	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0198	0.2078	0.1384	1.5000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	13.7089	13.7089	4.2000e-003	0.0000	13.7971
Total	0.0198	0.2078	0.1384	1.5000e-004	0.0484	0.0112	0.0596	0.0262	0.0103	0.0365	0.0000	13.7089	13.7089	4.2000e-003	0.0000	13.7971

3.4 Grading - 2017

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	0.0137	0.2175	0.1716	6.0000e-004	0.0139	3.1900e-003	0.0171	3.8200e-003	2.9300e-003	6.7500e-003	0.0000	53.8904	53.8904	3.9000e-004	0.0000	53.8986
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	4.5000e-004	4.6400e-003	1.0000e-005	9.2000e-004	1.0000e-005	9.3000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.8303	0.8303	4.0000e-005	0.0000	0.8312
Total	0.0140	0.2179	0.1763	6.1000e-004	0.0149	3.2000e-003	0.0181	4.0600e-003	2.9400e-003	7.0000e-003	0.0000	54.7207	54.7207	4.3000e-004	0.0000	54.7297

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					0.0189	0.0000	0.0189	0.0102	0.0000	0.0102	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0198	0.2078	0.1384	1.5000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	13.7089	13.7089	4.2000e-003	0.0000	13.7971
Total	0.0198	0.2078	0.1384	1.5000e-004	0.0189	0.0112	0.0301	0.0102	0.0103	0.0205	0.0000	13.7089	13.7089	4.2000e-003	0.0000	13.7971

3.4 Grading - 2017**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	0.0137	0.2175	0.1716	6.0000e-004	0.0139	3.1900e-003	0.0171	3.8200e-003	2.9300e-003	6.7500e-003	0.0000	53.8904	53.8904	3.9000e-004	0.0000	53.8986
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-004	4.5000e-004	4.6400e-003	1.0000e-005	9.2000e-004	1.0000e-005	9.3000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.8303	0.8303	4.0000e-005	0.0000	0.8312
Total	0.0140	0.2179	0.1763	6.1000e-004	0.0149	3.2000e-003	0.0181	4.0600e-003	2.9400e-003	7.0000e-003	0.0000	54.7207	54.7207	4.3000e-004	0.0000	54.7297

3.5 Building Construction - 2017**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	0.2940	1.9013	1.4240	2.1800e-003		0.1220	0.1220		0.1176	0.1176	0.0000	183.6246	183.6246	0.0385	0.0000	184.4337
Total	0.2940	1.9013	1.4240	2.1800e-003		0.1220	0.1220		0.1176	0.1176	0.0000	183.6246	183.6246	0.0385	0.0000	184.4337

3.5 Building Construction - 2017

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	0.0000
Vendor	7.2900e-003	0.0740	0.0989	1.9000e-004	5.5100e-003	1.1300e-003	6.6400e-003	1.5700e-003	1.0400e-003	2.6100e-003	0.0000	17.3777	17.3777	1.2000e-004	0.0000	17.3803	
Worker	0.0150	0.0222	0.2310	5.6000e-004	0.0459	3.8000e-004	0.0462	0.0122	3.5000e-004	0.0125	0.0000	41.3068	41.3068	2.1300e-003	0.0000	41.3516	
Total	0.0223	0.0962	0.3299	7.5000e-004	0.0514	1.5100e-003	0.0529	0.0138	1.3900e-003	0.0151	0.0000	58.6845	58.6845	2.2500e-003	0.0000	58.7319	

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	0.2940	1.9013	1.4240	2.1800e-003		0.1220	0.1220		0.1176	0.1176	0.0000	183.6244	183.6244	0.0385	0.0000	184.4335	
Total	0.2940	1.9013	1.4240	2.1800e-003		0.1220	0.1220		0.1176	0.1176	0.0000	183.6244	183.6244	0.0385	0.0000	184.4335	

3.5 Building Construction - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.2900e-003	0.0740	0.0989	1.9000e-004	5.5100e-003	1.1300e-003	6.6400e-003	1.5700e-003	1.0400e-003	2.6100e-003	0.0000	17.3777	17.3777	1.2000e-004	0.0000	17.3803
Worker	0.0150	0.0222	0.2310	5.6000e-004	0.0459	3.8000e-004	0.0462	0.0122	3.5000e-004	0.0125	0.0000	41.3068	41.3068	2.1300e-003	0.0000	41.3516
Total	0.0223	0.0962	0.3299	7.5000e-004	0.0514	1.5100e-003	0.0529	0.0138	1.3900e-003	0.0151	0.0000	58.6845	58.6845	2.2500e-003	0.0000	58.7319

3.5 Building Construction - 2018

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	0.1111	0.7446	0.5949	9.4000e-004		0.0453	0.0453		0.0437	0.0437	0.0000	78.8532	78.8532	0.0158	0.0000	79.1857
Total	0.1111	0.7446	0.5949	9.4000e-004		0.0453	0.0453		0.0437	0.0437	0.0000	78.8532	78.8532	0.0158	0.0000	79.1857

3.5 Building Construction - 2018

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	0.0000
Vendor	2.9500e-003	0.0294	0.0410	8.0000e-005	2.3800e-003	4.6000e-004	2.8400e-003	6.8000e-004	4.2000e-004	1.1000e-003	0.0000	7.3840	7.3840	5.0000e-005	0.0000	7.3851	
Worker	5.8300e-003	8.7100e-003	0.0904	2.4000e-004	0.0198	1.6000e-004	0.0200	5.2600e-003	1.5000e-004	5.4100e-003	0.0000	17.1849	17.1849	8.6000e-004	0.0000	17.2028	
Total	8.7800e-003	0.0381	0.1313	3.2000e-004	0.0222	6.2000e-004	0.0228	5.9400e-003	5.7000e-004	6.5100e-003	0.0000	24.5688	24.5688	9.1000e-004	0.0000	24.5879	

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	0.1111	0.7446	0.5949	9.4000e-004		0.0453	0.0453		0.0437	0.0437	0.0000	78.8531	78.8531	0.0158	0.0000	79.1856
Total	0.1111	0.7446	0.5949	9.4000e-004		0.0453	0.0453		0.0437	0.0437	0.0000	78.8531	78.8531	0.0158	0.0000	79.1856

3.5 Building Construction - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9500e-003	0.0294	0.0410	8.0000e-005	2.3800e-003	4.6000e-004	2.8400e-003	6.8000e-004	4.2000e-004	1.1000e-003	0.0000	7.3840	7.3840	5.0000e-005	0.0000	7.3851
Worker	5.8300e-003	8.7100e-003	0.0904	2.4000e-004	0.0198	1.6000e-004	0.0200	5.2600e-003	1.5000e-004	5.4100e-003	0.0000	17.1849	17.1849	8.6000e-004	0.0000	17.2028
Total	8.7800e-003	0.0381	0.1313	3.2000e-004	0.0222	6.2000e-004	0.0228	5.9400e-003	5.7000e-004	6.5100e-003	0.0000	24.5688	24.5688	9.1000e-004	0.0000	24.5879

