Artesia HO-O Zone Implementation - Area A

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	134.00	Dwelling Unit	4.45	134,000.00	383

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction hypothesized to start in March 2020 for model purposes.
Project modeled to be operational in 2021.
Project assumes demolition of 57 existing units (43,399 SF) & construction of new units at 30 du/acre.
Demo & construction assumptions for modeling purposes only.

Land Use - Combined Group A lot area less 2 developed parcels, each >0.5 acre, recently developed to 20+ du/acre.
Dimensions from L.A. County Assessor.

Construction Phase - Default construction phases used.

Off-road Equipment - Defaults used.

Off-road Equipment - Estimated real-time use: equipment not expected to be running continuously for 8 hrs/day.

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Grading - Assumes no cut/fill. Terrain is flat.

Off-road Equipment - Cranes anticipated to be used for approx 30 8-hr days/230-day construction period.
30 days/230 days = 0.13 = represents fractional crane use over 230 day period.
All other defaults used.

Off-road Equipment - Defaults used.

Demolition - Existing building square footage obtained from LA Co. Assessor.

Trips and VMT - Defaults used.

On-road Fugitive Dust - Defaults usd.

Architectural Coating - Defaults used.

Woodstoves - Assume no fireplaces or woodstoves included.

Area Coating - Defaults used.

Energy Use - Defaults used.

Water And Wastewater - Defaults used.

Solid Waste - Defaults used.

Land Use Change - No natural vegetation changes - area previously developed, urban.

Sequestration - Assumes 1/4 tree per unit.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Affordable units required in HO-O zone overlay for maximum density eligibility.

Area Mitigation - Zero-VOC coatings indicated to be 5 g/l or less - used Dunn-Edwards "Everest" zero-VOC paint as example.

Energy Mitigation - Required PV installation per 2018 Title 24 Multifamily Residential on-site solar provision.
See California Energy Commission, Residential Compliance Manual, December 2018, p. 7-1 for calculating PV system size.

Water Mitigation - Defaults accepted; assume Ti. 24 compliance for low-flow fixtures.

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Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	5
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	5
tblFireplaces	NumberGas	113.90	0.00
tblFireplaces	NumberNoFireplace	13.40	0.00
tblFireplaces	NumberWood	6.70	0.00
tblGrading	AcresOfGrading	3.00	4.00
tblLandUse	LotAcreage	3.53	4.45
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	0.13
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblSequestration	NumberOfNewTrees	0.00	34.00
tblWoodstoves	NumberCatalytic	6.70	0.00
tblWoodstoves	NumberNoncatalytic	6.70	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.2141	1.6846	1.7832	3.5200e-003	0.1859	0.0902	0.2761	0.0616	0.0847	0.1462	0.0000	311.8253	311.8253	0.0493	0.0000	313.0567
2021	0.4693	0.3810	0.4876	9.3000e-004	0.0289	0.0201	0.0490	7.7300e-003	0.0189	0.0266	0.0000	81.7529	81.7529	0.0134	0.0000	82.0886
Maximum	**0.4693**	**1.6846**	**1.7832**	**3.5200e-003**	**0.1859**	**0.0902**	**0.2761**	**0.0616**	**0.0847**	**0.1462**	**0.0000**	**311.8253**	**311.8253**	**0.0493**	**0.0000**	**313.0567**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.2141	1.6846	1.7832	3.5200e-003	0.1445	0.0902	0.2346	0.0440	0.0847	0.1286	0.0000	311.8251	311.8251	0.0493	0.0000	313.0565
2021	0.4693	0.3810	0.4876	9.3000e-004	0.0289	0.0201	0.0490	7.7300e-003	0.0189	0.0266	0.0000	81.7529	81.7529	0.0134	0.0000	82.0886
Maximum	**0.4693**	**1.6846**	**1.7832**	**3.5200e-003**	**0.1445**	**0.0902**	**0.2346**	**0.0440**	**0.0847**	**0.1286**	**0.0000**	**311.8251**	**311.8251**	**0.0493**	**0.0000**	**313.0565**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**19.30**	**0.00**	**12.76**	**25.41**	**0.00**	**10.19**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**3-2-2020**	**6-1-2020**	0.7185	0.7185
2	**6-2-2020**	**9-1-2020**	0.4989	0.4989
3	**9-2-2020**	**12-1-2020**	0.4954	0.4954
4	**12-2-2020**	**3-1-2021**	0.4612	0.4612
5	**3-2-2021**	**6-1-2021**	0.5377	0.5377
		Highest	0.7185	0.7185

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	0.5681	0.0160	1.3849	7.0000e-005		7.6300e-003	7.6300e-003		7.6300e-003	7.6300e-003	0.0000	2.2573	2.2573	2.1900e-003	0.0000	2.3120
Energy	9.6800e-003	0.0827	0.0352	5.3000e-004		6.6900e-003	6.6900e-003		6.6900e-003	6.6900e-003	0.0000	268.6304	268.6304	8.9700e-003	3.2300e-003	269.8180
Mobile	0.2921	1.5142	4.0643	0.0141	1.1296	0.0120	1.1416	0.3028	0.0112	0.3140	0.0000	1,296.0015	1,296.0015	0.0692	0.0000	1,297.7313
Waste						0.0000	0.0000		0.0000	0.0000	12.5124	0.0000	12.5124	0.7395	0.0000	30.9989
Water						0.0000	0.0000		0.0000	0.0000	2.7698	55.7053	58.4751	0.2868	7.1900e-003	67.7884
Total	**0.8699**	**1.6129**	**5.4844**	**0.0147**	**1.1296**	**0.0263**	**1.1560**	**0.3028**	**0.0255**	**0.3283**	**15.2822**	**1,622.5945**	**1,637.8767**	**1.1066**	**0.0104**	**1,668.6485**

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	0.5304	0.0160	1.3849	7.0000e-005		7.6300e-003	7.6300e-003		7.6300e-003	7.6300e-003	0.0000	2.2573	2.2573	2.1900e-003	0.0000	2.3120
Energy	9.6800e-003	0.0827	0.0352	5.3000e-004		6.6900e-003	6.6900e-003		6.6900e-003	6.6900e-003	0.0000	268.5469	268.5469	8.9700e-003	3.2300e-003	269.7342
Mobile	0.2628	1.3131	3.3455	0.0112	0.8894	9.6600e-003	0.8991	0.2384	9.0200e-003	0.2474	0.0000	1,034.7590	1,034.7590	0.0567	0.0000	1,036.1768
Waste						0.0000	0.0000		0.0000	0.0000	12.5124	0.0000	12.5124	0.7395	0.0000	30.9989
Water						0.0000	0.0000		0.0000	0.0000	2.2159	47.2725	49.4884	0.2295	5.7800e-003	56.9487
Total	**0.8028**	**1.4118**	**4.7656**	**0.0118**	**0.8894**	**0.0240**	**0.9134**	**0.2384**	**0.0233**	**0.2618**	**14.7282**	**1,352.8357**	**1,367.5639**	**1.0369**	**9.0100e-003**	**1,396.1705**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**7.71**	**12.47**	**13.11**	**19.39**	**21.27**	**8.89**	**20.99**	**21.26**	**8.58**	**20.28**	**3.62**	**16.63**	**16.50**	**6.30**	**13.53**	**16.33**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	24.0720
Total	**24.0720**

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	3/2/2020	3/27/2020	5	20	
2	Site Preparation	Site Preparation	3/28/2020	4/3/2020	5	5	
3	Grading	Grading	4/4/2020	4/15/2020	5	8	
4	Building Construction	Building Construction	4/16/2020	3/3/2021	5	230	
5	Paving	Paving	3/4/2021	3/29/2021	5	18	
6	Architectural Coating	Architectural Coating	3/30/2021	4/22/2021	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 271,350; Residential Outdoor: 90,450; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Demolition	Excavators	3	6.00	158	0.38
Building Construction	Cranes	1	0.13	231	0.29
Building Construction	Forklifts	3	6.00	89	0.20
Grading	Excavators	1	6.00	158	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	2	6.00	247	0.40
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	6.00	97	0.37
Building Construction	Generator Sets	1	6.00	84	0.74
Grading	Tractors/Loaders/Backhoes	3	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	6.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Paving	Paving Equipment	2	6.00	132	0.36
Site Preparation	Rubber Tired Dozers	3	6.00	247	0.40
Building Construction	Welders	1	6.00	46	0.45

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
Architectural Coating	1	19.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	96.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	197.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0214	0.0000	0.0214	3.2300e-003	0.0000	3.2300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0248	0.2490	0.1632	2.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	25.4990	25.4990	7.2000e-003	0.0000	25.6789
Total	**0.0248**	**0.2490**	**0.1632**	**2.9000e-004**	**0.0214**	**0.0124**	**0.0338**	**3.2300e-003**	**0.0116**	**0.0148**	**0.0000**	**25.4990**	**25.4990**	**7.2000e-003**	**0.0000**	**25.6789**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.7000e-004	0.0293	6.4500e-003	8.0000e-005	1.6900e-003	9.0000e-005	1.7800e-003	4.6000e-004	9.0000e-005	5.5000e-004	0.0000	7.5922	7.5922	5.3000e-004	0.0000	7.6054
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	6.9000e-004	5.6000e-004	6.1700e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.5320	1.5320	5.0000e-005	0.0000	1.5332
Total	**1.5600e-003**	**0.0298**	**0.0126**	**1.0000e-004**	**3.3300e-003**	**1.0000e-004**	**3.4400e-003**	**9.0000e-004**	**1.0000e-004**	**1.0000e-003**	**0.0000**	**9.1242**	**9.1242**	**5.8000e-004**	**0.0000**	**9.1387**

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					9.6100e-003	0.0000	9.6100e-003	1.4600e-003	0.0000	1.4600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0248	0.2490	0.1632	2.9000e-004		0.0124	0.0124		0.0116	0.0116	0.0000	25.4989	25.4989	7.2000e-003	0.0000	25.6789
Total	**0.0248**	**0.2490**	**0.1632**	**2.9000e-004**	**9.6100e-003**	**0.0124**	**0.0221**	**1.4600e-003**	**0.0116**	**0.0130**	**0.0000**	**25.4989**	**25.4989**	**7.2000e-003**	**0.0000**	**25.6789**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	8.7000e-004	0.0293	6.4500e-003	8.0000e-005	1.6900e-003	9.0000e-005	1.7800e-003	4.6000e-004	9.0000e-005	5.5000e-004	0.0000	7.5922	7.5922	5.3000e-004	0.0000	7.6054
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	6.9000e-004	5.6000e-004	6.1700e-003	2.0000e-005	1.6400e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.5320	1.5320	5.0000e-005	0.0000	1.5332
Total	**1.5600e-003**	**0.0298**	**0.0126**	**1.0000e-004**	**3.3300e-003**	**1.0000e-004**	**3.4400e-003**	**9.0000e-004**	**1.0000e-004**	**1.0000e-003**	**0.0000**	**9.1242**	**9.1242**	**5.8000e-004**	**0.0000**	**9.1387**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0339	0.0000	0.0339	0.0186	0.0000	0.0186	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.6400e-003	0.0795	0.0403	7.0000e-005		4.1200e-003	4.1200e-003		3.7900e-003	3.7900e-003	0.0000	6.2683	6.2683	2.0300e-003	0.0000	6.3189
Total	**7.6400e-003**	**0.0795**	**0.0403**	**7.0000e-005**	**0.0339**	**4.1200e-003**	**0.0380**	**0.0186**	**3.7900e-003**	**0.0224**	**0.0000**	**6.2683**	**6.2683**	**2.0300e-003**	**0.0000**	**6.3189**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.7000e-004	1.8500e-003	1.0000e-005	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4596	0.4596	1.0000e-005	0.0000	0.4600
Total	**2.1000e-004**	**1.7000e-004**	**1.8500e-003**	**1.0000e-005**	**4.9000e-004**	**0.0000**	**5.0000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4596**	**0.4596**	**1.0000e-005**	**0.0000**	**0.4600**

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					0.0152	0.0000	0.0152	8.3800e-003	0.0000	8.3800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.6400e-003	0.0795	0.0403	7.0000e-005		4.1200e-003	4.1200e-003		3.7900e-003	3.7900e-003	0.0000	6.2682	6.2682	2.0300e-003	0.0000	6.3189
Total	**7.6400e-003**	**0.0795**	**0.0403**	**7.0000e-005**	**0.0152**	**4.1200e-003**	**0.0194**	**8.3800e-003**	**3.7900e-003**	**0.0122**	**0.0000**	**6.2682**	**6.2682**	**2.0300e-003**	**0.0000**	**6.3189**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.7000e-004	1.8500e-003	1.0000e-005	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4596	0.4596	1.0000e-005	0.0000	0.4600
Total	**2.1000e-004**	**1.7000e-004**	**1.8500e-003**	**1.0000e-005**	**4.9000e-004**	**0.0000**	**5.0000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4596**	**0.4596**	**1.0000e-005**	**0.0000**	**0.4600**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0202	0.0000	0.0202	0.0102	0.0000	0.0102	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2900e-003	0.0792	0.0482	9.0000e-005		3.8200e-003	3.8200e-003		3.5100e-003	3.5100e-003	0.0000	7.8176	7.8176	2.5300e-003	0.0000	7.8808
Total	**7.2900e-003**	**0.0792**	**0.0482**	**9.0000e-005**	**0.0202**	**3.8200e-003**	**0.0240**	**0.0102**	**3.5100e-003**	**0.0137**	**0.0000**	**7.8176**	**7.8176**	**2.5300e-003**	**0.0000**	**7.8808**

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.2000e-004	2.4700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6128	0.6128	2.0000e-005	0.0000	0.6133
Total	**2.8000e-004**	**2.2000e-004**	**2.4700e-003**	**1.0000e-005**	**6.6000e-004**	**1.0000e-005**	**6.6000e-004**	**1.7000e-004**	**1.0000e-005**	**1.8000e-004**	**0.0000**	**0.6128**	**0.6128**	**2.0000e-005**	**0.0000**	**0.6133**

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					9.0800e-003	0.0000	9.0800e-003	4.5700e-003	0.0000	4.5700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.2900e-003	0.0792	0.0482	9.0000e-005		3.8200e-003	3.8200e-003		3.5100e-003	3.5100e-003	0.0000	7.8176	7.8176	2.5300e-003	0.0000	7.8808
Total	**7.2900e-003**	**0.0792**	**0.0482**	**9.0000e-005**	**9.0800e-003**	**3.8200e-003**	**0.0129**	**4.5700e-003**	**3.5100e-003**	**8.0800e-003**	**0.0000**	**7.8176**	**7.8176**	**2.5300e-003**	**0.0000**	**7.8808**

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.2000e-004	2.4700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6128	0.6128	2.0000e-005	0.0000	0.6133
Total	**2.8000e-004**	**2.2000e-004**	**2.4700e-003**	**1.0000e-005**	**6.6000e-004**	**1.0000e-005**	**6.6000e-004**	**1.7000e-004**	**1.0000e-005**	**1.8000e-004**	**0.0000**	**0.6128**	**0.6128**	**2.0000e-005**	**0.0000**	**0.6133**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1264	1.0724	1.1089	1.6200e-003		0.0682	0.0682		0.0643	0.0643	0.0000	138.5126	138.5126	0.0320	0.0000	139.3116
Total	**0.1264**	**1.0724**	**1.1089**	**1.6200e-003**		**0.0682**	**0.0682**		**0.0643**	**0.0643**	**0.0000**	**138.5126**	**138.5126**	**0.0320**	**0.0000**	**139.3116**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.7200e-003	0.1411	0.0382	3.3000e-004	8.2000e-003	6.6000e-004	8.8600e-003	2.3700e-003	6.3000e-004	2.9900e-003	0.0000	32.3451	32.3451	2.0600e-003	0.0000	32.3965
Worker	0.0412	0.0332	0.3675	1.0100e-003	0.0978	8.3000e-004	0.0987	0.0260	7.7000e-004	0.0268	0.0000	91.1862	91.1862	2.8700e-003	0.0000	91.2580
Total	**0.0459**	**0.1743**	**0.4057**	**1.3400e-003**	**0.1060**	**1.4900e-003**	**0.1075**	**0.0284**	**1.4000e-003**	**0.0297**	**0.0000**	**123.5313**	**123.5313**	**4.9300e-003**	**0.0000**	**123.6545**