3.6 Paving - 2018

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	0.0151	0.1546	0.1331	2.0000e-004		9.0400e-003	9.0400e-003		8.3300e-003	8.3300e-003	0.0000	18.0517	18.0517	5.5100e-003	0.0000	18.1675
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0151	0.1546	0.1331	2.0000e-004		9.0400e-003	9.0400e-003		8.3300e-003	8.3300e-003	0.0000	18.0517	18.0517	5.5100e-003	0.0000	18.1675

3.6 Paving - 2018

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	9.4000e-004	9.7600e-003	3.0000e-005	2.1400e-003	2.0000e-005	2.1600e-003	5.7000e-004	2.0000e-005	5.8000e-004	0.0000	1.8555	1.8555	9.0000e-005	0.0000	1.8575
Total	6.3000e-004	9.4000e-004	9.7600e-003	3.0000e-005	2.1400e-003	2.0000e-005	2.1600e-003	5.7000e-004	2.0000e-005	5.8000e-004	0.0000	1.8555	1.8555	9.0000e-005	0.0000	1.8575

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	0.0151	0.1546	0.1331	2.0000e-004		9.0400e-003	9.0400e-003		8.3300e-003	8.3300e-003	0.0000	18.0517	18.0517	5.5100e-003	0.0000	18.1675
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0151	0.1546	0.1331	2.0000e-004		9.0400e-003	9.0400e-003		8.3300e-003	8.3300e-003	0.0000	18.0517	18.0517	5.5100e-003	0.0000	18.1675

3.6 Paving - 2018

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	9.4000e-004	9.7600e-003	3.0000e-005	2.1400e-003	2.0000e-005	2.1600e-003	5.7000e-004	2.0000e-005	5.8000e-004	0.0000	1.8555	1.8555	9.0000e-005	0.0000	1.8575
Total	6.3000e-004	9.4000e-004	9.7600e-003	3.0000e-005	2.1400e-003	2.0000e-005	2.1600e-003	5.7000e-004	2.0000e-005	5.8000e-004	0.0000	1.8555	1.8555	9.0000e-005	0.0000	1.8575

3.7 Architectural Coating - 2018

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	0.4448					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4800e-003	0.0301	0.0278	4.0000e-005		2.2600e-003	2.2600e-003		2.2600e-003	2.2600e-003	0.0000	3.8299	3.8299	3.6000e-004	0.0000	3.8375
Total	0.4493	0.0301	0.0278	4.0000e-005		2.2600e-003	2.2600e-003		2.2600e-003	2.2600e-003	0.0000	3.8299	3.8299	3.6000e-004	0.0000	3.8375

3.7 Architectural Coating - 2018

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	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	0.0000
Worker	3.9000e-004	5.8000e-004	6.0100e-003	2.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1419	1.1419	6.0000e-005	0.0000	1.1431	
Total	3.9000e-004	5.8000e-004	6.0100e-003	2.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1419	1.1419	6.0000e-005	0.0000	1.1431	

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	0.4448					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4800e-003	0.0301	0.0278	4.0000e-005		2.2600e-003	2.2600e-003		2.2600e-003	2.2600e-003	0.0000	3.8299	3.8299	3.6000e-004	0.0000	3.8375	
Total	0.4493	0.0301	0.0278	4.0000e-005		2.2600e-003	2.2600e-003		2.2600e-003	2.2600e-003	0.0000	3.8299	3.8299	3.6000e-004	0.0000	3.8375	

3.7 Architectural Coating - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	5.8000e-004	6.0100e-003	2.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1419	1.1419	6.0000e-005	0.0000	1.1431
Total	3.9000e-004	5.8000e-004	6.0100e-003	2.0000e-005	1.3200e-003	1.0000e-005	1.3300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1419	1.1419	6.0000e-005	0.0000	1.1431

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1711	0.5447	2.0389	5.5300e-003	0.3783	7.8000e-003	0.3861	0.1012	7.1800e-003	0.1084	0.0000	414.7829	414.7829	0.0156	0.0000	415.1108
Unmitigated	0.1711	0.5447	2.0389	5.5300e-003	0.3783	7.8000e-003	0.3861	0.1012	7.1800e-003	0.1084	0.0000	414.7829	414.7829	0.0156	0.0000	415.1108

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	292.60	315.04	267.08	998,355	998,355
Enclosed Parking with Elevator	0.00	0.00	0.00		
Total	292.60	315.04	267.08	998,355	998,355

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.512137	0.059943	0.180601	0.139123	0.042256	0.006647	0.016115	0.031670	0.001940	0.002502	0.004362	0.000588	0.002117

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	159.5451	159.5451	4.1500e-003	8.6000e-004	159.8983
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	159.5451	159.5451	4.1500e-003	8.6000e-004	159.8983
NaturalGas Mitigated	1.7000e-003	0.0146	6.2000e-003	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	16.8724	16.8724	3.2000e-004	3.1000e-004	16.9750
NaturalGas Unmitigated	1.7000e-003	0.0146	6.2000e-003	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	16.8724	16.8724	3.2000e-004	3.1000e-004	16.9750

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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Apartments High Rise	316176	1.7000e-003	0.0146	6.2000e-003	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	16.8724	16.8724	3.2000e-004	3.1000e-004	16.9750
Total		1.7000e-003	0.0146	6.2000e-003	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	16.8724	16.8724	3.2000e-004	3.1000e-004	16.9750

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments High Rise	316176	1.7000e-003	0.0146	6.2000e-003	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	16.8724	16.8724	3.2000e-004	3.1000e-004	16.9750
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		1.7000e-003	0.0146	6.2000e-003	9.0000e-005		1.1800e-003	1.1800e-003		1.1800e-003	1.1800e-003	0.0000	16.8724	16.8724	3.2000e-004	3.1000e-004	16.9750

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	156746	79.2989	2.0600e-003	4.3000e-004	79.4744
Enclosed Parking with Elevator	158619	80.2463	2.0900e-003	4.3000e-004	80.4239
Total		159.5451	4.1500e-003	8.6000e-004	159.8983

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	156746	79.2989	2.0600e-003	4.3000e-004	79.4744
Enclosed Parking with Elevator	158619	80.2463	2.0900e-003	4.3000e-004	80.4239
Total		159.5451	4.1500e-003	8.6000e-004	159.8983

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use only Natural Gas Hearths
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3036	5.3100e-003	0.4573	2.0000e-005		3.1600e-003	3.1600e-003		3.1500e-003	3.1500e-003	0.0000	10.2512	10.2512	9.2000e-004	1.7000e-004	10.3246
Unmitigated	0.4468	8.9600e-003	0.7337	4.6000e-004		0.0445	0.0445		0.0445	0.0445	4.6736	9.7229	14.3966	0.0147	3.2000e-004	14.8030

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	0.0445					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2440					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.1441	3.6600e-003	0.2765	4.4000e-004		0.0420	0.0420		0.0420	0.0420	4.6736	8.9811	13.6548	0.0139	3.2000e-004	14.0458
Landscaping	0.0141	5.3100e-003	0.4573	2.0000e-005		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003	0.0000	0.7418	0.7418	7.4000e-004	0.0000	0.7573
Total	0.4468	8.9700e-003	0.7337	4.6000e-004		0.0445	0.0445		0.0445	0.0445	4.6736	9.7229	14.3966	0.0147	3.2000e-004	14.8031

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	0.0445					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2440					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	9.6000e-004	0.0000	5.0000e-005	0.0000		6.6000e-004	6.6000e-004		6.6000e-004	6.6000e-004	0.0000	9.5094	9.5094	1.8000e-004	1.7000e-004	9.5673
Landscaping	0.0141	5.3100e-003	0.4573	2.0000e-005		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003	0.0000	0.7418	0.7418	7.4000e-004	0.0000	0.7573
Total	0.3036	5.3100e-003	0.4573	2.0000e-005		3.1600e-003	3.1600e-003		3.1600e-003	3.1600e-003	0.0000	10.2512	10.2512	9.2000e-004	1.7000e-004	10.3246

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	25.3738	0.0754	1.8900e-003	27.5436
Unmitigated	29.9523	0.0942	2.3600e-003	32.6621

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	2.86678 / 1.80732	29.9523	0.0942	2.3600e-003	32.6621
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		29.9523	0.0942	2.3600e-003	32.6621

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	2.29342 / 1.69707	25.3738	0.0754	1.8900e-003	27.5436
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		25.3738	0.0754	1.8900e-003	27.5436

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.0543	0.1214	0.0000	4.6038
Unmitigated	4.1085	0.2428	0.0000	9.2075

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	20.24	4.1085	0.2428	0.0000	9.2075
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		4.1085	0.2428	0.0000	9.2075

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	10.12	2.0543	0.1214	0.0000	4.6038
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		2.0543	0.1214	0.0000	4.6038

9.0 Operational Offroad

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

Kenwood Project
South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	23.54	1000sqft	0.52	23,534.00	0
Apartments High Rise	44.00	Dwelling Unit	0.52	44,000.00	132

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	12			Operational Year	2018
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MWhr)	1115.33	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - The project would develop 44 multifamily residential units, or approximately .52 acre.

Construction Phase - Construction would take approximately 20 months and would involve demolition, site preparation/grading, and building construction.

Demolition -

Grading - .52-acre, would be disturbed

Woodstoves - No woodstoves

Construction Off-road Equipment Mitigation - Fugitive dust control measures pursuant with SCAQMD Rule 403

Mobile Land Use Mitigation -

Area Mitigation - VOC control measures pursuant to SCAQMD Rule 1113

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Vehicle Trips - 6.65 Apartment ITE 220

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	NumDays	200.00	285.00
tblConstructionPhase	NumDays	4.00	21.00
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	NumDays	2.00	22.00
tblConstructionPhase	PhaseEndDate	3/29/2017	3/27/2017
tblConstructionPhase	PhaseStartDate	3/1/2017	2/27/2017
tblConstructionPhase	PhaseStartDate	1/28/2017	1/30/2017
tblGrading	AcresOfGrading	7.88	0.52
tblGrading	AcresOfGrading	11.00	0.52
tblGrading	MaterialExported	0.00	13,000.00
tblLandUse	LandUseSquareFeet	23,540.00	23,534.00
tblLandUse	LotAcreage	0.54	0.52
tblLandUse	LotAcreage	0.71	0.52
tblLandUse	Population	126.00	132.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblVehicleTrips	WD_TR	6.59	6.65

2.0 Emissions Summary

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	13.2234	0.3350	25.7744	0.0354		3.3811	3.3811		3.3805	3.3805	412.1444	798.5415	1,210.6859	1.2356	0.0280	1,245.3049
Energy	9.3400e-003	0.0798	0.0340	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.9101	101.9101	1.9500e-003	1.8700e-003	102.5303
Mobile	1.0343	3.0104	12.1863	0.0341	2.2831	0.0462	2.3293	0.6100	0.0426	0.6526		2,814.7705	2,814.7705	0.1021		2,816.9140
Total	14.2670	3.4252	37.9946	0.0700	2.2831	3.4337	5.7168	0.6100	3.4295	4.0396	412.1444	3,715.2220	4,127.3664	1.3396	0.0298	4,164.7493

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.7707	0.0425	3.6624	1.9000e-004		0.0731	0.0731		0.0725	0.0725	0.0000	845.1297	845.1297	0.0226	0.0154	850.3695
Energy	9.3400e-003	0.0798	0.0340	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.9101	101.9101	1.9500e-003	1.8700e-003	102.5303
Mobile	1.0343	3.0104	12.1863	0.0341	2.2831	0.0462	2.3293	0.6100	0.0426	0.6526		2,814.7705	2,814.7705	0.1021		2,816.9140
Total	2.8143	3.1327	15.8826	0.0348	2.2831	0.1257	2.4088	0.6100	0.1215	0.7315	0.0000	3,761.8102	3,761.8102	0.1266	0.0172	3,769.8139

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	80.27	8.54	58.20	50.26	0.00	96.34	57.86	0.00	96.46	81.89	100.00	-1.25	8.86	90.55	42.23	9.48

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	1/27/2017	5	20	
2	Site Preparation	Site Preparation	1/30/2017	2/28/2017	5	22	
3	Grading	Grading	2/27/2017	3/27/2017	5	21	
4	Building Construction	Building Construction	3/28/2017	4/30/2018	5	285	
5	Paving	Paving	5/1/2018	6/11/2018	5	30	
6	Architectural Coating	Architectural Coating	6/12/2018	7/23/2018	5	30	

Acres of Grading (Site Preparation Phase): 0.52

Acres of Grading (Grading Phase): 0.52

Acres of Paving: 0

Residential Indoor: 89,100; Residential Outdoor: 29,700; Non-Residential Indoor: 35,301; Non-Residential Outdoor: 11,767 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Site Preparation	Graders	1	8.00	174	0.41
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	1	7.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	174	0.41
Grading	Rubber Tired Dozers	1	6.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	49.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	1,625.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	42.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5266	0.0000	0.5266	0.0797	0.0000	0.0797			0.0000			0.0000
Off-Road	2.7216	26.5855	20.8712	0.0245		1.6062	1.6062		1.5022	1.5022		2,457.468 2	2,457.468 2	0.6235		2,470.562 0
Total	2.7216	26.5855	20.8712	0.0245	0.5266	1.6062	2.1328	0.0797	1.5022	1.5820		2,457.468 2	2,457.468 2	0.6235		2,470.562 0

3.2 Demolition - 2017

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	0.0399	0.6223	0.4573	1.8100e-003	0.0427	9.6000e-003	0.0523	0.0117	8.8300e-003	0.0205		179.3050	179.3050	1.2800e-003		179.3318
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	0.0487	0.0611	0.7632	1.8400e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		148.7275	148.7275	7.3200e-003		148.8811
Total	0.0886	0.6834	1.2204	3.6500e-003	0.1880	0.0108	0.1988	0.0502	9.9100e-003	0.0601		328.0324	328.0324	8.6000e-003		328.2130