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	0.1264	1.0724	1.1089	1.6200e-003		0.0682	0.0682		0.0643	0.0643	0.0000	138.5124	138.5124	0.0320	0.0000	139.3114
Total	**0.1264**	**1.0724**	**1.1089**	**1.6200e-003**		**0.0682**	**0.0682**		**0.0643**	**0.0643**	**0.0000**	**138.5124**	**138.5124**	**0.0320**	**0.0000**	**139.3114**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.7200e-003	0.1411	0.0382	3.3000e-004	8.2000e-003	6.6000e-004	8.8600e-003	2.3700e-003	6.3000e-004	2.9900e-003	0.0000	32.3451	32.3451	2.0600e-003	0.0000	32.3965
Worker	0.0412	0.0332	0.3675	1.0100e-003	0.0978	8.3000e-004	0.0987	0.0260	7.7000e-004	0.0268	0.0000	91.1862	91.1862	2.8700e-003	0.0000	91.2580
Total	**0.0459**	**0.1743**	**0.4057**	**1.3400e-003**	**0.1060**	**1.4900e-003**	**0.1075**	**0.0284**	**1.4000e-003**	**0.0297**	**0.0000**	**123.5313**	**123.5313**	**4.9300e-003**	**0.0000**	**123.6545**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0267	0.2311	0.2596	3.8000e-004		0.0137	0.0137		0.0130	0.0130	0.0000	32.7723	32.7723	7.4600e-003	0.0000	32.9588
Total	**0.0267**	**0.2311**	**0.2596**	**3.8000e-004**		**0.0137**	**0.0137**		**0.0130**	**0.0130**	**0.0000**	**32.7723**	**32.7723**	**7.4600e-003**	**0.0000**	**32.9588**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.6000e-004	0.0304	8.2400e-003	8.0000e-005	1.9400e-003	6.0000e-005	2.0000e-003	5.6000e-004	6.0000e-005	6.2000e-004	0.0000	7.5921	7.5921	4.7000e-004	0.0000	7.6037
Worker	9.0900e-003	7.0700e-003	0.0799	2.3000e-004	0.0231	1.9000e-004	0.0233	6.1500e-003	1.8000e-004	6.3200e-003	0.0000	20.8859	20.8859	6.1000e-004	0.0000	20.9013
Total	**0.0101**	**0.0375**	**0.0881**	**3.1000e-004**	**0.0251**	**2.5000e-004**	**0.0253**	**6.7100e-003**	**2.4000e-004**	**6.9400e-003**	**0.0000**	**28.4780**	**28.4780**	**1.0800e-003**	**0.0000**	**28.5050**

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	0.0267	0.2311	0.2596	3.8000e-004		0.0137	0.0137		0.0130	0.0130	0.0000	32.7723	32.7723	7.4600e-003	0.0000	32.9587
Total	**0.0267**	**0.2311**	**0.2596**	**3.8000e-004**		**0.0137**	**0.0137**		**0.0130**	**0.0130**	**0.0000**	**32.7723**	**32.7723**	**7.4600e-003**	**0.0000**	**32.9587**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.6000e-004	0.0304	8.2400e-003	8.0000e-005	1.9400e-003	6.0000e-005	2.0000e-003	5.6000e-004	6.0000e-005	6.2000e-004	0.0000	7.5921	7.5921	4.7000e-004	0.0000	7.6037
Worker	9.0900e-003	7.0700e-003	0.0799	2.3000e-004	0.0231	1.9000e-004	0.0233	6.1500e-003	1.8000e-004	6.3200e-003	0.0000	20.8859	20.8859	6.1000e-004	0.0000	20.9013
Total	**0.0101**	**0.0375**	**0.0881**	**3.1000e-004**	**0.0251**	**2.5000e-004**	**0.0253**	**6.7100e-003**	**2.4000e-004**	**6.9400e-003**	**0.0000**	**28.4780**	**28.4780**	**1.0800e-003**	**0.0000**	**28.5050**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.8500e-003	0.0976	0.1103	1.7000e-004		5.2100e-003	5.2100e-003		4.8100e-003	4.8100e-003	0.0000	14.7336	14.7336	4.6300e-003	0.0000	14.8493
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.8500e-003**	**0.0976**	**0.1103**	**1.7000e-004**		**5.2100e-003**	**5.2100e-003**		**4.8100e-003**	**4.8100e-003**	**0.0000**	**14.7336**	**14.7336**	**4.6300e-003**	**0.0000**	**14.8493**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7000e-004	6.0000e-004	6.8100e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7801	1.7801	5.0000e-005	0.0000	1.7814
Total	**7.7000e-004**	**6.0000e-004**	**6.8100e-003**	**2.0000e-005**	**1.9700e-003**	**2.0000e-005**	**1.9900e-003**	**5.2000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.7801**	**1.7801**	**5.0000e-005**	**0.0000**	**1.7814**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.8500e-003	0.0976	0.1103	1.7000e-004		5.2100e-003	5.2100e-003		4.8100e-003	4.8100e-003	0.0000	14.7335	14.7335	4.6300e-003	0.0000	14.8493
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**9.8500e-003**	**0.0976**	**0.1103**	**1.7000e-004**		**5.2100e-003**	**5.2100e-003**		**4.8100e-003**	**4.8100e-003**	**0.0000**	**14.7335**	**14.7335**	**4.6300e-003**	**0.0000**	**14.8493**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7000e-004	6.0000e-004	6.8100e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7801	1.7801	5.0000e-005	0.0000	1.7814
Total	**7.7000e-004**	**6.0000e-004**	**6.8100e-003**	**2.0000e-005**	**1.9700e-003**	**2.0000e-005**	**1.9900e-003**	**5.2000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.7801**	**1.7801**	**5.0000e-005**	**0.0000**	**1.7814**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4192					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9700e-003	0.0137	0.0164	3.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	2.2979	2.2979	1.6000e-004	0.0000	2.3019
Total	**0.4212**	**0.0137**	**0.0164**	**3.0000e-005**		**8.5000e-004**	**8.5000e-004**		**8.5000e-004**	**8.5000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.6000e-004**	**0.0000**	**2.3019**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4000e-004	5.7000e-004	6.4700e-003	2.0000e-005	1.8700e-003	2.0000e-005	1.8900e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.6911	1.6911	5.0000e-005	0.0000	1.6923
Total	**7.4000e-004**	**5.7000e-004**	**6.4700e-003**	**2.0000e-005**	**1.8700e-003**	**2.0000e-005**	**1.8900e-003**	**5.0000e-004**	**1.0000e-005**	**5.1000e-004**	**0.0000**	**1.6911**	**1.6911**	**5.0000e-005**	**0.0000**	**1.6923**

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	0.4192					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9700e-003	0.0137	0.0164	3.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004	0.0000	2.2979	2.2979	1.6000e-004	0.0000	2.3019
Total	**0.4212**	**0.0137**	**0.0164**	**3.0000e-005**		**8.5000e-004**	**8.5000e-004**		**8.5000e-004**	**8.5000e-004**	**0.0000**	**2.2979**	**2.2979**	**1.6000e-004**	**0.0000**	**2.3019**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4000e-004	5.7000e-004	6.4700e-003	2.0000e-005	1.8700e-003	2.0000e-005	1.8900e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.6911	1.6911	5.0000e-005	0.0000	1.6923
Total	**7.4000e-004**	**5.7000e-004**	**6.4700e-003**	**2.0000e-005**	**1.8700e-003**	**2.0000e-005**	**1.8900e-003**	**5.0000e-004**	**1.0000e-005**	**5.1000e-004**	**0.0000**	**1.6911**	**1.6911**	**5.0000e-005**	**0.0000**	**1.6923**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Integrate Below Market Rate Housing

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2628	1.3131	3.3455	0.0112	0.8894	9.6600e-003	0.8991	0.2384	9.0200e-003	0.2474	0.0000	1,034.7590	1,034.7590	0.0567	0.0000	1,036.1768
Unmitigated	0.2921	1.5142	4.0643	0.0141	1.1296	0.0120	1.1416	0.3028	0.0112	0.3140	0.0000	1,296.0015	1,296.0015	0.0692	0.0000	1,297.7313

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	891.10	856.26	785.24	2,976,339	2,343,375
Total	891.10	856.26	785.24	2,976,339	2,343,375

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	172.7542	172.7542	7.1300e-003	1.4800e-003	173.3722
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	172.8377	172.8377	7.1400e-003	1.4800e-003	173.4561
NaturalGas Mitigated	9.6800e-003	0.0827	0.0352	5.3000e-004		6.6900e-003	6.6900e-003		6.6900e-003	6.6900e-003	0.0000	95.7927	95.7927	1.8400e-003	1.7600e-003	96.3619
NaturalGas Unmitigated	9.6800e-003	0.0827	0.0352	5.3000e-004		6.6900e-003	6.6900e-003		6.6900e-003	6.6900e-003	0.0000	95.7927	95.7927	1.8400e-003	1.7600e-003	96.3619

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.79509e+006	9.6800e-003	0.0827	0.0352	5.3000e-004		6.6900e-003	6.6900e-003		6.6900e-003	6.6900e-003	0.0000	95.7927	95.7927	1.8400e-003	1.7600e-003	96.3619
Total		**9.6800e-003**	**0.0827**	**0.0352**	**5.3000e-004**		**6.6900e-003**	**6.6900e-003**		**6.6900e-003**	**6.6900e-003**	**0.0000**	**95.7927**	**95.7927**	**1.8400e-003**	**1.7600e-003**	**96.3619**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.79509e+006	9.6800e-003	0.0827	0.0352	5.3000e-004		6.6900e-003	6.6900e-003		6.6900e-003	6.6900e-003	0.0000	95.7927	95.7927	1.8400e-003	1.7600e-003	96.3619
Total		**9.6800e-003**	**0.0827**	**0.0352**	**5.3000e-004**		**6.6900e-003**	**6.6900e-003**		**6.6900e-003**	**6.6900e-003**	**0.0000**	**95.7927**	**95.7927**	**1.8400e-003**	**1.7600e-003**	**96.3619**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	542455	172.8377	7.1400e-003	1.4800e-003	173.4561
Total		**172.8377**	**7.1400e-003**	**1.4800e-003**	**173.4561**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	542193	172.7542	7.1300e-003	1.4800e-003	173.3722
Total		**172.7542**	**7.1300e-003**	**1.4800e-003**	**173.3722**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.5304	0.0160	1.3849	7.0000e-005		7.6300e-003	7.6300e-003		7.6300e-003	7.6300e-003	0.0000	2.2573	2.2573	2.1900e-003	0.0000	2.3120
Unmitigated	0.5681	0.0160	1.3849	7.0000e-005		7.6300e-003	7.6300e-003		7.6300e-003	7.6300e-003	0.0000	2.2573	2.2573	2.1900e-003	0.0000	2.3120

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0419					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4842					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0420	0.0160	1.3849	7.0000e-005		7.6300e-003	7.6300e-003		7.6300e-003	7.6300e-003	0.0000	2.2573	2.2573	2.1900e-003	0.0000	2.3120
Total	**0.5681**	**0.0160**	**1.3849**	**7.0000e-005**		**7.6300e-003**	**7.6300e-003**		**7.6300e-003**	**7.6300e-003**	**0.0000**	**2.2573**	**2.2573**	**2.1900e-003**	**0.0000**	**2.3120**

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	4.1900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4842					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0420	0.0160	1.3849	7.0000e-005		7.6300e-003	7.6300e-003		7.6300e-003	7.6300e-003	0.0000	2.2573	2.2573	2.1900e-003	0.0000	2.3120
Total	**0.5304**	**0.0160**	**1.3849**	**7.0000e-005**		**7.6300e-003**	**7.6300e-003**		**7.6300e-003**	**7.6300e-003**	**0.0000**	**2.2573**	**2.2573**	**2.1900e-003**	**0.0000**	**2.3120**

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	49.4884	0.2295	5.7800e-003	56.9487
Unmitigated	58.4751	0.2868	7.1900e-003	67.7884

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	8.73064 / 5.5041	58.4751	0.2868	7.1900e-003	67.7884
Total		**58.4751**	**0.2868**	**7.1900e-003**	**67.7884**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	6.98451 / 5.16835	49.4884	0.2295	5.7800e-003	56.9487
Total		**49.4884**	**0.2295**	**5.7800e-003**	**56.9487**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	12.5124	0.7395	0.0000	30.9989
Unmitigated	12.5124	0.7395	0.0000	30.9989

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	61.64	12.5124	0.7395	0.0000	30.9989
Total		**12.5124**	**0.7395**	**0.0000**	**30.9989**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	61.64	12.5124	0.7395	0.0000	30.9989
Total		**12.5124**	**0.7395**	**0.0000**	**30.9989**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	24.0720	0.0000	0.0000	24.0720

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	34	24.0720	0.0000	0.0000	24.0720
Total		**24.0720**	**0.0000**	**0.0000**	**24.0720**

Artesia HO-O Zone Implementation - Area A

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	134.00	Dwelling Unit	4.45	134,000.00	383

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction hypothesized to start in March 2020 for model purposes.
Project modeled to be operational in 2021.
Project assumes demolition of 57 existing units (43,399 SF) & construction of new units at 30 du/acre.
Demo & construction assumptions for modeling purposes only.

Land Use - Combined Group A lot area less 2 developed parcels, each >0.5 acre, recently developed to 20+ du/acre.
Dimensions from L.A. County Assessor.

Construction Phase - Default construction phases used.

Off-road Equipment - Defaults used.

Off-road Equipment - Estimated real-time use: equipment not expected to be running continuously for 8 hrs/day.

Off-road Equipment - Estimated real-time use: equipment not expected to be running continuously for 8 hrs/day.

Off-road Equipment - Estimated real-time use: equipment not expected to be running continuously for 8 hrs/day.

Grading - Assumes no cut/fill. Terrain is flat.

Off-road Equipment - Cranes anticipated to be used for approx 30 8-hr days/230-day construction period.
30 days/230 days = 0.13 = represents fractional crane use over 230 day period.
All other defaults used.

Off-road Equipment - Defaults used.

Demolition - Existing building square footage obtained from LA Co. Assessor.

Trips and VMT - Defaults used.

On-road Fugitive Dust - Defaults usd.

Architectural Coating - Defaults used.

Woodstoves - Assume no fireplaces or woodstoves included.

Area Coating - Defaults used.

Energy Use - Defaults used.

Water And Wastewater - Defaults used.

Solid Waste - Defaults used.

Land Use Change - No natural vegetation changes - area previously developed, urban.

Sequestration - Assumes 1/4 tree per unit.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Affordable units required in HO-O zone overlay for maximum density eligibility.

Area Mitigation - Zero-VOC coatings indicated to be 5 g/l or less - used Dunn-Edwards "Everest" zero-VOC paint as example.

Energy Mitigation - Required PV installation per 2018 Title 24 Multifamily Residential on-site solar provision.
See California Energy Commission, Residential Compliance Manual, December 2018, p. 7-1 for calculating PV system size.

Water Mitigation - Defaults accepted; assume Ti. 24 compliance for low-flow fixtures.