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2054	0.0000	0.2054	0.0311	0.0000	0.0311			0.0000			0.0000
Off-Road	2.7216	26.5855	20.8712	0.0245		1.6062	1.6062		1.5022	1.5022	0.0000	2,457.4682	2,457.4682	0.6235		2,470.5620
Total	2.7216	26.5855	20.8712	0.0245	0.2054	1.6062	1.8116	0.0311	1.5022	1.5333	0.0000	2,457.4682	2,457.4682	0.6235		2,470.5620

3.2 Demolition - 2017

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	0.0399	0.6223	0.4573	1.8100e-003	0.0427	9.6000e-003	0.0523	0.0117	8.8300e-003	0.0205		179.3050	179.3050	1.2800e-003		179.3318
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	0.0487	0.0611	0.7632	1.8400e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		148.7275	148.7275	7.3200e-003		148.8811
Total	0.0886	0.6834	1.2204	3.6500e-003	0.1880	0.0108	0.1988	0.0502	9.9100e-003	0.0601		328.0324	328.0324	8.6000e-003		328.2130

3.3 Site Preparation - 2017

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					5.2944	0.0000	5.2944	2.8992	0.0000	2.8992			0.0000			0.0000
Off-Road	2.3109	24.2288	15.9299	0.0171		1.3067	1.3067		1.2022	1.2022		1,752.1239	1,752.1239	0.5369		1,763.3977
Total	2.3109	24.2288	15.9299	0.0171	5.2944	1.3067	6.6011	2.8992	1.2022	4.1014		1,752.1239	1,752.1239	0.5369		1,763.3977

3.3 Site Preparation - 2017

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	0.0299	0.0376	0.4696	1.1300e-003	0.0894	7.2000e-004	0.0901	0.0237	6.6000e-004	0.0244		91.5246	91.5246	4.5000e-003			91.6192
Total	0.0299	0.0376	0.4696	1.1300e-003	0.0894	7.2000e-004	0.0901	0.0237	6.6000e-004	0.0244		91.5246	91.5246	4.5000e-003			91.6192

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					2.0648	0.0000	2.0648	1.1307	0.0000	1.1307			0.0000				0.0000
Off-Road	2.3109	24.2288	15.9299	0.0171		1.3067	1.3067		1.2022	1.2022	0.0000	1,752.1239	1,752.1239	0.5369			1,763.3977
Total	2.3109	24.2288	15.9299	0.0171	2.0648	1.3067	3.3715	1.1307	1.2022	2.3329	0.0000	1,752.1239	1,752.1239	0.5369			1,763.3977

3.3 Site Preparation - 2017

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	0.0299	0.0376	0.4696	1.1300e-003	0.0894	7.2000e-004	0.0901	0.0237	6.6000e-004	0.0244		91.5246	91.5246	4.5000e-003			91.6192
Total	0.0299	0.0376	0.4696	1.1300e-003	0.0894	7.2000e-004	0.0901	0.0237	6.6000e-004	0.0244		91.5246	91.5246	4.5000e-003			91.6192

3.4 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					4.6128	0.0000	4.6128	2.4961	0.0000	2.4961			0.0000				0.0000
Off-Road	1.8844	19.7889	13.1786	0.0141		1.0661	1.0661		0.9808	0.9808		1,439.1894	1,439.1894	0.4410			1,448.4496
Total	1.8844	19.7889	13.1786	0.0141	4.6128	1.0661	5.6790	2.4961	0.9808	3.4769		1,439.1894	1,439.1894	0.4410			1,448.4496

3.4 Grading - 2017

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	1.2611	19.6537	14.4426	0.0571	1.3482	0.3032	1.6515	0.3692	0.2789	0.6481		5,663.1787	5,663.1787	0.0404		5,664.0280
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	0.0299	0.0376	0.4696	1.1300e-003	0.0894	7.2000e-004	0.0901	0.0237	6.6000e-004	0.0244		91.5246	91.5246	4.5000e-003		91.6192
Total	1.2910	19.6913	14.9123	0.0582	1.4376	0.3039	1.7416	0.3929	0.2796	0.6725		5,754.7033	5,754.7033	0.0449		5,755.6472

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7990	0.0000	1.7990	0.9735	0.0000	0.9735			0.0000			0.0000
Off-Road	1.8844	19.7889	13.1786	0.0141		1.0661	1.0661		0.9808	0.9808	0.0000	1,439.1894	1,439.1894	0.4410		1,448.4496
Total	1.8844	19.7889	13.1786	0.0141	1.7990	1.0661	2.8651	0.9735	0.9808	1.9543	0.0000	1,439.1894	1,439.1894	0.4410		1,448.4496

3.4 Grading - 2017

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	1.2611	19.6537	14.4426	0.0571	1.3482	0.3032	1.6515	0.3692	0.2789	0.6481		5,663.1787	5,663.1787	0.0404		5,664.0280
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	0.0299	0.0376	0.4696	1.1300e-003	0.0894	7.2000e-004	0.0901	0.0237	6.6000e-004	0.0244		91.5246	91.5246	4.5000e-003		91.6192
Total	1.2910	19.6913	14.9123	0.0582	1.4376	0.3039	1.7416	0.3929	0.2796	0.6725		5,754.7033	5,754.7033	0.0449		5,755.6472

3.5 Building Construction - 2017

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	2.9546	19.1088	14.3110	0.0220		1.2257	1.2257		1.1823	1.1823		2,034.2860	2,034.2860	0.4268		2,043.2497
Total	2.9546	19.1088	14.3110	0.0220		1.2257	1.2257		1.1823	1.1823		2,034.2860	2,034.2860	0.4268		2,043.2497

3.5 Building Construction - 2017

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	0.0689	0.7117	0.8443	1.9600e-003	0.0563	0.0113	0.0676	0.0160	0.0104	0.0264		193.2004	193.2004	1.3600e-003			193.2291
Worker	0.1572	0.1975	2.4656	5.9500e-003	0.4695	3.7800e-003	0.4732	0.1245	3.4800e-003	0.1280		480.5042	480.5042	0.0236			481.0006
Total	0.2261	0.9092	3.3098	7.9100e-003	0.5257	0.0151	0.5408	0.1405	0.0139	0.1544		673.7046	673.7046	0.0250			674.2296

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.9546	19.1088	14.3110	0.0220		1.2257	1.2257		1.1823	1.1823	0.0000	2,034.2860	2,034.2860	0.4268			2,043.2497
Total	2.9546	19.1088	14.3110	0.0220		1.2257	1.2257		1.1823	1.1823	0.0000	2,034.2860	2,034.2860	0.4268			2,043.2497

3.5 Building Construction - 2017

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	0.0689	0.7117	0.8443	1.9600e-003	0.0563	0.0113	0.0676	0.0160	0.0104	0.0264		193.2004	193.2004	1.3600e-003		193.2291
Worker	0.1572	0.1975	2.4656	5.9500e-003	0.4695	3.7800e-003	0.4732	0.1245	3.4800e-003	0.1280		480.5042	480.5042	0.0236		481.0006
Total	0.2261	0.9092	3.3098	7.9100e-003	0.5257	0.0151	0.5408	0.1405	0.0139	0.1544		673.7046	673.7046	0.0250		674.2296