Artesia HO-O Zone Implementation - Area A - Los Angeles-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	5
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	5
tblFireplaces	NumberGas	113.90	0.00
tblFireplaces	NumberNoFireplace	13.40	0.00
tblFireplaces	NumberWood	6.70	0.00
tblGrading	AcresOfGrading	3.00	4.00
tblLandUse	LotAcreage	3.53	4.45
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	0.13
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblSequestration	NumberOfNewTrees	0.00	34.00
tblWoodstoves	NumberCatalytic	6.70	0.00
tblWoodstoves	NumberNoncatalytic	6.70	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	3.1402	31.8719	17.5993	0.0387	13.7509	1.6497	15.4006	7.5014	1.5178	9.0191	0.0000	3,830.1900	3,830.1900	0.9006	0.0000	3,851.6000
2021	46.8821	12.1458	16.0200	0.0319	1.1627	0.6359	1.7985	0.3104	0.5996	0.9100	0.0000	3,120.1102	3,120.1102	0.5737	0.0000	3,130.8255
Maximum	**46.8821**	**31.8719**	**17.5993**	**0.0387**	**13.7509**	**1.6497**	**15.4006**	**7.5014**	**1.5178**	**9.0191**	**0.0000**	**3,830.1900**	**3,830.1900**	**0.9006**	**0.0000**	**3,851.6000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	3.1402	31.8719	17.5993	0.0387	6.2986	1.6497	7.9483	3.4050	1.5178	4.9227	0.0000	3,830.1900	3,830.1900	0.9006	0.0000	3,851.6000
2021	46.8821	12.1458	16.0200	0.0319	1.1627	0.6359	1.7985	0.3104	0.5996	0.9100	0.0000	3,120.1102	3,120.1102	0.5737	0.0000	3,130.8255
Maximum	**46.8821**	**31.8719**	**17.5993**	**0.0387**	**6.2986**	**1.6497**	**7.9483**	**3.4050**	**1.5178**	**4.9227**	**0.0000**	**3,830.1900**	**3,830.1900**	**0.9006**	**0.0000**	**3,851.6000**

Artesia HO-O Zone Implementation - Area A - Los Angeles-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	49.97	0.00	43.33	52.44	0.00	41.26	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.2186	0.1279	11.0792	5.8000e-004		0.0611	0.0611		0.0611	0.0611	0.0000	19.9060	19.9060	0.0193	0.0000	20.3883
Energy	0.0530	0.4532	0.1929	2.8900e-003		0.0366	0.0366		0.0366	0.0366		578.5936	578.5936	0.0111	0.0106	582.0319
Mobile	1.7287	8.1398	23.7310	0.0819	6.4750	0.0674	6.5424	1.7329	0.0629	1.7958		8,322.3781	8,322.3781	0.4321		8,333.1816
Total	**5.0003**	**8.7209**	**35.0031**	**0.0853**	**6.4750**	**0.1651**	**6.6401**	**1.7329**	**0.1607**	**1.8935**	**0.0000**	**8,920.8778**	**8,920.8778**	**0.4625**	**0.0106**	**8,935.6018**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.0119	0.1279	11.0792	5.8000e-004		0.0611	0.0611		0.0611	0.0611	0.0000	19.9060	19.9060	0.0193	0.0000	20.3883
Energy	0.0530	0.4532	0.1929	2.8900e-003		0.0366	0.0366		0.0366	0.0366		578.5936	578.5936	0.0111	0.0106	582.0319
Mobile	1.5610	7.0937	19.3933	0.0653	5.0980	0.0542	5.1522	1.3644	0.0506	1.4150		6,645.2379	6,645.2379	0.3532		6,654.0668
Total	**4.6259**	**7.6748**	**30.6653**	**0.0688**	**5.0980**	**0.1519**	**5.2499**	**1.3644**	**0.1483**	**1.5127**	**0.0000**	**7,243.7375**	**7,243.7375**	**0.3835**	**0.0106**	**7,256.4870**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**7.49**	**12.00**	**12.39**	**19.36**	**21.27**	**7.99**	**20.94**	**21.27**	**7.67**	**20.11**	**0.00**	**18.80**	**18.80**	**17.08**	**0.00**	**18.79**

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	3/2/2020	3/27/2020	5	20	
2	Site Preparation	Site Preparation	3/28/2020	4/3/2020	5	5	
3	Grading	Grading	4/4/2020	4/15/2020	5	8	
4	Building Construction	Building Construction	4/16/2020	3/3/2021	5	230	
5	Paving	Paving	3/4/2021	3/29/2021	5	18	
6	Architectural Coating	Architectural Coating	3/30/2021	4/22/2021	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 271,350; Residential Outdoor: 90,450; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Artesia HO-O Zone Implementation - Area A - Los Angeles-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Demolition	Excavators	3	6.00	158	0.38
Building Construction	Cranes	1	0.13	231	0.29
Building Construction	Forklifts	3	6.00	89	0.20
Grading	Excavators	1	6.00	158	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	2	6.00	247	0.40
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	6.00	97	0.37
Building Construction	Generator Sets	1	6.00	84	0.74
Grading	Tractors/Loaders/Backhoes	3	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	6.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Paving	Paving Equipment	2	6.00	132	0.36
Site Preparation	Rubber Tired Dozers	3	6.00	247	0.40
Building Construction	Welders	1	6.00	46	0.45

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
Architectural Coating	1	19.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	96.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	197.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.1360	0.0000	2.1360	0.3234	0.0000	0.3234			0.0000			0.0000
Off-Road	2.4841	24.9008	16.3149	0.0291		1.2440	1.2440		1.1564	1.1564		2,810.7787	2,810.7787	0.7935		2,830.6152
Total	**2.4841**	**24.9008**	**16.3149**	**0.0291**	**2.1360**	**1.2440**	**3.3800**	**0.3234**	**1.1564**	**1.4798**		**2,810.7787**	**2,810.7787**	**0.7935**		**2,830.6152**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0860	2.8323	0.6276	7.7800e-003	0.1722	9.0400e-003	0.1813	0.0472	8.6500e-003	0.0559		842.9943	842.9943	0.0574		844.4288
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	0.0690	0.0491	0.6568	1.7700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		176.4169	176.4169	5.5600e-003		176.5560
Total	**0.1551**	**2.8814**	**1.2844**	**9.5500e-003**	**0.3399**	**0.0104**	**0.3503**	**0.0917**	**9.9400e-003**	**0.1016**		**1,019.4113**	**1,019.4113**	**0.0629**		**1,020.9848**

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					0.9612	0.0000	0.9612	0.1455	0.0000	0.1455			0.0000			0.0000
Off-Road	2.4841	24.9008	16.3149	0.0291		1.2440	1.2440		1.1564	1.1564	0.0000	2,810.7787	2,810.7787	0.7935		2,830.6152
Total	**2.4841**	**24.9008**	**16.3149**	**0.0291**	**0.9612**	**1.2440**	**2.2052**	**0.1455**	**1.1564**	**1.3019**	**0.0000**	**2,810.7787**	**2,810.7787**	**0.7935**		**2,830.6152**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0860	2.8323	0.6276	7.7800e-003	0.1722	9.0400e-003	0.1813	0.0472	8.6500e-003	0.0559		842.9943	842.9943	0.0574		844.4288
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	0.0690	0.0491	0.6568	1.7700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		176.4169	176.4169	5.5600e-003		176.5560
Total	**0.1551**	**2.8814**	**1.2844**	**9.5500e-003**	**0.3399**	**0.0104**	**0.3503**	**0.0917**	**9.9400e-003**	**0.1016**		**1,019.4113**	**1,019.4113**	**0.0629**		**1,020.9848**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					13.5497	0.0000	13.5497	7.4480	0.0000	7.4480			0.0000			0.0000
Off-Road	3.0574	31.8130	16.1352	0.0285		1.6481	1.6481		1.5162	1.5162		2,763.8262	2,763.8262	0.8939		2,786.1731
Total	**3.0574**	**31.8130**	**16.1352**	**0.0285**	**13.5497**	**1.6481**	**15.1978**	**7.4480**	**1.5162**	**8.9642**		**2,763.8262**	**2,763.8262**	**0.8939**		**2,786.1731**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0828	0.0589	0.7881	2.1300e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		211.7003	211.7003	6.6700e-003		211.8672
Total	**0.0828**	**0.0589**	**0.7881**	**2.1300e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**211.7003**	**211.7003**	**6.6700e-003**		**211.8672**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0974	0.0000	6.0974	3.3516	0.0000	3.3516			0.0000			0.0000
Off-Road	3.0574	31.8130	16.1352	0.0285		1.6481	1.6481		1.5162	1.5162	0.0000	2,763.8262	2,763.8262	0.8939		2,786.1731
Total	**3.0574**	**31.8130**	**16.1352**	**0.0285**	**6.0974**	**1.6481**	**7.7454**	**3.3516**	**1.5162**	**4.8678**	**0.0000**	**2,763.8262**	**2,763.8262**	**0.8939**		**2,786.1731**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0828	0.0589	0.7881	2.1300e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		211.7003	211.7003	6.6700e-003		211.8672
Total	**0.0828**	**0.0589**	**0.7881**	**2.1300e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**211.7003**	**211.7003**	**6.6700e-003**		**211.8672**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.0468	0.0000	5.0468	2.5399	0.0000	2.5399			0.0000			0.0000
Off-Road	1.8216	19.7894	12.0397	0.0222		0.9551	0.9551		0.8787	0.8787		2,154.3638	2,154.3638	0.6968		2,171.7830
Total	**1.8216**	**19.7894**	**12.0397**	**0.0222**	**5.0468**	**0.9551**	**6.0019**	**2.5399**	**0.8787**	**3.4186**		**2,154.3638**	**2,154.3638**	**0.6968**		**2,171.7830**

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0690	0.0491	0.6568	1.7700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		176.4169	176.4169	5.5600e-003		176.5560
Total	**0.0690**	**0.0491**	**0.6568**	**1.7700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**176.4169**	**176.4169**	**5.5600e-003**		**176.5560**

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					2.2711	0.0000	2.2711	1.1430	0.0000	1.1430			0.0000			0.0000
Off-Road	1.8216	19.7894	12.0397	0.0222		0.9551	0.9551		0.8787	0.8787	0.0000	2,154.3638	2,154.3638	0.6968		2,171.7830
Total	**1.8216**	**19.7894**	**12.0397**	**0.0222**	**2.2711**	**0.9551**	**3.2261**	**1.1430**	**0.8787**	**2.0216**	**0.0000**	**2,154.3638**	**2,154.3638**	**0.6968**		**2,171.7830**

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0690	0.0491	0.6568	1.7700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		176.4169	176.4169	5.5600e-003		176.5560
Total	**0.0690**	**0.0491**	**0.6568**	**1.7700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**176.4169**	**176.4169**	**5.5600e-003**		**176.5560**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3586	11.5310	11.9237	0.0174		0.7330	0.7330		0.6913	0.6913		1,641.7631	1,641.7631	0.3788		1,651.2340
Total	**1.3586**	**11.5310**	**11.9237**	**0.0174**		**0.7330**	**0.7330**		**0.6913**	**0.6913**		**1,641.7631**	**1,641.7631**	**0.3788**		**1,651.2340**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0498	1.4892	0.3902	3.6300e-003	0.0896	7.0100e-003	0.0966	0.0258	6.7000e-003	0.0325		387.8346	387.8346	0.0237		388.4263
Worker	0.4418	0.3143	4.2033	0.0113	1.0731	8.9700e-003	1.0820	0.2846	8.2600e-003	0.2928		1,129.0684	1,129.0684	0.0356		1,129.9583
Total	**0.4916**	**1.8035**	**4.5935**	**0.0150**	**1.1627**	**0.0160**	**1.1787**	**0.3104**	**0.0150**	**0.3254**		**1,516.9029**	**1,516.9029**	**0.0593**		**1,518.3845**

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	1.3586	11.5310	11.9237	0.0174		0.7330	0.7330		0.6913	0.6913	0.0000	1,641.7631	1,641.7631	0.3788		1,651.2340
Total	**1.3586**	**11.5310**	**11.9237**	**0.0174**		**0.7330**	**0.7330**		**0.6913**	**0.6913**	**0.0000**	**1,641.7631**	**1,641.7631**	**0.3788**		**1,651.2340**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0498	1.4892	0.3902	3.6300e-003	0.0896	7.0100e-003	0.0966	0.0258	6.7000e-003	0.0325		387.8346	387.8346	0.0237		388.4263
Worker	0.4418	0.3143	4.2033	0.0113	1.0731	8.9700e-003	1.0820	0.2846	8.2600e-003	0.2928		1,129.0684	1,129.0684	0.0356		1,129.9583
Total	**0.4916**	**1.8035**	**4.5935**	**0.0150**	**1.1627**	**0.0160**	**1.1787**	**0.3104**	**0.0150**	**0.3254**		**1,516.9029**	**1,516.9029**	**0.0593**		**1,518.3845**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2141	10.5037	11.7981	0.0174		0.6244	0.6244		0.5890	0.5890		1,642.0583	1,642.0583	0.3737		1,651.4015
Total	**1.2141**	**10.5037**	**11.7981**	**0.0174**		**0.6244**	**0.6244**		**0.5890**	**0.5890**		**1,642.0583**	**1,642.0583**	**0.3737**		**1,651.4015**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0426	1.3593	0.3553	3.6000e-003	0.0896	2.7800e-003	0.0924	0.0258	2.6600e-003	0.0285		384.8329	384.8329	0.0227		385.3997
Worker	0.4115	0.2829	3.8666	0.0110	1.0731	8.6700e-003	1.0817	0.2846	7.9900e-003	0.2926		1,093.2191	1,093.2191	0.0322		1,094.0244
Total	**0.4541**	**1.6421**	**4.2220**	**0.0146**	**1.1627**	**0.0115**	**1.1741**	**0.3104**	**0.0107**	**0.3210**		**1,478.0519**	**1,478.0519**	**0.0549**		**1,479.4240**

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	1.2141	10.5037	11.7981	0.0174		0.6244	0.6244		0.5890	0.5890	0.0000	1,642.0583	1,642.0583	0.3737		1,651.4015
Total	**1.2141**	**10.5037**	**11.7981**	**0.0174**		**0.6244**	**0.6244**		**0.5890**	**0.5890**	**0.0000**	**1,642.0583**	**1,642.0583**	**0.3737**		**1,651.4015**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0426	1.3593	0.3553	3.6000e-003	0.0896	2.7800e-003	0.0924	0.0258	2.6600e-003	0.0285		384.8329	384.8329	0.0227		385.3997
Worker	0.4115	0.2829	3.8666	0.0110	1.0731	8.6700e-003	1.0817	0.2846	7.9900e-003	0.2926		1,093.2191	1,093.2191	0.0322		1,094.0244
Total	**0.4541**	**1.6421**	**4.2220**	**0.0146**	**1.1627**	**0.0115**	**1.1741**	**0.3104**	**0.0107**	**0.3210**		**1,478.0519**	**1,478.0519**	**0.0549**		**1,479.4240**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342		1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0940**	**10.8399**	**12.2603**	**0.0189**		**0.5788**	**0.5788**		**0.5342**	**0.5342**		**1,804.5523**	**1,804.5523**	**0.5670**		**1,818.7270**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0857	0.0589	0.8056	2.2900e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		227.7540	227.7540	6.7100e-003		227.9217
Total	**0.0857**	**0.0589**	**0.8056**	**2.2900e-003**	**0.2236**	**1.8100e-003**	**0.2254**	**0.0593**	**1.6600e-003**	**0.0610**		**227.7540**	**227.7540**	**6.7100e-003**		**227.9217**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342	0.0000	1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0940**	**10.8399**	**12.2603**	**0.0189**		**0.5788**	**0.5788**		**0.5342**	**0.5342**	**0.0000**	**1,804.5523**	**1,804.5523**	**0.5670**		**1,818.7270**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0857	0.0589	0.8056	2.2900e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		227.7540	227.7540	6.7100e-003		227.9217
Total	**0.0857**	**0.0589**	**0.8056**	**2.2900e-003**	**0.2236**	**1.8100e-003**	**0.2254**	**0.0593**	**1.6600e-003**	**0.0610**		**227.7540**	**227.7540**	**6.7100e-003**		**227.9217**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	46.5818					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**46.8007**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0814	0.0560	0.7653	2.1700e-003	0.2124	1.7200e-003	0.2141	0.0563	1.5800e-003	0.0579		216.3663	216.3663	6.3800e-003		216.5257
Total	**0.0814**	**0.0560**	**0.7653**	**2.1700e-003**	**0.2124**	**1.7200e-003**	**0.2141**	**0.0563**	**1.5800e-003**	**0.0579**		**216.3663**	**216.3663**	**6.3800e-003**		**216.5257**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	46.5818					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**46.8007**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0814	0.0560	0.7653	2.1700e-003	0.2124	1.7200e-003	0.2141	0.0563	1.5800e-003	0.0579		216.3663	216.3663	6.3800e-003		216.5257
Total	**0.0814**	**0.0560**	**0.7653**	**2.1700e-003**	**0.2124**	**1.7200e-003**	**0.2141**	**0.0563**	**1.5800e-003**	**0.0579**		**216.3663**	**216.3663**	**6.3800e-003**		**216.5257**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Integrate Below Market Rate Housing