3.5 Building Construction - 2018

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	2.5826	17.3173	13.8357	0.0220		1.0532	1.0532		1.0172	1.0172		2,021.4136	2,021.4136	0.4059		2,029.9373
Total	2.5826	17.3173	13.8357	0.0220		1.0532	1.0532		1.0172	1.0172		2,021.4136	2,021.4136	0.4059		2,029.9373

3.5 Building Construction - 2018

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	0.0646	0.6536	0.8044	1.9500e-003	0.0563	0.0107	0.0669	0.0160	9.8200e-003	0.0258		189.9606	189.9606	1.3500e-003			189.9891
Worker	0.1417	0.1792	2.2402	5.9400e-003	0.4695	3.6800e-003	0.4731	0.1245	3.4000e-003	0.1279		462.6248	462.6248	0.0219			463.0855
Total	0.2064	0.8327	3.0446	7.8900e-003	0.5257	0.0144	0.5401	0.1405	0.0132	0.1537		652.5854	652.5854	0.0233			653.0746

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	2.5826	17.3173	13.8357	0.0220		1.0532	1.0532		1.0172	1.0172	0.0000	2,021.4136	2,021.4136	0.4059			2,029.9373
Total	2.5826	17.3173	13.8357	0.0220		1.0532	1.0532		1.0172	1.0172	0.0000	2,021.4136	2,021.4136	0.4059			2,029.9373

3.5 Building Construction - 2018

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	0.0646	0.6536	0.8044	1.9500e-003	0.0563	0.0107	0.0669	0.0160	9.8200e-003	0.0258		189.9606	189.9606	1.3500e-003			189.9891
Worker	0.1417	0.1792	2.2402	5.9400e-003	0.4695	3.6800e-003	0.4731	0.1245	3.4000e-003	0.1279		462.6248	462.6248	0.0219			463.0855
Total	0.2064	0.8327	3.0446	7.8900e-003	0.5257	0.0144	0.5401	0.1405	0.0132	0.1537		652.5854	652.5854	0.0233			653.0746

3.6 Paving - 2018

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	1.0052	10.3081	8.8698	0.0133		0.6027	0.6027		0.5553	0.5553		1,326.5758	1,326.5758	0.4051			1,335.0833
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.0052	10.3081	8.8698	0.0133		0.6027	0.6027		0.5553	0.5553		1,326.5758	1,326.5758	0.4051			1,335.0833

3.6 Paving - 2018

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	0.0439	0.0555	0.6934	1.8400e-003	0.1453	1.1400e-003	0.1465	0.0385	1.0500e-003	0.0396		143.1934	143.1934	6.7900e-003			143.3360
Total	0.0439	0.0555	0.6934	1.8400e-003	0.1453	1.1400e-003	0.1465	0.0385	1.0500e-003	0.0396		143.1934	143.1934	6.7900e-003			143.3360

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	1.0052	10.3081	8.8698	0.0133		0.6027	0.6027		0.5553	0.5553	0.0000	1,326.5758	1,326.5758	0.4051			1,335.0833
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.0052	10.3081	8.8698	0.0133		0.6027	0.6027		0.5553	0.5553	0.0000	1,326.5758	1,326.5758	0.4051			1,335.0833

3.6 Paving - 2018

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	0.0439	0.0555	0.6934	1.8400e-003	0.1453	1.1400e-003	0.1465	0.0385	1.0500e-003	0.0396		143.1934	143.1934	6.7900e-003			143.3360
Total	0.0439	0.0555	0.6934	1.8400e-003	0.1453	1.1400e-003	0.1465	0.0385	1.0500e-003	0.0396		143.1934	143.1934	6.7900e-003			143.3360

3.7 Architectural Coating - 2018

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	29.6516					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267			282.0102
Total	29.9503	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267			282.0102

3.7 Architectural Coating - 2018

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	0.0270	0.0341	0.4267	1.1300e-003	0.0894	7.0000e-004	0.0901	0.0237	6.5000e-004	0.0244		88.1190	88.1190	4.1800e-003			88.2068
Total	0.0270	0.0341	0.4267	1.1300e-003	0.0894	7.0000e-004	0.0901	0.0237	6.5000e-004	0.0244		88.1190	88.1190	4.1800e-003			88.2068

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	29.6516					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267			282.0102
Total	29.9503	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267			282.0102

3.7 Architectural Coating - 2018

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	0.0270	0.0341	0.4267	1.1300e-003	0.0894	7.0000e-004	0.0901	0.0237	6.5000e-004	0.0244		88.1190	88.1190	4.1800e-003		88.2068
Total	0.0270	0.0341	0.4267	1.1300e-003	0.0894	7.0000e-004	0.0901	0.0237	6.5000e-004	0.0244		88.1190	88.1190	4.1800e-003		88.2068

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.0343	3.0104	12.1863	0.0341	2.2831	0.0462	2.3293	0.6100	0.0426	0.6526		2,814.7705	2,814.7705	0.1021		2,816.9140
Unmitigated	1.0343	3.0104	12.1863	0.0341	2.2831	0.0462	2.3293	0.6100	0.0426	0.6526		2,814.7705	2,814.7705	0.1021		2,816.9140

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	292.60	315.04	267.08	998,355	998,355
Enclosed Parking with Elevator	0.00	0.00	0.00		
Total	292.60	315.04	267.08	998,355	998,355

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.512137	0.059943	0.180601	0.139123	0.042256	0.006647	0.016115	0.031670	0.001940	0.002502	0.004362	0.000588	0.002117

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	9.3400e-003	0.0798	0.0340	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.9101	101.9101	1.9500e-003	1.8700e-003	102.5303
NaturalGas Unmitigated	9.3400e-003	0.0798	0.0340	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.9101	101.9101	1.9500e-003	1.8700e-003	102.5303

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 High Rise	866.236	9.3400e-003	0.0798	0.0340	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.9101	101.9101	1.9500e-003	1.8700e-003	102.5303
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		9.3400e-003	0.0798	0.0340	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.9101	101.9101	1.9500e-003	1.8700e-003	102.5303

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	0.866236	9.3400e-003	0.0798	0.0340	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.9101	101.9101	1.9500e-003	1.8700e-003	102.5303
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		9.3400e-003	0.0798	0.0340	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.9101	101.9101	1.9500e-003	1.8700e-003	102.5303

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use only Natural Gas Hearths
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.7707	0.0425	3.6624	1.9000e-004		0.0731	0.0731		0.0725	0.0725	0.0000	845.1297	845.1297	0.0226	0.0154	850.3695
Unmitigated	13.2234	0.3350	25.7744	0.0354		3.3811	3.3811		3.3805	3.3805	412.1444	798.5415	1,210.6859	1.2356	0.0280	1,245.3049

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3372					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	11.5296	0.2925	22.1162	0.0352		3.3611	3.3611		3.3606	3.3606	412.1444	792.0000	1,204.1444	1.2291	0.0280	1,238.6272
Landscaping	0.1129	0.0425	3.6582	1.9000e-004		0.0200	0.0200		0.0200	0.0200		6.5415	6.5415	6.4900e-003		6.6778
Total	13.2234	0.3350	25.7744	0.0354		3.3811	3.3811		3.3805	3.3805	412.1444	798.5415	1,210.6859	1.2356	0.0280	1,245.3049

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3372					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0769	0.0000	4.1900e-003	0.0000		0.0531	0.0531		0.0526	0.0526	0.0000	838.5882	838.5882	0.0161	0.0154	843.6917
Landscaping	0.1129	0.0425	3.6582	1.9000e-004		0.0200	0.0200		0.0200	0.0200		6.5415	6.5415	6.4900e-003		6.6778
Total	1.7707	0.0425	3.6624	1.9000e-004		0.0731	0.0731		0.0725	0.0725	0.0000	845.1297	845.1297	0.0226	0.0154	850.3695

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

9.0 Operational Offroad

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

Kenwood Project
South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	23.54	1000sqft	0.52	23,534.00	0
Apartments High Rise	44.00	Dwelling Unit	0.52	44,000.00	132

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	12			Operational Year	2018
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MWhr)	1115.33	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - The project would develop 44 multifamily residential units, or approximately .52 acre.

Construction Phase - Construction would take approximately 20 months and would involve demolition, site preparation/grading, and building construction.

Demolition -

Grading - .52-acre, would be disturbed

Woodstoves - No woodstoves

Construction Off-road Equipment Mitigation - Fugitive dust control measures pursuant with SCAQMD Rule 403

Mobile Land Use Mitigation -

Area Mitigation - VOC control measures pursuant to SCAQMD Rule 1113

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Vehicle Trips - 6.65 Apartment ITE 220

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	NumDays	200.00	285.00
tblConstructionPhase	NumDays	4.00	21.00
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	NumDays	2.00	22.00
tblConstructionPhase	PhaseEndDate	3/29/2017	3/27/2017
tblConstructionPhase	PhaseStartDate	3/1/2017	2/27/2017
tblConstructionPhase	PhaseStartDate	1/28/2017	1/30/2017
tblGrading	AcresOfGrading	7.88	0.52
tblGrading	AcresOfGrading	11.00	0.52
tblGrading	MaterialExported	0.00	13,000.00
tblLandUse	LandUseSquareFeet	23,540.00	23,534.00
tblLandUse	LotAcreage	0.54	0.52
tblLandUse	LotAcreage	0.71	0.52
tblLandUse	Population	126.00	132.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblVehicleTrips	WD_TR	6.59	6.65

2.0 Emissions Summary

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	13.2234	0.3350	25.7744	0.0354		3.3811	3.3811		3.3805	3.3805	412.1444	798.5415	1,210.6859	1.2356	0.0280	1,245.3049
Energy	9.3400e-003	0.0798	0.0340	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.9101	101.9101	1.9500e-003	1.8700e-003	102.5303
Mobile	1.0648	3.1648	11.9551	0.0324	2.2831	0.0463	2.3295	0.6100	0.0427	0.6527		2,679.5820	2,679.5820	0.1022		2,681.7274
Total	14.2975	3.5796	37.7635	0.0683	2.2831	3.4338	5.7170	0.6100	3.4297	4.0397	412.1444	3,580.0335	3,992.1779	1.3397	0.0298	4,029.5627

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.7707	0.0425	3.6624	1.9000e-004		0.0731	0.0731		0.0725	0.0725	0.0000	845.1297	845.1297	0.0226	0.0154	850.3695
Energy	9.3400e-003	0.0798	0.0340	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.9101	101.9101	1.9500e-003	1.8700e-003	102.5303
Mobile	1.0648	3.1648	11.9551	0.0324	2.2831	0.0463	2.3295	0.6100	0.0427	0.6527		2,679.5820	2,679.5820	0.1022		2,681.7274
Total	2.8448	3.2870	15.6515	0.0331	2.2831	0.1259	2.4090	0.6100	0.1217	0.7317	0.0000	3,626.6218	3,626.6218	0.1267	0.0172	3,634.6272

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	80.10	8.17	58.55	51.52	0.00	96.33	57.86	0.00	96.45	81.89	100.00	-1.30	9.16	90.54	42.23	9.80

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	1/27/2017	5	20	
2	Site Preparation	Site Preparation	1/30/2017	2/28/2017	5	22	
3	Grading	Grading	2/27/2017	3/27/2017	5	21	
4	Building Construction	Building Construction	3/28/2017	4/30/2018	5	285	
5	Paving	Paving	5/1/2018	6/11/2018	5	30	
6	Architectural Coating	Architectural Coating	6/12/2018	7/23/2018	5	30	

Acres of Grading (Site Preparation Phase): 0.52

Acres of Grading (Grading Phase): 0.52

Acres of Paving: 0

Residential Indoor: 89,100; Residential Outdoor: 29,700; Non-Residential Indoor: 35,301; Non-Residential Outdoor: 11,767 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Site Preparation	Graders	1	8.00	174	0.41
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	1	7.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	174	0.41
Grading	Rubber Tired Dozers	1	6.00	255	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	49.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	1,625.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	42.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5266	0.0000	0.5266	0.0797	0.0000	0.0797			0.0000			0.0000
Off-Road	2.7216	26.5855	20.8712	0.0245		1.6062	1.6062		1.5022	1.5022		2,457.468 2	2,457.468 2	0.6235		2,470.562 0
Total	2.7216	26.5855	20.8712	0.0245	0.5266	1.6062	2.1328	0.0797	1.5022	1.5820		2,457.468 2	2,457.468 2	0.6235		2,470.562 0

3.2 Demolition - 2017

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	0.0420	0.6448	0.5273	1.8000e-003	0.0427	9.6200e-003	0.0523	0.0117	8.8500e-003	0.0205		178.8788	178.8788	1.3000e-003		178.9060
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	0.0496	0.0671	0.7010	1.7200e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		139.4700	139.4700	7.3200e-003		139.6236
Total	0.0916	0.7119	1.2283	3.5200e-003	0.1880	0.0108	0.1988	0.0502	9.9300e-003	0.0602		318.3487	318.3487	8.6200e-003		318.5297

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2054	0.0000	0.2054	0.0311	0.0000	0.0311			0.0000			0.0000
Off-Road	2.7216	26.5855	20.8712	0.0245		1.6062	1.6062		1.5022	1.5022	0.0000	2,457.4682	2,457.4682	0.6235		2,470.5620
Total	2.7216	26.5855	20.8712	0.0245	0.2054	1.6062	1.8116	0.0311	1.5022	1.5333	0.0000	2,457.4682	2,457.4682	0.6235		2,470.5620

3.2 Demolition - 2017

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	0.0420	0.6448	0.5273	1.8000e-003	0.0427	9.6200e-003	0.0523	0.0117	8.8500e-003	0.0205		178.8788	178.8788	1.3000e-003		178.9060
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	0.0496	0.0671	0.7010	1.7200e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		139.4700	139.4700	7.3200e-003		139.6236
Total	0.0916	0.7119	1.2283	3.5200e-003	0.1880	0.0108	0.1988	0.0502	9.9300e-003	0.0602		318.3487	318.3487	8.6200e-003		318.5297