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5610	7.0937	19.3933	0.0653	5.0980	0.0542	5.1522	1.3644	0.0506	1.4150		6,645.2379	6,645.2379	0.3532		6,654.0668
Unmitigated	1.7287	8.1398	23.7310	0.0819	6.4750	0.0674	6.5424	1.7329	0.0629	1.7958		8,322.3781	8,322.3781	0.4321		8,333.1816

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	891.10	856.26	785.24	2,976,339	2,343,375
Total	891.10	856.26	785.24	2,976,339	2,343,375

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0530	0.4532	0.1929	2.8900e-003		0.0366	0.0366		0.0366	0.0366		578.5936	578.5936	0.0111	0.0106	582.0319
NaturalGas Unmitigated	0.0530	0.4532	0.1929	2.8900e-003		0.0366	0.0366		0.0366	0.0366		578.5936	578.5936	0.0111	0.0106	582.0319

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	4918.05	0.0530	0.4532	0.1929	2.8900e-003		0.0366	0.0366		0.0366	0.0366		578.5936	578.5936	0.0111	0.0106	582.0319
Total		**0.0530**	**0.4532**	**0.1929**	**2.8900e-003**		**0.0366**	**0.0366**		**0.0366**	**0.0366**		**578.5936**	**578.5936**	**0.0111**	**0.0106**	**582.0319**

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 Mid Rise	4.91805	0.0530	0.4532	0.1929	2.8900e-003		0.0366	0.0366		0.0366	0.0366		578.5936	578.5936	0.0111	0.0106	582.0319
Total		**0.0530**	**0.4532**	**0.1929**	**2.8900e-003**		**0.0366**	**0.0366**		**0.0366**	**0.0366**		**578.5936**	**578.5936**	**0.0111**	**0.0106**	**582.0319**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.0119	0.1279	11.0792	5.8000e-004		0.0611	0.0611		0.0611	0.0611	0.0000	19.9060	19.9060	0.0193	0.0000	20.3883
Unmitigated	3.2186	0.1279	11.0792	5.8000e-004		0.0611	0.0611		0.0611	0.0611	0.0000	19.9060	19.9060	0.0193	0.0000	20.3883

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	0.2297					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6532					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3357	0.1279	11.0792	5.8000e-004		0.0611	0.0611		0.0611	0.0611		19.9060	19.9060	0.0193		20.3883
Total	**3.2186**	**0.1279**	**11.0792**	**5.8000e-004**		**0.0611**	**0.0611**		**0.0611**	**0.0611**	**0.0000**	**19.9060**	**19.9060**	**0.0193**	**0.0000**	**20.3883**

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	0.0230					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6532					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3357	0.1279	11.0792	5.8000e-004		0.0611	0.0611		0.0611	0.0611		19.9060	19.9060	0.0193		20.3883
Total	**3.0119**	**0.1279**	**11.0792**	**5.8000e-004**		**0.0611**	**0.0611**		**0.0611**	**0.0611**	**0.0000**	**19.9060**	**19.9060**	**0.0193**	**0.0000**	**20.3883**

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

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Artesia HO-O Zone Implementation - Area A

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	134.00	Dwelling Unit	4.45	134,000.00	383

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction hypothesized to start in March 2020 for model purposes.
Project modeled to be operational in 2021.
Project assumes demolition of 57 existing units (43,399 SF) & construction of new units at 30 du/acre.
Demo & construction assumptions for modeling purposes only.

Land Use - Combined Group A lot area less 2 developed parcels, each >0.5 acre, recently developed to 20+ du/acre.
Dimensions from L.A. County Assessor.

Construction Phase - Default construction phases used.

Off-road Equipment - Defaults used.

Off-road Equipment - Estimated real-time use: equipment not expected to be running continuously for 8 hrs/day.

Off-road Equipment - Estimated real-time use: equipment not expected to be running continuously for 8 hrs/day.

Off-road Equipment - Estimated real-time use: equipment not expected to be running continuously for 8 hrs/day.

Grading - Assumes no cut/fill. Terrain is flat.

Off-road Equipment - Cranes anticipated to be used for approx 30 8-hr days/230-day construction period.
30 days/230 days = 0.13 = represents fractional crane use over 230 day period.
All other defaults used.

Off-road Equipment - Defaults used.

Demolition - Existing building square footage obtained from LA Co. Assessor.

Trips and VMT - Defaults used.

On-road Fugitive Dust - Defaults usd.

Architectural Coating - Defaults used.

Woodstoves - Assume no fireplaces or woodstoves included.

Area Coating - Defaults used.

Energy Use - Defaults used.

Water And Wastewater - Defaults used.

Solid Waste - Defaults used.

Land Use Change - No natural vegetation changes - area previously developed, urban.

Sequestration - Assumes 1/4 tree per unit.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Affordable units required in HO-O zone overlay for maximum density eligibility.

Area Mitigation - Zero-VOC coatings indicated to be 5 g/l or less - used Dunn-Edwards "Everest" zero-VOC paint as example.

Energy Mitigation - Required PV installation per 2018 Title 24 Multifamily Residential on-site solar provision.
See California Energy Commission, Residential Compliance Manual, December 2018, p. 7-1 for calculating PV system size.

Water Mitigation - Defaults accepted; assume Ti. 24 compliance for low-flow fixtures.

Artesia HO-O Zone Implementation - Area A - Los Angeles-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	5
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	5
tblFireplaces	NumberGas	113.90	0.00
tblFireplaces	NumberNoFireplace	13.40	0.00
tblFireplaces	NumberWood	6.70	0.00
tblGrading	AcresOfGrading	3.00	4.00
tblLandUse	LotAcreage	3.53	4.45
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	0.13
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblSequestration	NumberOfNewTrees	0.00	34.00
tblWoodstoves	NumberCatalytic	6.70	0.00
tblWoodstoves	NumberNoncatalytic	6.70	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	3.1493	31.8782	17.5834	0.0384	13.7509	1.6497	15.4006	7.5014	1.5178	9.0191	0.0000	3,805.3694	3,805.3694	0.9002	0.0000	3,826.8235
2021	46.8913	12.1732	15.7264	0.0312	1.1627	0.6359	1.7986	0.3104	0.5997	0.9101	0.0000	3,045.7031	3,045.7031	0.5733	0.0000	3,056.4076
Maximum	**46.8913**	**31.8782**	**17.5834**	**0.0384**	**13.7509**	**1.6497**	**15.4006**	**7.5014**	**1.5178**	**9.0191**	**0.0000**	**3,805.3694**	**3,805.3694**	**0.9002**	**0.0000**	**3,826.8235**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	3.1493	31.8782	17.5834	0.0384	6.2986	1.6497	7.9483	3.4050	1.5178	4.9227	0.0000	3,805.3694	3,805.3694	0.9002	0.0000	3,826.8235
2021	46.8913	12.1732	15.7264	0.0312	1.1627	0.6359	1.7986	0.3104	0.5997	0.9101	0.0000	3,045.7031	3,045.7031	0.5733	0.0000	3,056.4076
Maximum	**46.8913**	**31.8782**	**17.5834**	**0.0384**	**6.2986**	**1.6497**	**7.9483**	**3.4050**	**1.5178**	**4.9227**	**0.0000**	**3,805.3694**	**3,805.3694**	**0.9002**	**0.0000**	**3,826.8235**

Artesia HO-O Zone Implementation - Area A - Los Angeles-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**49.97**	**0.00**	**43.33**	**52.44**	**0.00**	**41.26**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.2186	0.1279	11.0792	5.8000e-004		0.0611	0.0611		0.0611	0.0611	0.0000	19.9060	19.9060	0.0193	0.0000	20.3883
Energy	0.0530	0.4532	0.1929	2.8900e-003		0.0366	0.0366		0.0366	0.0366		578.5936	578.5936	0.0111	0.0106	582.0319
Mobile	1.6798	8.3546	22.5186	0.0779	6.4750	0.0678	6.5428	1.7329	0.0633	1.7962		7,919.6362	7,919.6362	0.4302		7,930.3914
Total	**4.9514**	**8.9357**	**33.7906**	**0.0813**	**6.4750**	**0.1655**	**6.6405**	**1.7329**	**0.1610**	**1.8939**	**0.0000**	**8,518.1359**	**8,518.1359**	**0.4606**	**0.0106**	**8,532.8116**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.0119	0.1279	11.0792	5.8000e-004		0.0611	0.0611		0.0611	0.0611	0.0000	19.9060	19.9060	0.0193	0.0000	20.3883
Energy	0.0530	0.4532	0.1929	2.8900e-003		0.0366	0.0366		0.0366	0.0366		578.5936	578.5936	0.0111	0.0106	582.0319
Mobile	1.5162	7.2469	18.5834	0.0621	5.0980	0.0546	5.1526	1.3644	0.0509	1.4153		6,319.6228	6,319.6228	0.3533		6,328.4559
Total	**4.5811**	**7.8280**	**29.8555**	**0.0656**	**5.0980**	**0.1523**	**5.2503**	**1.3644**	**0.1487**	**1.5130**	**0.0000**	**6,918.1224**	**6,918.1224**	**0.3837**	**0.0106**	**6,930.8762**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**7.48**	**12.40**	**11.65**	**19.36**	**21.27**	**7.98**	**20.94**	**21.27**	**7.66**	**20.11**	**0.00**	**18.78**	**18.78**	**16.69**	**0.00**	**18.77**

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	3/2/2020	3/27/2020	5	20	
2	Site Preparation	Site Preparation	3/28/2020	4/3/2020	5	5	
3	Grading	Grading	4/4/2020	4/15/2020	5	8	
4	Building Construction	Building Construction	4/16/2020	3/3/2021	5	230	
5	Paving	Paving	3/4/2021	3/29/2021	5	18	
6	Architectural Coating	Architectural Coating	3/30/2021	4/22/2021	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 271,350; Residential Outdoor: 90,450; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Artesia HO-O Zone Implementation - Area A - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Demolition	Excavators	3	6.00	158	0.38
Building Construction	Cranes	1	0.13	231	0.29
Building Construction	Forklifts	3	6.00	89	0.20
Grading	Excavators	1	6.00	158	0.38
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	6.00	80	0.38
Demolition	Rubber Tired Dozers	2	6.00	247	0.40
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	6.00	97	0.37
Building Construction	Generator Sets	1	6.00	84	0.74
Grading	Tractors/Loaders/Backhoes	3	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	6.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Paving	Paving Equipment	2	6.00	132	0.36
Site Preparation	Rubber Tired Dozers	3	6.00	247	0.40
Building Construction	Welders	1	6.00	46	0.45

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
Architectural Coating	1	19.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	96.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	197.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.1360	0.0000	2.1360	0.3234	0.0000	0.3234			0.0000			0.0000
Off-Road	2.4841	24.9008	16.3149	0.0291		1.2440	1.2440		1.1564	1.1564		2,810.7787	2,810.7787	0.7935		2,830.6152
Total	**2.4841**	**24.9008**	**16.3149**	**0.0291**	**2.1360**	**1.2440**	**3.3800**	**0.3234**	**1.1564**	**1.4798**		**2,810.7787**	**2,810.7787**	**0.7935**		**2,830.6152**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0881	2.8689	0.6670	7.6500e-003	0.1722	9.1800e-003	0.1814	0.0472	8.7800e-003	0.0560		828.4777	828.4777	0.0595		829.9643
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	0.0767	0.0544	0.6015	1.6700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		166.1131	166.1131	5.2400e-003		166.2440
Total	**0.1648**	**2.9233**	**1.2685**	**9.3200e-003**	**0.3399**	**0.0106**	**0.3505**	**0.0917**	**0.0101**	**0.1018**		**994.5907**	**994.5907**	**0.0647**		**996.2083**

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					0.9612	0.0000	0.9612	0.1455	0.0000	0.1455			0.0000			0.0000
Off-Road	2.4841	24.9008	16.3149	0.0291		1.2440	1.2440		1.1564	1.1564	0.0000	2,810.7787	2,810.7787	0.7935		2,830.6152
Total	**2.4841**	**24.9008**	**16.3149**	**0.0291**	**0.9612**	**1.2440**	**2.2052**	**0.1455**	**1.1564**	**1.3019**	**0.0000**	**2,810.7787**	**2,810.7787**	**0.7935**		**2,830.6152**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0881	2.8689	0.6670	7.6500e-003	0.1722	9.1800e-003	0.1814	0.0472	8.7800e-003	0.0560		828.4777	828.4777	0.0595		829.9643
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	0.0767	0.0544	0.6015	1.6700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		166.1131	166.1131	5.2400e-003		166.2440
Total	**0.1648**	**2.9233**	**1.2685**	**9.3200e-003**	**0.3399**	**0.0106**	**0.3505**	**0.0917**	**0.0101**	**0.1018**		**994.5907**	**994.5907**	**0.0647**		**996.2083**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					13.5497	0.0000	13.5497	7.4480	0.0000	7.4480			0.0000			0.0000
Off-Road	3.0574	31.8130	16.1352	0.0285		1.6481	1.6481		1.5162	1.5162		2,763.8262	2,763.8262	0.8939		2,786.1731
Total	**3.0574**	**31.8130**	**16.1352**	**0.0285**	**13.5497**	**1.6481**	**15.1978**	**7.4480**	**1.5162**	**8.9642**		**2,763.8262**	**2,763.8262**	**0.8939**		**2,786.1731**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0652	0.7218	2.0000e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		199.3357	199.3357	6.2800e-003		199.4927
Total	**0.0920**	**0.0652**	**0.7218**	**2.0000e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**199.3357**	**199.3357**	**6.2800e-003**		**199.4927**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0974	0.0000	6.0974	3.3516	0.0000	3.3516			0.0000			0.0000
Off-Road	3.0574	31.8130	16.1352	0.0285		1.6481	1.6481		1.5162	1.5162	0.0000	2,763.8262	2,763.8262	0.8939		2,786.1731
Total	**3.0574**	**31.8130**	**16.1352**	**0.0285**	**6.0974**	**1.6481**	**7.7454**	**3.3516**	**1.5162**	**4.8678**	**0.0000**	**2,763.8262**	**2,763.8262**	**0.8939**		**2,786.1731**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0652	0.7218	2.0000e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		199.3357	199.3357	6.2800e-003		199.4927
Total	**0.0920**	**0.0652**	**0.7218**	**2.0000e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**199.3357**	**199.3357**	**6.2800e-003**		**199.4927**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.0468	0.0000	5.0468	2.5399	0.0000	2.5399			0.0000			0.0000
Off-Road	1.8216	19.7894	12.0397	0.0222		0.9551	0.9551		0.8787	0.8787		2,154.3638	2,154.3638	0.6968		2,171.7830
Total	**1.8216**	**19.7894**	**12.0397**	**0.0222**	**5.0468**	**0.9551**	**6.0019**	**2.5399**	**0.8787**	**3.4186**		**2,154.3638**	**2,154.3638**	**0.6968**		**2,171.7830**

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0767	0.0544	0.6015	1.6700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		166.1131	166.1131	5.2400e-003		166.2440
Total	**0.0767**	**0.0544**	**0.6015**	**1.6700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**166.1131**	**166.1131**	**5.2400e-003**		**166.2440**

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					2.2711	0.0000	2.2711	1.1430	0.0000	1.1430			0.0000			0.0000
Off-Road	1.8216	19.7894	12.0397	0.0222		0.9551	0.9551		0.8787	0.8787	0.0000	2,154.3638	2,154.3638	0.6968		2,171.7830
Total	**1.8216**	**19.7894**	**12.0397**	**0.0222**	**2.2711**	**0.9551**	**3.2261**	**1.1430**	**0.8787**	**2.0216**	**0.0000**	**2,154.3638**	**2,154.3638**	**0.6968**		**2,171.7830**