3.3 Site Preparation - 2017

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					5.2944	0.0000	5.2944	2.8992	0.0000	2.8992			0.0000			0.0000
Off-Road	2.3109	24.2288	15.9299	0.0171		1.3067	1.3067		1.2022	1.2022		1,752.1239	1,752.1239	0.5369		1,763.3977
Total	2.3109	24.2288	15.9299	0.0171	5.2944	1.3067	6.6011	2.8992	1.2022	4.1014		1,752.1239	1,752.1239	0.5369		1,763.3977

3.3 Site Preparation - 2017

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	0.0305	0.0413	0.4314	1.0600e-003	0.0894	7.2000e-004	0.0901	0.0237	6.6000e-004	0.0244		85.8277	85.8277	4.5000e-003			85.9222
Total	0.0305	0.0413	0.4314	1.0600e-003	0.0894	7.2000e-004	0.0901	0.0237	6.6000e-004	0.0244		85.8277	85.8277	4.5000e-003			85.9222

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					2.0648	0.0000	2.0648	1.1307	0.0000	1.1307			0.0000			0.0000	
Off-Road	2.3109	24.2288	15.9299	0.0171		1.3067	1.3067		1.2022	1.2022	0.0000	1,752.1239	1,752.1239	0.5369			1,763.3977
Total	2.3109	24.2288	15.9299	0.0171	2.0648	1.3067	3.3715	1.1307	1.2022	2.3329	0.0000	1,752.1239	1,752.1239	0.5369			1,763.3977

3.3 Site Preparation - 2017

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	0.0305	0.0413	0.4314	1.0600e-003	0.0894	7.2000e-004	0.0901	0.0237	6.6000e-004	0.0244		85.8277	85.8277	4.5000e-003		85.9222
Total	0.0305	0.0413	0.4314	1.0600e-003	0.0894	7.2000e-004	0.0901	0.0237	6.6000e-004	0.0244		85.8277	85.8277	4.5000e-003		85.9222

3.4 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.6128	0.0000	4.6128	2.4961	0.0000	2.4961			0.0000			0.0000
Off-Road	1.8844	19.7889	13.1786	0.0141		1.0661	1.0661		0.9808	0.9808		1,439.1894	1,439.1894	0.4410		1,448.4496
Total	1.8844	19.7889	13.1786	0.0141	4.6128	1.0661	5.6790	2.4961	0.9808	3.4769		1,439.1894	1,439.1894	0.4410		1,448.4496

3.4 Grading - 2017

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	1.3265	20.3639	16.6536	0.0570	1.3482	0.3039	1.6521	0.3692	0.2796	0.6487		5,649.7185	5,649.7185	0.0410		5,650.5795
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	0.0305	0.0413	0.4314	1.0600e-003	0.0894	7.2000e-004	0.0901	0.0237	6.6000e-004	0.0244		85.8277	85.8277	4.5000e-003		85.9222
Total	1.3571	20.4053	17.0850	0.0580	1.4376	0.3046	1.7423	0.3929	0.2802	0.6731		5,735.5462	5,735.5462	0.0455		5,736.5017

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7990	0.0000	1.7990	0.9735	0.0000	0.9735			0.0000			0.0000
Off-Road	1.8844	19.7889	13.1786	0.0141		1.0661	1.0661		0.9808	0.9808	0.0000	1,439.1894	1,439.1894	0.4410		1,448.4496
Total	1.8844	19.7889	13.1786	0.0141	1.7990	1.0661	2.8651	0.9735	0.9808	1.9543	0.0000	1,439.1894	1,439.1894	0.4410		1,448.4496

3.4 Grading - 2017

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	1.3265	20.3639	16.6536	0.0570	1.3482	0.3039	1.6521	0.3692	0.2796	0.6487		5,649.7185	5,649.7185	0.0410		5,650.5795
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	0.0305	0.0413	0.4314	1.0600e-003	0.0894	7.2000e-004	0.0901	0.0237	6.6000e-004	0.0244		85.8277	85.8277	4.5000e-003		85.9222
Total	1.3571	20.4053	17.0850	0.0580	1.4376	0.3046	1.7423	0.3929	0.2802	0.6731		5,735.5462	5,735.5462	0.0455		5,736.5017

3.5 Building Construction - 2017

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	2.9546	19.1088	14.3110	0.0220		1.2257	1.2257		1.1823	1.1823		2,034.2860	2,034.2860	0.4268		2,043.2497
Total	2.9546	19.1088	14.3110	0.0220		1.2257	1.2257		1.1823	1.1823		2,034.2860	2,034.2860	0.4268		2,043.2497

3.5 Building Construction - 2017

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	0.0753	0.7292	1.0229	1.9400e-003	0.0563	0.0114	0.0677	0.0160	0.0105	0.0265		191.5775	191.5775	1.4000e-003			191.6070
Worker	0.1603	0.2169	2.2647	5.5700e-003	0.4695	3.7800e-003	0.4732	0.1245	3.4800e-003	0.1280		450.5953	450.5953	0.0236			451.0917
Total	0.2356	0.9461	3.2876	7.5100e-003	0.5257	0.0152	0.5409	0.1405	0.0140	0.1545		642.1727	642.1727	0.0250			642.6987

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	2.9546	19.1088	14.3110	0.0220		1.2257	1.2257		1.1823	1.1823	0.0000	2,034.2860	2,034.2860	0.4268			2,043.2497
Total	2.9546	19.1088	14.3110	0.0220		1.2257	1.2257		1.1823	1.1823	0.0000	2,034.2860	2,034.2860	0.4268			2,043.2497

3.5 Building Construction - 2017

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	0.0753	0.7292	1.0229	1.9400e-003	0.0563	0.0114	0.0677	0.0160	0.0105	0.0265		191.5775	191.5775	1.4000e-003			191.6070
Worker	0.1603	0.2169	2.2647	5.5700e-003	0.4695	3.7800e-003	0.4732	0.1245	3.4800e-003	0.1280		450.5953	450.5953	0.0236			451.0917
Total	0.2356	0.9461	3.2876	7.5100e-003	0.5257	0.0152	0.5409	0.1405	0.0140	0.1545		642.1727	642.1727	0.0250			642.6987

3.5 Building Construction - 2018

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	2.5826	17.3173	13.8357	0.0220		1.0532	1.0532		1.0172	1.0172		2,021.4136	2,021.4136	0.4059			2,029.9373
Total	2.5826	17.3173	13.8357	0.0220		1.0532	1.0532		1.0172	1.0172		2,021.4136	2,021.4136	0.4059			2,029.9373

3.5 Building Construction - 2018

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	0.0704	0.6693	0.9816	1.9400e-003	0.0563	0.0108	0.0670	0.0160	9.9100e-003	0.0259		188.3615	188.3615	1.4000e-003			188.3909
Worker	0.1442	0.1967	2.0496	5.5700e-003	0.4695	3.6800e-003	0.4731	0.1245	3.4000e-003	0.1279		433.7698	433.7698	0.0219			434.2305
Total	0.2146	0.8660	3.0312	7.5100e-003	0.5257	0.0145	0.5402	0.1405	0.0133	0.1538		622.1313	622.1313	0.0233			622.6214