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0767	0.0544	0.6015	1.6700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		166.1131	166.1131	5.2400e-003		166.2440
Total	**0.0767**	**0.0544**	**0.6015**	**1.6700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**166.1131**	**166.1131**	**5.2400e-003**		**166.2440**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3586	11.5310	11.9237	0.0174		0.7330	0.7330		0.6913	0.6913		1,641.7631	1,641.7631	0.3788		1,651.2340
Total	**1.3586**	**11.5310**	**11.9237**	**0.0174**		**0.7330**	**0.7330**		**0.6913**	**0.6913**		**1,641.7631**	**1,641.7631**	**0.3788**		**1,651.2340**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0521	1.4889	0.4303	3.5300e-003	0.0896	7.1200e-003	0.0968	0.0258	6.8100e-003	0.0326		377.2287	377.2287	0.0252		377.8593
Worker	0.4906	0.3480	3.8497	0.0107	1.0731	8.9700e-003	1.0820	0.2846	8.2600e-003	0.2928		1,063.1236	1,063.1236	0.0335		1,063.9613
Total	**0.5426**	**1.8369**	**4.2800**	**0.0142**	**1.1627**	**0.0161**	**1.1788**	**0.3104**	**0.0151**	**0.3255**		**1,440.3523**	**1,440.3523**	**0.0587**		**1,441.8206**

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	1.3586	11.5310	11.9237	0.0174		0.7330	0.7330		0.6913	0.6913	0.0000	1,641.7631	1,641.7631	0.3788		1,651.2340
Total	**1.3586**	**11.5310**	**11.9237**	**0.0174**		**0.7330**	**0.7330**		**0.6913**	**0.6913**	**0.0000**	**1,641.7631**	**1,641.7631**	**0.3788**		**1,651.2340**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0521	1.4889	0.4303	3.5300e-003	0.0896	7.1200e-003	0.0968	0.0258	6.8100e-003	0.0326		377.2287	377.2287	0.0252		377.8593
Worker	0.4906	0.3480	3.8497	0.0107	1.0731	8.9700e-003	1.0820	0.2846	8.2600e-003	0.2928		1,063.1236	1,063.1236	0.0335		1,063.9613
Total	**0.5426**	**1.8369**	**4.2800**	**0.0142**	**1.1627**	**0.0161**	**1.1788**	**0.3104**	**0.0151**	**0.3255**		**1,440.3523**	**1,440.3523**	**0.0587**		**1,441.8206**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2141	10.5037	11.7981	0.0174		0.6244	0.6244		0.5890	0.5890		1,642.0583	1,642.0583	0.3737		1,651.4015
Total	**1.2141**	**10.5037**	**11.7981**	**0.0174**		**0.6244**	**0.6244**		**0.5890**	**0.5890**		**1,642.0583**	**1,642.0583**	**0.3737**		**1,651.4015**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0447	1.3564	0.3931	3.5000e-003	0.0896	2.8700e-003	0.0925	0.0258	2.7400e-003	0.0286		374.2837	374.2837	0.0242		374.8878
Worker	0.4578	0.3131	3.5353	0.0103	1.0731	8.6700e-003	1.0817	0.2846	7.9900e-003	0.2926		1,029.3611	1,029.3611	0.0303		1,030.1183
Total	**0.5024**	**1.6695**	**3.9283**	**0.0138**	**1.1627**	**0.0115**	**1.1742**	**0.3104**	**0.0107**	**0.3211**		**1,403.6448**	**1,403.6448**	**0.0545**		**1,405.0061**

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	1.2141	10.5037	11.7981	0.0174		0.6244	0.6244		0.5890	0.5890	0.0000	1,642.0583	1,642.0583	0.3737		1,651.4015
Total	**1.2141**	**10.5037**	**11.7981**	**0.0174**		**0.6244**	**0.6244**		**0.5890**	**0.5890**	**0.0000**	**1,642.0583**	**1,642.0583**	**0.3737**		**1,651.4015**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0447	1.3564	0.3931	3.5000e-003	0.0896	2.8700e-003	0.0925	0.0258	2.7400e-003	0.0286		374.2837	374.2837	0.0242		374.8878
Worker	0.4578	0.3131	3.5353	0.0103	1.0731	8.6700e-003	1.0817	0.2846	7.9900e-003	0.2926		1,029.3611	1,029.3611	0.0303		1,030.1183
Total	**0.5024**	**1.6695**	**3.9283**	**0.0138**	**1.1627**	**0.0115**	**1.1742**	**0.3104**	**0.0107**	**0.3211**		**1,403.6448**	**1,403.6448**	**0.0545**		**1,405.0061**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342		1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0940**	**10.8399**	**12.2603**	**0.0189**		**0.5788**	**0.5788**		**0.5342**	**0.5342**		**1,804.5523**	**1,804.5523**	**0.5670**		**1,818.7270**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0954	0.0652	0.7365	2.1500e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		214.4502	214.4502	6.3100e-003		214.6080
Total	**0.0954**	**0.0652**	**0.7365**	**2.1500e-003**	**0.2236**	**1.8100e-003**	**0.2254**	**0.0593**	**1.6600e-003**	**0.0610**		**214.4502**	**214.4502**	**6.3100e-003**		**214.6080**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342	0.0000	1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0940**	**10.8399**	**12.2603**	**0.0189**		**0.5788**	**0.5788**		**0.5342**	**0.5342**	**0.0000**	**1,804.5523**	**1,804.5523**	**0.5670**		**1,818.7270**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0954	0.0652	0.7365	2.1500e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		214.4502	214.4502	6.3100e-003		214.6080
Total	**0.0954**	**0.0652**	**0.7365**	**2.1500e-003**	**0.2236**	**1.8100e-003**	**0.2254**	**0.0593**	**1.6600e-003**	**0.0610**		**214.4502**	**214.4502**	**6.3100e-003**		**214.6080**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	46.5818					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**46.8007**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0906	0.0620	0.6997	2.0400e-003	0.2124	1.7200e-003	0.2141	0.0563	1.5800e-003	0.0579		203.7277	203.7277	5.9900e-003		203.8776
Total	**0.0906**	**0.0620**	**0.6997**	**2.0400e-003**	**0.2124**	**1.7200e-003**	**0.2141**	**0.0563**	**1.5800e-003**	**0.0579**		**203.7277**	**203.7277**	**5.9900e-003**		**203.8776**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	46.5818					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**46.8007**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0906	0.0620	0.6997	2.0400e-003	0.2124	1.7200e-003	0.2141	0.0563	1.5800e-003	0.0579		203.7277	203.7277	5.9900e-003		203.8776
Total	**0.0906**	**0.0620**	**0.6997**	**2.0400e-003**	**0.2124**	**1.7200e-003**	**0.2141**	**0.0563**	**1.5800e-003**	**0.0579**		**203.7277**	**203.7277**	**5.9900e-003**		**203.8776**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Integrate Below Market Rate Housing

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.5162	7.2469	18.5834	0.0621	5.0980	0.0546	5.1526	1.3644	0.0509	1.4153		6,319.6228	6,319.6228	0.3533		6,328.4559
Unmitigated	1.6798	8.3546	22.5186	0.0779	6.4750	0.0678	6.5428	1.7329	0.0633	1.7962		7,919.6362	7,919.6362	0.4302		7,930.3914

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	891.10	856.26	785.24	2,976,339	2,343,375
Total	891.10	856.26	785.24	2,976,339	2,343,375

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0530	0.4532	0.1929	2.8900e-003		0.0366	0.0366		0.0366	0.0366		578.5936	578.5936	0.0111	0.0106	582.0319
NaturalGas Unmitigated	0.0530	0.4532	0.1929	2.8900e-003		0.0366	0.0366		0.0366	0.0366		578.5936	578.5936	0.0111	0.0106	582.0319

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	4918.05	0.0530	0.4532	0.1929	2.8900e-003		0.0366	0.0366		0.0366	0.0366		578.5936	578.5936	0.0111	0.0106	582.0319
Total		**0.0530**	**0.4532**	**0.1929**	**2.8900e-003**		**0.0366**	**0.0366**		**0.0366**	**0.0366**		**578.5936**	**578.5936**	**0.0111**	**0.0106**	**582.0319**

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 Mid Rise	4.91805	0.0530	0.4532	0.1929	2.8900e-003		0.0366	0.0366		0.0366	0.0366		578.5936	578.5936	0.0111	0.0106	582.0319
Total		**0.0530**	**0.4532**	**0.1929**	**2.8900e-003**		**0.0366**	**0.0366**		**0.0366**	**0.0366**		**578.5936**	**578.5936**	**0.0111**	**0.0106**	**582.0319**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.0119	0.1279	11.0792	5.8000e-004		0.0611	0.0611		0.0611	0.0611	0.0000	19.9060	19.9060	0.0193	0.0000	20.3883
Unmitigated	3.2186	0.1279	11.0792	5.8000e-004		0.0611	0.0611		0.0611	0.0611	0.0000	19.9060	19.9060	0.0193	0.0000	20.3883

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	0.2297					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6532					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3357	0.1279	11.0792	5.8000e-004		0.0611	0.0611		0.0611	0.0611		19.9060	19.9060	0.0193		20.3883
Total	**3.2186**	**0.1279**	**11.0792**	**5.8000e-004**		**0.0611**	**0.0611**		**0.0611**	**0.0611**	**0.0000**	**19.9060**	**19.9060**	**0.0193**	**0.0000**	**20.3883**

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	0.0230					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6532					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.3357	0.1279	11.0792	5.8000e-004		0.0611	0.0611		0.0611	0.0611		19.9060	19.9060	0.0193		20.3883
Total	**3.0119**	**0.1279**	**11.0792**	**5.8000e-004**		**0.0611**	**0.0611**		**0.0611**	**0.0611**	**0.0000**	**19.9060**	**19.9060**	**0.0193**	**0.0000**	**20.3883**

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

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Artesia HO-O Zone Implementation - Area A

Los Angeles-South Coast County, Mitigation Report

Construction Mitigation Summary

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

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	2	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	6	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	11	No Change	0.00
Excavators	Diesel	No Change	0	4	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Air Compressors	1.97000E-003	1.37400E-002	1.63600E-002	3.00000E-005	8.50000E-004	8.50000E-004	0.00000E+000	2.29793E+000	2.29793E+000	1.60000E-004	0.00000E+000	2.30187E+000
Cement and Mortar Mixers	7.90000E-004	4.97000E-003	4.16000E-003	1.00000E-005	1.90000E-004	1.90000E-004	0.00000E+000	6.18670E-001	6.18670E-001	6.00000E-005	0.00000E+000	6.20280E-001
Concrete/Industrial Saws	3.14000E-003	2.47400E-002	2.76500E-002	5.00000E-005	1.49000E-003	1.49000E-003	0.00000E+000	4.03242E+000	4.03242E+000	2.60000E-004	0.00000E+000	4.03881E+000
Cranes	8.30000E-004	9.88000E-003	3.91000E-003	1.00000E-005	4.10000E-004	3.70000E-004	0.00000E+000	9.47300E-001	9.47300E-001	3.10000E-004	0.00000E+000	9.54960E-001
Excavators	6.25000E-003	6.15200E-002	8.33300E-002	1.30000E-004	2.98000E-003	2.74000E-003	0.00000E+000	1.15693E+001	1.15693E+001	3.74000E-003	0.00000E+000	1.16629E+001
Forklifts	3.65400E-002	3.29870E-001	3.04780E-001	4.00000E-004	2.43700E-002	2.24200E-002	0.00000E+000	3.47479E+001	3.47479E+001	1.12400E-002	0.00000E+000	3.50288E+001
Generator Sets	3.37300E-002	2.94870E-001	3.19260E-001	5.70000E-004	1.64600E-002	1.64600E-002	0.00000E+000	4.87491E+001	4.87491E+001	2.70000E-003	0.00000E+000	4.88165E+001
Graders	1.43000E-003	1.89800E-002	5.44000E-003	2.00000E-005	6.10000E-004	5.60000E-004	0.00000E+000	1.74919E+000	1.74919E+000	5.70000E-004	0.00000E+000	1.76334E+000
Pavers	2.22000E-003	2.33600E-002	2.61400E-002	4.00000E-005	1.13000E-003	1.04000E-003	0.00000E+000	3.71542E+000	3.71542E+000	1.20000E-003	0.00000E+000	3.74546E+000
Paving Equipment	2.59000E-003	2.61900E-002	3.43100E-002	6.00000E-005	1.29000E-003	1.19000E-003	0.00000E+000	4.83090E+000	4.83090E+000	1.56000E-003	0.00000E+000	4.86996E+000
Rollers	2.56000E-003	2.59800E-002	2.53900E-002	4.00000E-005	1.59000E-003	1.46000E-003	0.00000E+000	3.11183E+000	3.11183E+000	1.01000E-003	0.00000E+000	3.13699E+000
Rubber Tired Dozers	2.55000E-002	2.67720E-001	9.76100E-002	2.00000E-004	1.31100E-002	1.20600E-002	0.00000E+000	1.77318E+001	1.77318E+001	5.73000E-003	0.00000E+000	1.78752E+001
Tractors/Loaders/Backhoes	5.82500E-002	5.86140E-001	6.46870E-001	8.80000E-004	3.65900E-002	3.36600E-002	0.00000E+000	7.75653E+001	7.75653E+001	2.50900E-002	0.00000E+000	7.81925E+001
Welders	2.88500E-002	1.34500E-001	1.51610E-001	2.20000E-004	7.28000E-003	7.28000E-003	0.00000E+000	1.62340E+001	1.62340E+001	2.34000E-003	0.00000E+000	1.62927E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Mitigated tons/yr						Mitigated mt/yr					
Air Compressors	1.97000E-003	1.37400E-002	1.63600E-002	3.00000E-005	8.50000E-004	8.50000E-004	0.00000E+000	2.29793E+000	2.29793E+000	1.60000E-004	0.00000E+000	2.30187E+000
Cement and Mortar Mixers	7.90000E-004	4.97000E-003	4.16000E-003	1.00000E-005	1.90000E-004	1.90000E-004	0.00000E+000	6.18670E-001	6.18670E-001	6.00000E-005	0.00000E+000	6.20280E-001
Concrete/Industrial Saws	3.14000E-003	2.47400E-002	2.76500E-002	5.00000E-005	1.49000E-003	1.49000E-003	0.00000E+000	4.03242E+000	4.03242E+000	2.60000E-004	0.00000E+000	4.03880E+000
Cranes	8.30000E-004	9.88000E-003	3.91000E-003	1.00000E-005	4.10000E-004	3.70000E-004	0.00000E+000	9.47300E-001	9.47300E-001	3.10000E-004	0.00000E+000	9.54960E-001
Excavators	6.25000E-003	6.15200E-002	8.33300E-002	1.30000E-004	2.98000E-003	2.74000E-003	0.00000E+000	1.15693E+001	1.15693E+001	3.74000E-003	0.00000E+000	1.16629E+001
Forklifts	3.65400E-002	3.29870E-001	3.04780E-001	4.00000E-004	2.43700E-002	2.24200E-002	0.00000E+000	3.47478E+001	3.47478E+001	1.12400E-002	0.00000E+000	3.50288E+001
Generator Sets	3.37300E-002	2.94870E-001	3.19260E-001	5.70000E-004	1.64600E-002	1.64600E-002	0.00000E+000	4.87491E+001	4.87491E+001	2.70000E-003	0.00000E+000	4.88165E+001
Graders	1.43000E-003	1.89800E-002	5.44000E-003	2.00000E-005	6.10000E-004	5.60000E-004	0.00000E+000	1.74919E+000	1.74919E+000	5.70000E-004	0.00000E+000	1.76333E+000
Pavers	2.22000E-003	2.33600E-002	2.61400E-002	4.00000E-005	1.13000E-003	1.04000E-003	0.00000E+000	3.71541E+000	3.71541E+000	1.20000E-003	0.00000E+000	3.74545E+000
Paving Equipment	2.59000E-003	2.61900E-002	3.43100E-002	6.00000E-005	1.29000E-003	1.19000E-003	0.00000E+000	4.83089E+000	4.83089E+000	1.56000E-003	0.00000E+000	4.86995E+000
Rollers	2.56000E-003	2.59800E-002	2.53900E-002	4.00000E-005	1.59000E-003	1.46000E-003	0.00000E+000	3.11182E+000	3.11182E+000	1.01000E-003	0.00000E+000	3.13698E+000
Rubber Tired Dozers	2.55000E-002	2.67720E-001	9.76100E-002	2.00000E-004	1.31100E-002	1.20600E-002	0.00000E+000	1.77318E+001	1.77318E+001	5.73000E-003	0.00000E+000	1.78752E+001
Tractors/Loaders/Backhoes	5.82500E-002	5.86140E-001	6.46860E-001	8.80000E-004	3.65900E-002	3.36600E-002	0.00000E+000	7.75652E+001	7.75652E+001	2.50900E-002	0.00000E+000	7.81924E+001
Welders	2.88500E-002	1.34500E-001	1.51610E-001	2.20000E-004	7.28000E-003	7.28000E-003	0.00000E+000	1.62340E+001	1.62340E+001	2.34000E-003	0.00000E+000	1.62926E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.47598E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	8.64354E-007	8.64354E-007	0.00000E+000	0.00000E+000	8.57420E-007
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15115E-006	1.15115E-006	0.00000E+000	0.00000E+000	1.14192E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23079E-006	1.23079E-006	0.00000E+000	0.00000E+000	1.22909E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	5.67106E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.69149E-006	2.69149E-006	0.00000E+000	0.00000E+000	2.66990E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.07001E-006	2.07001E-006	0.00000E+000	0.00000E+000	2.05340E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	3.21354E-006	3.21354E-006	0.00000E+000	0.00000E+000	3.18777E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.12792E-006	1.12792E-006	0.00000E+000	0.00000E+000	1.11887E-006
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	1.54591E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.16031E-006	1.16031E-006	0.00000E+000	0.00000E+000	1.15101E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23198E-006	1.23198E-006	0.00000E+000	0.00000E+000	1.22755E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input		Mitigation Input		Mitigation Input	
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00

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

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.13	0.04	0.13	0.04	0.00	0.00
Demolition	Fugitive Dust	0.02	0.00	0.01	0.00	0.55	0.55
Demolition	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Grading	Fugitive Dust	0.02	0.01	0.01	0.00	0.55	0.55
Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.03	0.02	0.02	0.01	0.55	0.55
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	90.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.14	0.00	0.05
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	10.04	13.28	17.69	20.21	19.50	19.54	0.00	20.16	20.16	18.04	0.00	20.15
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	15.14	15.37	19.96	19.61	15.99
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting: Urban

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
Yes	Land Use	Increase Density	0.00	30.00	0.00	
No	Land Use	Increase Diversity	-0.01	0.13		
No	Land Use	Improve Walkability Design	0.00	0.00		
No	Land Use	Improve Destination Accessibility	0.00	0.00		
No	Land Use	Increase Transit Accessibility	0.25	0.00		
Yes	Land Use	Integrate Below Market Rate Housing	0.01	20.00		
	Land Use	Land Use SubTotal	0.21			

No	Neighborhood Enhancements	Improve Pedestrian Network	0.00			
No	Neighborhood Enhancements	Provide Traffic Calming Measures	0.00			
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
No	Parking Policy Pricing	Limit Parking Supply	0.00	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00	0.00		
No	Transit Improvements	Expand Transit Network	0.00	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		0.00	
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.21			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"	7.70			
No	Commute	Workplace Parking Charge		0.00		
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00		2.00	
No	Commute	Provide Ride Sharing Program	15.00			
	Commute	Commute Subtotal	0.00			

No	School Trip	Implement School Bus Program	0.00			
		Total VMT Reduction	0.21			

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
Yes	No Hearth	
No	Use Low VOC Cleaning Supplies	
Yes	Use Low VOC Paint (Residential Interior)	5.00
Yes	Use Low VOC Paint (Residential Exterior)	5.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
Yes	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24	0.00	
No	Install High Efficiency Lighting	0.00	
Yes	On-site Renewable	262.10	0.00

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

Water Mitigation Measures

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

Solid Waste Mitigation

Mitigation Measures	Input Value

Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

Artesia HO-O Zone Implementation - Area B

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	55.00	Dwelling Unit	1.82	55,000.00	157

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction hypothesized to start in March 2020 for model purposes.
Project modeled to be operational in 2021.

Land Use - Combined Group B lot area less one > 0.5-acre fully-developed parcel.
Dimensions - L.A. Co. Assessor.

Construction Phase - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment - Defaults used.

Grading - Assumes no cut/fill. Terrain is flat.

Off-road Equipment - Estimated real-time use: equipt not expected to be running continuously for 8 hrs/day.

Off-road Equipment - Estimated real-time use: equipt not expected to be running continuously for 8 hrs/day.

Off-road Equipment - Cranes anticipated to be used approx 14 days over 200-day consruction period.

30 days/200 days = 0.1 = fractional crane use over whole period.
Off-road Equipment - Defaults used.

Demolition - Extg bldg square footage obtained from L.A. Co. Assessor.

Trips and VMT - Defaults used.

On-road Fugitive Dust - Defaults used.

Architectural Coating - Defaults used.

Woodstoves - No fireplaces/wood stoves.

Road Dust - Defaults used.

Vehicle Emission Factors - Defaults used.

Vehicle Emission Factors - Defaults used.

Vehicle Emission Factors - Defaults used.

Consumer Products - Defaults used.

Area Coating - Defaults used.

Energy Use -

Water And Wastewater - Defaults used.

Solid Waste - Defaults used.

Land Use Change - No natural vegetation changes - area previously developed, urban.

Sequestration - Assumes 1/4 tree/unit.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Density overall increased from ~ 15/acre to 30/acre.

Area Mitigation - Zero VOC coatings indicated to be 5 g/l or less - used Dunn-Edwards "Everest" zero-VOC paint as example.

Energy Mitigation - Required PV installation per 2018 Title 24 Multifamily Residential on-site solar provision.
See Cal. Energy Comm, Residential Compliance Manual, December 2018, p. 7-1 for calculating PV system size.

Water Mitigation - Defaults used; assume Ti. 24 compliance for low-flow fixtures.

Artesia HO-O Zone Implementation - Area B - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	5
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	5
tblFireplaces	NumberGas	46.75	0.00
tblFireplaces	NumberWood	2.75	0.00
tblGrading	AcresOfGrading	0.75	1.00
tblLandUse	LotAcreage	1.45	1.82
tblOffRoadEquipment	UsageHours	6.00	0.10
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblSequestration	NumberOfNewTrees	0.00	14.00
tblWoodstoves	NumberCatalytic	2.75	0.00
tblWoodstoves	NumberNoncatalytic	2.75	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.2098	1.3824	1.4710	2.6200e-003	0.0683	0.0752	0.1435	0.0213	0.0729	0.0942	0.0000	221.1010	221.1010	0.0298	0.0000	221.8454
2021	0.1834	0.0845	0.1032	1.8000e-004	2.8200e-003	4.4600e-003	7.2800e-003	7.5000e-004	4.2500e-003	5.0100e-003	0.0000	15.1454	15.1454	2.7700e-003	0.0000	15.2146
Maximum	**0.2098**	**1.3824**	**1.4710**	**2.6200e-003**	**0.0683**	**0.0752**	**0.1435**	**0.0213**	**0.0729**	**0.0942**	**0.0000**	**221.1010**	**221.1010**	**0.0298**	**0.0000**	**221.8454**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.2098	1.3824	1.4710	2.6200e-003	0.0572	0.0752	0.1324	0.0166	0.0729	0.0895	0.0000	221.1008	221.1008	0.0298	0.0000	221.8452
2021	0.1834	0.0845	0.1032	1.8000e-004	2.8200e-003	4.4600e-003	7.2800e-003	7.5000e-004	4.2500e-003	5.0100e-003	0.0000	15.1454	15.1454	2.7700e-003	0.0000	15.2145
Maximum	**0.2098**	**1.3824**	**1.4710**	**2.6200e-003**	**0.0572**	**0.0752**	**0.1324**	**0.0166**	**0.0729**	**0.0895**	**0.0000**	**221.1008**	**221.1008**	**0.0298**	**0.0000**	**221.8452**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**15.65**	**0.00**	**7.38**	**21.04**	**0.00**	**4.67**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Artesia HO-O Zone Implementation - Area B - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-2-2020	6-1-2020	0.5498	0.5498
2	6-2-2020	9-1-2020	0.4430	0.4430
3	9-2-2020	12-1-2020	0.4390	0.4390
4	12-2-2020	3-1-2021	0.4181	0.4181
		Highest	0.5498	0.5498

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	0.2332	6.5600e-003	0.5684	3.0000e-005		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	0.9265	0.9265	9.0000e-004	0.0000	0.9490
Energy	3.9700e-003	0.0340	0.0145	2.2000e-004		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003	0.0000	110.2587	110.2587	3.6800e-003	1.3300e-003	110.7462
Mobile	0.1199	0.6215	1.6682	5.7600e-003	0.4637	4.9300e-003	0.4686	0.1243	4.6000e-003	0.1289	0.0000	531.9409	531.9409	0.0284	0.0000	532.6509
Waste						0.0000	0.0000		0.0000	0.0000	5.1357	0.0000	5.1357	0.3035	0.0000	12.7234
Water						0.0000	0.0000		0.0000	0.0000	1.1369	22.8641	24.0010	0.1177	2.9500e-003	27.8236
Total	**0.3570**	**0.6620**	**2.2511**	**6.0100e-003**	**0.4637**	**0.0108**	**0.4745**	**0.1243**	**0.0105**	**0.1348**	**6.2725**	**665.9903**	**672.2628**	**0.4542**	**4.2800e-003**	**684.8931**

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	0.2177	6.5600e-003	0.5684	3.0000e-005		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	0.9265	0.9265	9.0000e-004	0.0000	0.9490
Energy	3.9700e-003	0.0340	0.0145	2.2000e-004		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003	0.0000	110.2245	110.2245	3.6800e-003	1.3300e-003	110.7118
Mobile	0.1082	0.5414	1.3819	4.6400e-003	0.3680	3.9900e-003	0.3720	0.0987	3.7300e-003	0.1024	0.0000	427.9160	427.9160	0.0234	0.0000	428.5017
Waste						0.0000	0.0000		0.0000	0.0000	5.1357	0.0000	5.1357	0.3035	0.0000	12.7234
Water						0.0000	0.0000		0.0000	0.0000	0.9095	19.4029	20.3124	0.0942	2.3700e-003	23.3745
Total	**0.3299**	**0.5819**	**1.9648**	**4.8900e-003**	**0.3680**	**9.8600e-003**	**0.3779**	**0.0987**	**9.6000e-003**	**0.1082**	**6.0452**	**558.4698**	**564.5150**	**0.4257**	**3.7000e-003**	**576.2603**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**7.61**	**12.10**	**12.72**	**18.64**	**20.63**	**8.70**	**20.36**	**20.63**	**8.31**	**19.68**	**3.62**	**16.14**	**16.03**	**6.27**	**13.55**	**15.86**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	9.9120
Total	**9.9120**

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	3/2/2020	3/27/2020	5	20	
2	Site Preparation	Site Preparation	3/28/2020	3/31/2020	5	2	
3	Grading	Grading	4/1/2020	4/6/2020	5	4	
4	Building Construction	Building Construction	4/7/2020	1/11/2021	5	200	
5	Paving	Paving	1/12/2021	1/25/2021	5	10	
6	Architectural Coating	Architectural Coating	1/26/2021	2/8/2021	5	10	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 111,375; Residential Outdoor: 37,125; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	0.10	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Site Preparation	Graders	1	6.00	187	0.41
Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Welders	3	8.00	46	0.45

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
Architectural Coating	1	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	40.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	50.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	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
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.3700e-003	0.0000	5.3700e-003	8.1000e-004	0.0000	8.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0213	0.2095	0.1466	2.4000e-004		0.0115	0.0115		0.0108	0.0108	0.0000	21.0677	21.0677	5.4200e-003	0.0000	21.2031
Total	**0.0213**	**0.2095**	**0.1466**	**2.4000e-004**	**5.3700e-003**	**0.0115**	**0.0169**	**8.1000e-004**	**0.0108**	**0.0116**	**0.0000**	**21.0677**	**21.0677**	**5.4200e-003**	**0.0000**	**21.2031**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.2000e-004	7.4200e-003	1.6400e-003	2.0000e-005	4.3000e-004	2.0000e-005	4.5000e-004	1.2000e-004	2.0000e-005	1.4000e-004	0.0000	1.9270	1.9270	1.3000e-004	0.0000	1.9303
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-004	4.8000e-004	5.3500e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.3278	1.3278	4.0000e-005	0.0000	1.3288
Total	**8.2000e-004**	**7.9000e-003**	**6.9900e-003**	**3.0000e-005**	**1.8500e-003**	**3.0000e-005**	**1.8900e-003**	**5.0000e-004**	**3.0000e-005**	**5.3000e-004**	**0.0000**	**3.2547**	**3.2547**	**1.7000e-004**	**0.0000**	**3.2591**

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					2.4100e-003	0.0000	2.4100e-003	3.7000e-004	0.0000	3.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0213	0.2095	0.1466	2.4000e-004		0.0115	0.0115		0.0108	0.0108	0.0000	21.0676	21.0676	5.4200e-003	0.0000	21.2030
Total	**0.0213**	**0.2095**	**0.1466**	**2.4000e-004**	**2.4100e-003**	**0.0115**	**0.0139**	**3.7000e-004**	**0.0108**	**0.0111**	**0.0000**	**21.0676**	**21.0676**	**5.4200e-003**	**0.0000**	**21.2030**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.2000e-004	7.4200e-003	1.6400e-003	2.0000e-005	4.3000e-004	2.0000e-005	4.5000e-004	1.2000e-004	2.0000e-005	1.4000e-004	0.0000	1.9270	1.9270	1.3000e-004	0.0000	1.9303
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-004	4.8000e-004	5.3500e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.3278	1.3278	4.0000e-005	0.0000	1.3288
Total	**8.2000e-004**	**7.9000e-003**	**6.9900e-003**	**3.0000e-005**	**1.8500e-003**	**3.0000e-005**	**1.8900e-003**	**5.0000e-004**	**3.0000e-005**	**5.3000e-004**	**0.0000**	**3.2547**	**3.2547**	**1.7000e-004**	**0.0000**	**3.2591**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.0500e-003	0.0000	5.0500e-003	2.5400e-003	0.0000	2.5400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3200e-003	0.0148	6.1700e-003	1.0000e-005		6.7000e-004	6.7000e-004		6.1000e-004	6.1000e-004	0.0000	1.2049	1.2049	3.9000e-004	0.0000	1.2146
Total	**1.3200e-003**	**0.0148**	**6.1700e-003**	**1.0000e-005**	**5.0500e-003**	**6.7000e-004**	**5.7200e-003**	**2.5400e-003**	**6.1000e-004**	**3.1500e-003**	**0.0000**	**1.2049**	**1.2049**	**3.9000e-004**	**0.0000**	**1.2146**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	3.3000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0817	0.0817	0.0000	0.0000	0.0818
Total	**4.0000e-005**	**3.0000e-005**	**3.3000e-004**	**0.0000**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0817**	**0.0817**	**0.0000**	**0.0000**	**0.0818**

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					2.2700e-003	0.0000	2.2700e-003	1.1400e-003	0.0000	1.1400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3200e-003	0.0148	6.1700e-003	1.0000e-005		6.7000e-004	6.7000e-004		6.1000e-004	6.1000e-004	0.0000	1.2049	1.2049	3.9000e-004	0.0000	1.2146
Total	**1.3200e-003**	**0.0148**	**6.1700e-003**	**1.0000e-005**	**2.2700e-003**	**6.7000e-004**	**2.9400e-003**	**1.1400e-003**	**6.1000e-004**	**1.7500e-003**	**0.0000**	**1.2049**	**1.2049**	**3.9000e-004**	**0.0000**	**1.2146**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	3.3000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0817	0.0817	0.0000	0.0000	0.0818
Total	**4.0000e-005**	**3.0000e-005**	**3.3000e-004**	**0.0000**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0817**	**0.0817**	**0.0000**	**0.0000**	**0.0818**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.8300e-003	0.0000	9.8300e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6500e-003	0.0296	0.0123	3.0000e-005		1.3400e-003	1.3400e-003		1.2300e-003	1.2300e-003	0.0000	2.4097	2.4097	7.8000e-004	0.0000	2.4292
Total	**2.6500e-003**	**0.0296**	**0.0123**	**3.0000e-005**	**9.8300e-003**	**1.3400e-003**	**0.0112**	**5.0500e-003**	**1.2300e-003**	**6.2800e-003**	**0.0000**	**2.4097**	**2.4097**	**7.8000e-004**	**0.0000**	**2.4292**