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	2.5826	17.3173	13.8357	0.0220		1.0532	1.0532		1.0172	1.0172	0.0000	2,021.4136	2,021.4136	0.4059			2,029.9373
Total	2.5826	17.3173	13.8357	0.0220		1.0532	1.0532		1.0172	1.0172	0.0000	2,021.4136	2,021.4136	0.4059			2,029.9373

3.5 Building Construction - 2018

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	0.0704	0.6693	0.9816	1.9400e-003	0.0563	0.0108	0.0670	0.0160	9.9100e-003	0.0259		188.3615	188.3615	1.4000e-003		188.3909
Worker	0.1442	0.1967	2.0496	5.5700e-003	0.4695	3.6800e-003	0.4731	0.1245	3.4000e-003	0.1279		433.7698	433.7698	0.0219		434.2305
Total	0.2146	0.8660	3.0312	7.5100e-003	0.5257	0.0145	0.5402	0.1405	0.0133	0.1538		622.1313	622.1313	0.0233		622.6214

3.6 Paving - 2018

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	1.0052	10.3081	8.8698	0.0133		0.6027	0.6027		0.5553	0.5553		1,326.5758	1,326.5758	0.4051		1,335.0833
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0052	10.3081	8.8698	0.0133		0.6027	0.6027		0.5553	0.5553		1,326.5758	1,326.5758	0.4051		1,335.0833

3.6 Paving - 2018

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	0.0446	0.0609	0.6344	1.7200e-003	0.1453	1.1400e-003	0.1465	0.0385	1.0500e-003	0.0396		134.2621	134.2621	6.7900e-003			134.4047
Total	0.0446	0.0609	0.6344	1.7200e-003	0.1453	1.1400e-003	0.1465	0.0385	1.0500e-003	0.0396		134.2621	134.2621	6.7900e-003			134.4047

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	1.0052	10.3081	8.8698	0.0133		0.6027	0.6027		0.5553	0.5553	0.0000	1,326.5758	1,326.5758	0.4051			1,335.0833
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.0052	10.3081	8.8698	0.0133		0.6027	0.6027		0.5553	0.5553	0.0000	1,326.5758	1,326.5758	0.4051			1,335.0833

3.6 Paving - 2018

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	0.0446	0.0609	0.6344	1.7200e-003	0.1453	1.1400e-003	0.1465	0.0385	1.0500e-003	0.0396		134.2621	134.2621	6.7900e-003			134.4047
Total	0.0446	0.0609	0.6344	1.7200e-003	0.1453	1.1400e-003	0.1465	0.0385	1.0500e-003	0.0396		134.2621	134.2621	6.7900e-003			134.4047

3.7 Architectural Coating - 2018

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	29.6516					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267			282.0102
Total	29.9503	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267			282.0102

3.7 Architectural Coating - 2018

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	0.0275	0.0375	0.3904	1.0600e-003	0.0894	7.0000e-004	0.0901	0.0237	6.5000e-004	0.0244		82.6228	82.6228	4.1800e-003			82.7106
Total	0.0275	0.0375	0.3904	1.0600e-003	0.0894	7.0000e-004	0.0901	0.0237	6.5000e-004	0.0244		82.6228	82.6228	4.1800e-003			82.7106

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	29.6516					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267			282.0102
Total	29.9503	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267			282.0102

3.7 Architectural Coating - 2018

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	0.0275	0.0375	0.3904	1.0600e-003	0.0894	7.0000e-004	0.0901	0.0237	6.5000e-004	0.0244		82.6228	82.6228	4.1800e-003		82.7106
Total	0.0275	0.0375	0.3904	1.0600e-003	0.0894	7.0000e-004	0.0901	0.0237	6.5000e-004	0.0244		82.6228	82.6228	4.1800e-003		82.7106

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.0648	3.1648	11.9551	0.0324	2.2831	0.0463	2.3295	0.6100	0.0427	0.6527		2,679.5820	2,679.5820	0.1022		2,681.7274
Unmitigated	1.0648	3.1648	11.9551	0.0324	2.2831	0.0463	2.3295	0.6100	0.0427	0.6527		2,679.5820	2,679.5820	0.1022		2,681.7274

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	292.60	315.04	267.08	998,355	998,355
Enclosed Parking with Elevator	0.00	0.00	0.00		
Total	292.60	315.04	267.08	998,355	998,355

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.512137	0.059943	0.180601	0.139123	0.042256	0.006647	0.016115	0.031670	0.001940	0.002502	0.004362	0.000588	0.002117

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	9.3400e-003	0.0798	0.0340	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.9101	101.9101	1.9500e-003	1.8700e-003	102.5303
NaturalGas Unmitigated	9.3400e-003	0.0798	0.0340	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.9101	101.9101	1.9500e-003	1.8700e-003	102.5303

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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Apartments High Rise	866.236	9.3400e-003	0.0798	0.0340	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.9101	101.9101	1.9500e-003	1.8700e-003	102.5303
Total		9.3400e-003	0.0798	0.0340	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.9101	101.9101	1.9500e-003	1.8700e-003	102.5303

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments High Rise	0.866236	9.3400e-003	0.0798	0.0340	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.9101	101.9101	1.9500e-003	1.8700e-003	102.5303
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		9.3400e-003	0.0798	0.0340	5.1000e-004		6.4500e-003	6.4500e-003		6.4500e-003	6.4500e-003		101.9101	101.9101	1.9500e-003	1.8700e-003	102.5303

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use only Natural Gas Hearths
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.7707	0.0425	3.6624	1.9000e-004		0.0731	0.0731		0.0725	0.0725	0.0000	845.1297	845.1297	0.0226	0.0154	850.3695
Unmitigated	13.2234	0.3350	25.7744	0.0354		3.3811	3.3811		3.3805	3.3805	412.1444	798.5415	1,210.6859	1.2356	0.0280	1,245.3049

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3372					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	11.5296	0.2925	22.1162	0.0352		3.3611	3.3611		3.3606	3.3606	412.1444	792.0000	1,204.1444	1.2291	0.0280	1,238.6272
Landscaping	0.1129	0.0425	3.6582	1.9000e-004		0.0200	0.0200		0.0200	0.0200		6.5415	6.5415	6.4900e-003		6.6778
Total	13.2234	0.3350	25.7744	0.0354		3.3811	3.3811		3.3805	3.3805	412.1444	798.5415	1,210.6859	1.2356	0.0280	1,245.3049

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2437					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3372					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0769	0.0000	4.1900e-003	0.0000		0.0531	0.0531		0.0526	0.0526	0.0000	838.5882	838.5882	0.0161	0.0154	843.6917
Landscaping	0.1129	0.0425	3.6582	1.9000e-004		0.0200	0.0200		0.0200	0.0200		6.5415	6.5415	6.4900e-003		6.6778
Total	1.7707	0.0425	3.6624	1.9000e-004		0.0731	0.0731		0.0725	0.0725	0.0000	845.1297	845.1297	0.0226	0.0154	850.3695

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

9.0 Operational Offroad

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