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	6.0000e-005	6.6000e-004	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1634	0.1634	1.0000e-005	0.0000	0.1635
Total	**7.0000e-005**	**6.0000e-005**	**6.6000e-004**	**0.0000**	**1.8000e-004**	**0.0000**	**1.8000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.1634**	**0.1634**	**1.0000e-005**	**0.0000**	**0.1635**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.4200e-003	0.0000	4.4200e-003	2.2700e-003	0.0000	2.2700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6500e-003	0.0296	0.0123	3.0000e-005		1.3400e-003	1.3400e-003		1.2300e-003	1.2300e-003	0.0000	2.4097	2.4097	7.8000e-004	0.0000	2.4292
Total	**2.6500e-003**	**0.0296**	**0.0123**	**3.0000e-005**	**4.4200e-003**	**1.3400e-003**	**5.7600e-003**	**2.2700e-003**	**1.2300e-003**	**3.5000e-003**	**0.0000**	**2.4097**	**2.4097**	**7.8000e-004**	**0.0000**	**2.4292**

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	6.0000e-005	6.6000e-004	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1634	0.1634	1.0000e-005	0.0000	0.1635
Total	**7.0000e-005**	**6.0000e-005**	**6.6000e-004**	**0.0000**	**1.8000e-004**	**0.0000**	**1.8000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.1634**	**0.1634**	**1.0000e-005**	**0.0000**	**0.1635**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1637	1.0434	1.1221	1.7200e-003		0.0610	0.0610		0.0596	0.0596	0.0000	139.1109	139.1109	0.0209	0.0000	139.6322
Total	**0.1637**	**1.0434**	**1.1221**	**1.7200e-003**		**0.0610**	**0.0610**		**0.0596**	**0.0596**	**0.0000**	**139.1109**	**139.1109**	**0.0209**	**0.0000**	**139.6322**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1000e-003	0.0627	0.0170	1.5000e-004	3.6500e-003	2.9000e-004	3.9400e-003	1.0500e-003	2.8000e-004	1.3300e-003	0.0000	14.3839	14.3839	9.1000e-004	0.0000	14.4067
Worker	0.0178	0.0144	0.1589	4.4000e-004	0.0423	3.6000e-004	0.0427	0.0112	3.3000e-004	0.0116	0.0000	39.4241	39.4241	1.2400e-003	0.0000	39.4552
Total	**0.0199**	**0.0771**	**0.1759**	**5.9000e-004**	**0.0460**	**6.5000e-004**	**0.0466**	**0.0123**	**6.1000e-004**	**0.0129**	**0.0000**	**53.8080**	**53.8080**	**2.1500e-003**	**0.0000**	**53.8619**

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	0.1637	1.0434	1.1221	1.7200e-003		0.0610	0.0610		0.0596	0.0596	0.0000	139.1108	139.1108	0.0209	0.0000	139.6321
Total	**0.1637**	**1.0434**	**1.1221**	**1.7200e-003**		**0.0610**	**0.0610**		**0.0596**	**0.0596**	**0.0000**	**139.1108**	**139.1108**	**0.0209**	**0.0000**	**139.6321**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.1000e-003	0.0627	0.0170	1.5000e-004	3.6500e-003	2.9000e-004	3.9400e-003	1.0500e-003	2.8000e-004	1.3300e-003	0.0000	14.3839	14.3839	9.1000e-004	0.0000	14.4067
Worker	0.0178	0.0144	0.1589	4.4000e-004	0.0423	3.6000e-004	0.0427	0.0112	3.3000e-004	0.0116	0.0000	39.4241	39.4241	1.2400e-003	0.0000	39.4552
Total	**0.0199**	**0.0771**	**0.1759**	**5.9000e-004**	**0.0460**	**6.5000e-004**	**0.0466**	**0.0123**	**6.1000e-004**	**0.0129**	**0.0000**	**53.8080**	**53.8080**	**2.1500e-003**	**0.0000**	**53.8619**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.2800e-003	0.0352	0.0400	6.0000e-005		1.8900e-003	1.8900e-003		1.8500e-003	1.8500e-003	0.0000	5.0458	5.0458	7.1000e-004	0.0000	5.0636
Total	**5.2800e-003**	**0.0352**	**0.0400**	**6.0000e-005**		**1.8900e-003**	**1.8900e-003**		**1.8500e-003**	**1.8500e-003**	**0.0000**	**5.0458**	**5.0458**	**7.1000e-004**	**0.0000**	**5.0636**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-005	2.0700e-003	5.6000e-004	1.0000e-005	1.3000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5176	0.5176	3.0000e-005	0.0000	0.5184
Worker	6.0000e-004	4.7000e-004	5.2900e-003	2.0000e-005	1.5300e-003	1.0000e-005	1.5500e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.3845	1.3845	4.0000e-005	0.0000	1.3855
Total	**6.7000e-004**	**2.5400e-003**	**5.8500e-003**	**3.0000e-005**	**1.6600e-003**	**1.0000e-005**	**1.6900e-003**	**4.5000e-004**	**1.0000e-005**	**4.6000e-004**	**0.0000**	**1.9021**	**1.9021**	**7.0000e-005**	**0.0000**	**1.9039**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.2800e-003	0.0352	0.0400	6.0000e-005		1.8900e-003	1.8900e-003		1.8500e-003	1.8500e-003	0.0000	5.0458	5.0458	7.1000e-004	0.0000	5.0636
Total	**5.2800e-003**	**0.0352**	**0.0400**	**6.0000e-005**		**1.8900e-003**	**1.8900e-003**		**1.8500e-003**	**1.8500e-003**	**0.0000**	**5.0458**	**5.0458**	**7.1000e-004**	**0.0000**	**5.0636**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-005	2.0700e-003	5.6000e-004	1.0000e-005	1.3000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5176	0.5176	3.0000e-005	0.0000	0.5184
Worker	6.0000e-004	4.7000e-004	5.2900e-003	2.0000e-005	1.5300e-003	1.0000e-005	1.5500e-003	4.1000e-004	1.0000e-005	4.2000e-004	0.0000	1.3845	1.3845	4.0000e-005	0.0000	1.3855
Total	**6.7000e-004**	**2.5400e-003**	**5.8500e-003**	**3.0000e-005**	**1.6600e-003**	**1.0000e-005**	**1.6900e-003**	**4.5000e-004**	**1.0000e-005**	**4.6000e-004**	**0.0000**	**1.9021**	**1.9021**	**7.0000e-005**	**0.0000**	**1.9039**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.8700e-003	0.0387	0.0443	7.0000e-005		2.0800e-003	2.0800e-003		1.9100e-003	1.9100e-003	0.0000	5.8825	5.8825	1.8600e-003	0.0000	5.9291
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.8700e-003**	**0.0387**	**0.0443**	**7.0000e-005**		**2.0800e-003**	**2.0800e-003**		**1.9100e-003**	**1.9100e-003**	**0.0000**	**5.8825**	**5.8825**	**1.8600e-003**	**0.0000**	**5.9291**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.2000e-004	2.4600e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.2000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6428	0.6428	2.0000e-005	0.0000	0.6433
Total	**2.8000e-004**	**2.2000e-004**	**2.4600e-003**	**1.0000e-005**	**7.1000e-004**	**1.0000e-005**	**7.2000e-004**	**1.9000e-004**	**1.0000e-005**	**1.9000e-004**	**0.0000**	**0.6428**	**0.6428**	**2.0000e-005**	**0.0000**	**0.6433**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.8700e-003	0.0387	0.0443	7.0000e-005		2.0800e-003	2.0800e-003		1.9100e-003	1.9100e-003	0.0000	5.8825	5.8825	1.8600e-003	0.0000	5.9291
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.8700e-003**	**0.0387**	**0.0443**	**7.0000e-005**		**2.0800e-003**	**2.0800e-003**		**1.9100e-003**	**1.9100e-003**	**0.0000**	**5.8825**	**5.8825**	**1.8600e-003**	**0.0000**	**5.9291**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.2000e-004	2.4600e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.2000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6428	0.6428	2.0000e-005	0.0000	0.6433
Total	**2.8000e-004**	**2.2000e-004**	**2.4600e-003**	**1.0000e-005**	**7.1000e-004**	**1.0000e-005**	**7.2000e-004**	**1.9000e-004**	**1.0000e-005**	**1.9000e-004**	**0.0000**	**0.6428**	**0.6428**	**2.0000e-005**	**0.0000**	**0.6433**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1721					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0900e-003	7.6300e-003	9.0900e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.2766	1.2766	9.0000e-005	0.0000	1.2788
Total	**0.1732**	**7.6300e-003**	**9.0900e-003**	**1.0000e-005**		**4.7000e-004**	**4.7000e-004**		**4.7000e-004**	**4.7000e-004**	**0.0000**	**1.2766**	**1.2766**	**9.0000e-005**	**0.0000**	**1.2788**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.3000e-004	1.5100e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3956	0.3956	1.0000e-005	0.0000	0.3959
Total	**1.7000e-004**	**1.3000e-004**	**1.5100e-003**	**0.0000**	**4.4000e-004**	**0.0000**	**4.4000e-004**	**1.2000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**0.3956**	**0.3956**	**1.0000e-005**	**0.0000**	**0.3959**

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	0.1721					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0900e-003	7.6300e-003	9.0900e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.2766	1.2766	9.0000e-005	0.0000	1.2788
Total	**0.1732**	**7.6300e-003**	**9.0900e-003**	**1.0000e-005**		**4.7000e-004**	**4.7000e-004**		**4.7000e-004**	**4.7000e-004**	**0.0000**	**1.2766**	**1.2766**	**9.0000e-005**	**0.0000**	**1.2788**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.3000e-004	1.5100e-003	0.0000	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3956	0.3956	1.0000e-005	0.0000	0.3959
Total	**1.7000e-004**	**1.3000e-004**	**1.5100e-003**	**0.0000**	**4.4000e-004**	**0.0000**	**4.4000e-004**	**1.2000e-004**	**0.0000**	**1.2000e-004**	**0.0000**	**0.3956**	**0.3956**	**1.0000e-005**	**0.0000**	**0.3959**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1082	0.5414	1.3819	4.6400e-003	0.3680	3.9900e-003	0.3720	0.0987	3.7300e-003	0.1024	0.0000	427.9160	427.9160	0.0234	0.0000	428.5017
Unmitigated	0.1199	0.6215	1.6682	5.7600e-003	0.4637	4.9300e-003	0.4686	0.1243	4.6000e-003	0.1289	0.0000	531.9409	531.9409	0.0284	0.0000	532.6509

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	365.75	351.45	322.30	1,221,632	969,590
Total	365.75	351.45	322.30	1,221,632	969,590

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	70.9066	70.9066	2.9300e-003	6.1000e-004	71.1603
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	70.9409	70.9409	2.9300e-003	6.1000e-004	71.1947
NaturalGas Mitigated	3.9700e-003	0.0340	0.0145	2.2000e-004		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003	0.0000	39.3179	39.3179	7.5000e-004	7.2000e-004	39.5515
NaturalGas Unmitigated	3.9700e-003	0.0340	0.0145	2.2000e-004		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003	0.0000	39.3179	39.3179	7.5000e-004	7.2000e-004	39.5515

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	736789	3.9700e-003	0.0340	0.0145	2.2000e-004		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003	0.0000	39.3179	39.3179	7.5000e-004	7.2000e-004	39.5515
Total		**3.9700e-003**	**0.0340**	**0.0145**	**2.2000e-004**		**2.7400e-003**	**2.7400e-003**		**2.7400e-003**	**2.7400e-003**	**0.0000**	**39.3179**	**39.3179**	**7.5000e-004**	**7.2000e-004**	**39.5515**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	736789	3.9700e-003	0.0340	0.0145	2.2000e-004		2.7400e-003	2.7400e-003		2.7400e-003	2.7400e-003	0.0000	39.3179	39.3179	7.5000e-004	7.2000e-004	39.5515
Total		**3.9700e-003**	**0.0340**	**0.0145**	**2.2000e-004**		**2.7400e-003**	**2.7400e-003**		**2.7400e-003**	**2.7400e-003**	**0.0000**	**39.3179**	**39.3179**	**7.5000e-004**	**7.2000e-004**	**39.5515**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	222649	70.9409	2.9300e-003	6.1000e-004	71.1947
Total		**70.9409**	**2.9300e-003**	**6.1000e-004**	**71.1947**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	222542	70.9066	2.9300e-003	6.1000e-004	71.1603
Total		**70.9066**	**2.9300e-003**	**6.1000e-004**	**71.1603**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2177	6.5600e-003	0.5684	3.0000e-005		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	0.9265	0.9265	9.0000e-004	0.0000	0.9490
Unmitigated	0.2332	6.5600e-003	0.5684	3.0000e-005		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	0.9265	0.9265	9.0000e-004	0.0000	0.9490

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	0.0172					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1987					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0172	6.5600e-003	0.5684	3.0000e-005		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	0.9265	0.9265	9.0000e-004	0.0000	0.9490
Total	**0.2332**	**6.5600e-003**	**0.5684**	**3.0000e-005**		**3.1300e-003**	**3.1300e-003**		**3.1300e-003**	**3.1300e-003**	**0.0000**	**0.9265**	**0.9265**	**9.0000e-004**	**0.0000**	**0.9490**

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	1.7200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1987					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0172	6.5600e-003	0.5684	3.0000e-005		3.1300e-003	3.1300e-003		3.1300e-003	3.1300e-003	0.0000	0.9265	0.9265	9.0000e-004	0.0000	0.9490
Total	**0.2177**	**6.5600e-003**	**0.5684**	**3.0000e-005**		**3.1300e-003**	**3.1300e-003**		**3.1300e-003**	**3.1300e-003**	**0.0000**	**0.9265**	**0.9265**	**9.0000e-004**	**0.0000**	**0.9490**

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	20.3124	0.0942	2.3700e-003	23.3745
Unmitigated	24.0010	0.1177	2.9500e-003	27.8236

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	3.58347 / 2.25915	24.0010	0.1177	2.9500e-003	27.8236
Total		**24.0010**	**0.1177**	**2.9500e-003**	**27.8236**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	2.86678 / 2.12134	20.3124	0.0942	2.3700e-003	23.3745
Total		**20.3124**	**0.0942**	**2.3700e-003**	**23.3745**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	5.1357	0.3035	0.0000	12.7234
Unmitigated	5.1357	0.3035	0.0000	12.7234

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	25.3	5.1357	0.3035	0.0000	12.7234
Total		**5.1357**	**0.3035**	**0.0000**	**12.7234**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	25.3	5.1357	0.3035	0.0000	12.7234
Total		**5.1357**	**0.3035**	**0.0000**	**12.7234**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	9.9120	0.0000	0.0000	9.9120

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	14	9.9120	0.0000	0.0000	9.9120
Total		**9.9120**	**0.0000**	**0.0000**	**9.9120**

Artesia HO-O Zone Implementation - Area B

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	55.00	Dwelling Unit	1.82	55,000.00	157

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction hypothesized to start in March 2020 for model purposes.
Project modeled to be operational in 2021.

Land Use - Combined Group B lot area less one > 0.5-acre fully-developed parcel.
Dimensions - L.A. Co. Assessor.

Construction Phase - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment - Defaults used.

Grading - Assumes no cut/fill. Terrain is flat.

Off-road Equipment - Estimated real-time use: equipt not expected to be running continuously for 8 hrs/day.

Off-road Equipment - Estimated real-time use: equipt not expected to be running continuously for 8 hrs/day.

Off-road Equipment - Cranes anticipated to be used approx 14 days over 200-day consruction period.

30 days/200 days = 0.1 = fractional crane use over whole period.
Off-road Equipment - Defaults used.

Demolition - Extg bldg square footage obtained from L.A. Co. Assessor.

Trips and VMT - Defaults used.

On-road Fugitive Dust - Defaults used.

Architectural Coating - Defaults used.

Woodstoves - No fireplaces/wood stoves.

Road Dust - Defaults used.

Vehicle Emission Factors - Defaults used.

Vehicle Emission Factors - Defaults used.

Vehicle Emission Factors - Defaults used.

Consumer Products - Defaults used.

Area Coating - Defaults used.

Energy Use -

Water And Wastewater - Defaults used.

Solid Waste - Defaults used.

Land Use Change - No natural vegetation changes - area previously developed, urban.

Sequestration - Assumes 1/4 tree/unit.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Density overall increased from ~ 15/acre to 30/acre.

Area Mitigation - Zero VOC coatings indicated to be 5 g/l or less - used Dunn-Edwards "Everest" zero-VOC paint as example.

Energy Mitigation - Required PV installation per 2018 Title 24 Multifamily Residential on-site solar provision.
See Cal. Energy Comm, Residential Compliance Manual, December 2018, p. 7-1 for calculating PV system size.

Water Mitigation - Defaults used; assume Ti. 24 compliance for low-flow fixtures.

Artesia HO-O Zone Implementation - Area B - Los Angeles-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	5
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	5
tblFireplaces	NumberGas	46.75	0.00
tblFireplaces	NumberWood	2.75	0.00
tblGrading	AcresOfGrading	0.75	1.00
tblLandUse	LotAcreage	1.45	1.82
tblOffRoadEquipment	UsageHours	6.00	0.10
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblSequestration	NumberOfNewTrees	0.00	14.00
tblWoodstoves	NumberCatalytic	2.75	0.00
tblWoodstoves	NumberNoncatalytic	2.75	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.2079	21.7077	15.3858	0.0276	5.1362	1.1560	5.8047	2.5636	1.0795	3.1787	0.0000	2,689.1653	2,689.1653	0.6163	0.0000	2,704.5736
2021	34.6681	10.7601	13.2004	0.0239	0.4855	0.5439	1.0295	0.1296	0.5317	0.6613	0.0000	2,209.5865	2,209.5865	0.4155	0.0000	2,215.7648
Maximum	**34.6681**	**21.7077**	**15.3858**	**0.0276**	**5.1362**	**1.1560**	**5.8047**	**2.5636**	**1.0795**	**3.1787**	**0.0000**	**2,689.1653**	**2,689.1653**	**0.6163**	**0.0000**	**2,704.5736**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.2079	21.7077	15.3858	0.0276	2.3605	1.1560	3.0290	1.1667	1.0795	1.7817	0.0000	2,689.1653	2,689.1653	0.6163	0.0000	2,704.5736
2021	34.6681	10.7601	13.2004	0.0239	0.4855	0.5439	1.0295	0.1296	0.5317	0.6613	0.0000	2,209.5865	2,209.5865	0.4155	0.0000	2,215.7648
Maximum	**34.6681**	**21.7077**	**15.3858**	**0.0276**	**2.3605**	**1.1560**	**3.0290**	**1.1667**	**1.0795**	**1.7817**	**0.0000**	**2,689.1653**	**2,689.1653**	**0.6163**	**0.0000**	**2,704.5736**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**49.38**	**0.00**	**40.62**	**51.87**	**0.00**	**36.38**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3211	0.0525	4.5474	2.4000e-004		0.0251	0.0251		0.0251	0.0251	0.0000	8.1704	8.1704	7.9200e-003	0.0000	8.3683
Energy	0.0218	0.1860	0.0792	1.1900e-003		0.0150	0.0150		0.0150	0.0150		237.4825	237.4825	4.5500e-003	4.3500e-003	238.8937
Mobile	0.7095	3.3410	9.7403	0.0336	2.6577	0.0277	2.6853	0.7113	0.0258	0.7371		3,415.9015	3,415.9015	0.1774		3,420.3357
Total	**2.0524**	**3.5795**	**14.3669**	**0.0350**	**2.6577**	**0.0678**	**2.7254**	**0.7113**	**0.0659**	**0.7772**	**0.0000**	**3,661.5543**	**3,661.5543**	**0.1898**	**4.3500e-003**	**3,667.5977**

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	1.2362	0.0525	4.5474	2.4000e-004		0.0251	0.0251		0.0251	0.0251	0.0000	8.1704	8.1704	7.9200e-003	0.0000	8.3683
Energy	0.0218	0.1860	0.0792	1.1900e-003		0.0150	0.0150		0.0150	0.0150		237.4825	237.4825	4.5500e-003	4.3500e-003	238.8937
Mobile	0.6428	2.9244	8.0131	0.0270	2.1093	0.0224	2.1318	0.5645	0.0209	0.5854		2,748.0757	2,748.0757	0.1459		2,751.7237
Total	**1.9007**	**3.1629**	**12.6397**	**0.0285**	**2.1093**	**0.0625**	**2.1719**	**0.5645**	**0.0610**	**0.6256**	**0.0000**	**2,993.7285**	**2,993.7285**	**0.1584**	**4.3500e-003**	**2,998.9857**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**7.39**	**11.64**	**12.02**	**18.78**	**20.63**	**7.75**	**20.31**	**20.63**	**7.43**	**19.51**	**0.00**	**18.24**	**18.24**	**16.57**	**0.00**	**18.23**

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	3/2/2020	3/27/2020	5	20	
2	Site Preparation	Site Preparation	3/28/2020	3/31/2020	5	2	
3	Grading	Grading	4/1/2020	4/6/2020	5	4	
4	Building Construction	Building Construction	4/7/2020	1/11/2021	5	200	
5	Paving	Paving	1/12/2021	1/25/2021	5	10	
6	Architectural Coating	Architectural Coating	1/26/2021	2/8/2021	5	10	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 111,375; Residential Outdoor: 37,125; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Artesia HO-O Zone Implementation - Area B - Los Angeles-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	0.10	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Site Preparation	Graders	1	6.00	187	0.41
Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Welders	3	8.00	46	0.45

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
Architectural Coating	1	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	40.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	50.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	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
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5366	0.0000	0.5366	0.0813	0.0000	0.0813			0.0000			0.0000
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761		2,322.3127	2,322.3127	0.5970		2,337.2363
Total	**2.1262**	**20.9463**	**14.6573**	**0.0241**	**0.5366**	**1.1525**	**1.6891**	**0.0813**	**1.0761**	**1.1574**		**2,322.3127**	**2,322.3127**	**0.5970**		**2,337.2363**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0218	0.7189	0.1593	1.9700e-003	0.0437	2.2900e-003	0.0460	0.0120	2.2000e-003	0.0142		213.9580	213.9580	0.0146		214.3220
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	0.0598	0.0426	0.5692	1.5400e-003	0.1453	1.2100e-003	0.1465	0.0385	1.1200e-003	0.0397		152.8947	152.8947	4.8200e-003		153.0152
Total	**0.0817**	**0.7614**	**0.7285**	**3.5100e-003**	**0.1890**	**3.5000e-003**	**0.1925**	**0.0505**	**3.3200e-003**	**0.0538**		**366.8526**	**366.8526**	**0.0194**		**367.3372**

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					0.2415	0.0000	0.2415	0.0366	0.0000	0.0366			0.0000			0.0000
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761	0.0000	2,322.3127	2,322.3127	0.5970		2,337.2363
Total	**2.1262**	**20.9463**	**14.6573**	**0.0241**	**0.2415**	**1.1525**	**1.3940**	**0.0366**	**1.0761**	**1.1127**	**0.0000**	**2,322.3127**	**2,322.3127**	**0.5970**		**2,337.2363**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0218	0.7189	0.1593	1.9700e-003	0.0437	2.2900e-003	0.0460	0.0120	2.2000e-003	0.0142		213.9580	213.9580	0.0146		214.3220
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	0.0598	0.0426	0.5692	1.5400e-003	0.1453	1.2100e-003	0.1465	0.0385	1.1200e-003	0.0397		152.8947	152.8947	4.8200e-003		153.0152
Total	**0.0817**	**0.7614**	**0.7285**	**3.5100e-003**	**0.1890**	**3.5000e-003**	**0.1925**	**0.0505**	**3.3200e-003**	**0.0538**		**366.8526**	**366.8526**	**0.0194**		**367.3372**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.0468	0.0000	5.0468	2.5399	0.0000	2.5399			0.0000			0.0000
Off-Road	1.3236	14.8222	6.1693	0.0137		0.6677	0.6677		0.6143	0.6143		1,328.1223	1,328.1223	0.4295		1,338.8608
Total	**1.3236**	**14.8222**	**6.1693**	**0.0137**	**5.0468**	**0.6677**	**5.7146**	**2.5399**	**0.6143**	**3.1543**		**1,328.1223**	**1,328.1223**	**0.4295**		**1,338.8608**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		94.0890	94.0890	2.9700e-003		94.1632
Total	**0.0368**	**0.0262**	**0.3503**	**9.4000e-004**	**0.0894**	**7.5000e-004**	**0.0902**	**0.0237**	**6.9000e-004**	**0.0244**		**94.0890**	**94.0890**	**2.9700e-003**		**94.1632**

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					2.2711	0.0000	2.2711	1.1430	0.0000	1.1430			0.0000			0.0000
Off-Road	1.3236	14.8222	6.1693	0.0137		0.6677	0.6677		0.6143	0.6143	0.0000	1,328.1223	1,328.1223	0.4295		1,338.8608
Total	**1.3236**	**14.8222**	**6.1693**	**0.0137**	**2.2711**	**0.6677**	**2.9388**	**1.1430**	**0.6143**	**1.7573**	**0.0000**	**1,328.1223**	**1,328.1223**	**0.4295**		**1,338.8608**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		94.0890	94.0890	2.9700e-003		94.1632
Total	**0.0368**	**0.0262**	**0.3503**	**9.4000e-004**	**0.0894**	**7.5000e-004**	**0.0902**	**0.0237**	**6.9000e-004**	**0.0244**		**94.0890**	**94.0890**	**2.9700e-003**		**94.1632**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	1.3236	14.8222	6.1693	0.0137		0.6677	0.6677		0.6143	0.6143		1,328.1223	1,328.1223	0.4295		1,338.8608
Total	**1.3236**	**14.8222**	**6.1693**	**0.0137**	**4.9143**	**0.6677**	**5.5820**	**2.5256**	**0.6143**	**3.1399**		**1,328.1223**	**1,328.1223**	**0.4295**		**1,338.8608**

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		94.0890	94.0890	2.9700e-003		94.1632
Total	**0.0368**	**0.0262**	**0.3503**	**9.4000e-004**	**0.0894**	**7.5000e-004**	**0.0902**	**0.0237**	**6.9000e-004**	**0.0244**		**94.0890**	**94.0890**	**2.9700e-003**		**94.1632**

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					2.2114	0.0000	2.2114	1.1365	0.0000	1.1365			0.0000			0.0000
Off-Road	1.3236	14.8222	6.1693	0.0137		0.6677	0.6677		0.6143	0.6143	0.0000	1,328.1223	1,328.1223	0.4295		1,338.8608
Total	**1.3236**	**14.8222**	**6.1693**	**0.0137**	**2.2114**	**0.6677**	**2.8792**	**1.1365**	**0.6143**	**1.7509**	**0.0000**	**1,328.1223**	**1,328.1223**	**0.4295**		**1,338.8608**

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		94.0890	94.0890	2.9700e-003		94.1632
Total	**0.0368**	**0.0262**	**0.3503**	**9.4000e-004**	**0.0894**	**7.5000e-004**	**0.0902**	**0.0237**	**6.9000e-004**	**0.0244**		**94.0890**	**94.0890**	**2.9700e-003**		**94.1632**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6961	10.8120	11.6280	0.0178		0.6320	0.6320		0.6180	0.6180		1,589.0521	1,589.0521	0.2382		1,595.0073
Total	**1.6961**	**10.8120**	**11.6280**	**0.0178**		**0.6320**	**0.6320**		**0.6180**	**0.6180**		**1,589.0521**	**1,589.0521**	**0.2382**		**1,595.0073**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0213	0.6382	0.1672	1.5600e-003	0.0384	3.0000e-003	0.0414	0.0111	2.8700e-003	0.0139		166.2148	166.2148	0.0101		166.4684
Worker	0.1841	0.1310	1.7514	4.7200e-003	0.4471	3.7400e-003	0.4508	0.1186	3.4400e-003	0.1220		470.4452	470.4452	0.0148		470.8160
Total	**0.2054**	**0.7692**	**1.9186**	**6.2800e-003**	**0.4855**	**6.7400e-003**	**0.4923**	**0.1296**	**6.3100e-003**	**0.1360**		**636.6600**	**636.6600**	**0.0250**		**637.2843**

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	1.6961	10.8120	11.6280	0.0178		0.6320	0.6320		0.6180	0.6180	0.0000	1,589.0521	1,589.0521	0.2382		1,595.0073
Total	**1.6961**	**10.8120**	**11.6280**	**0.0178**		**0.6320**	**0.6320**		**0.6180**	**0.6180**	**0.0000**	**1,589.0521**	**1,589.0521**	**0.2382**		**1,595.0073**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0213	0.6382	0.1672	1.5600e-003	0.0384	3.0000e-003	0.0414	0.0111	2.8700e-003	0.0139		166.2148	166.2148	0.0101		166.4684
Worker	0.1841	0.1310	1.7514	4.7200e-003	0.4471	3.7400e-003	0.4508	0.1186	3.4400e-003	0.1220		470.4452	470.4452	0.0148		470.8160
Total	**0.2054**	**0.7692**	**1.9186**	**6.2800e-003**	**0.4855**	**6.7400e-003**	**0.4923**	**0.1296**	**6.3100e-003**	**0.1360**		**636.6600**	**636.6600**	**0.0250**		**637.2843**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5080	10.0597	11.4370	0.0178		0.5391	0.5391		0.5272	0.5272		1,589.1502	1,589.1502	0.2240		1,594.7501
Total	**1.5080**	**10.0597**	**11.4370**	**0.0178**		**0.5391**	**0.5391**		**0.5272**	**0.5272**		**1,589.1502**	**1,589.1502**	**0.2240**		**1,594.7501**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0182	0.5825	0.1523	1.5400e-003	0.0384	1.1900e-003	0.0396	0.0111	1.1400e-003	0.0122		164.9284	164.9284	9.7200e-003		165.1713
Worker	0.1715	0.1179	1.6111	4.5700e-003	0.4471	3.6100e-003	0.4507	0.1186	3.3300e-003	0.1219		455.5079	455.5079	0.0134		455.8435
Total	**0.1897**	**0.7004**	**1.7634**	**6.1100e-003**	**0.4855**	**4.8000e-003**	**0.4903**	**0.1296**	**4.4700e-003**	**0.1341**		**620.4363**	**620.4363**	**0.0231**		**621.0148**

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	1.5080	10.0597	11.4370	0.0178		0.5391	0.5391		0.5272	0.5272	0.0000	1,589.1502	1,589.1502	0.2240		1,594.7501
Total	**1.5080**	**10.0597**	**11.4370**	**0.0178**		**0.5391**	**0.5391**		**0.5272**	**0.5272**	**0.0000**	**1,589.1502**	**1,589.1502**	**0.2240**		**1,594.7501**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0182	0.5825	0.1523	1.5400e-003	0.0384	1.1900e-003	0.0396	0.0111	1.1400e-003	0.0122		164.9284	164.9284	9.7200e-003		165.1713
Worker	0.1715	0.1179	1.6111	4.5700e-003	0.4471	3.6100e-003	0.4507	0.1186	3.3300e-003	0.1219		455.5079	455.5079	0.0134		455.8435
Total	**0.1897**	**0.7004**	**1.7634**	**6.1100e-003**	**0.4855**	**4.8000e-003**	**0.4903**	**0.1296**	**4.4700e-003**	**0.1341**		**620.4363**	**620.4363**	**0.0231**		**621.0148**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830		1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.7739**	**7.7422**	**8.8569**	**0.0135**		**0.4153**	**0.4153**		**0.3830**	**0.3830**		**1,296.8664**	**1,296.8664**	**0.4111**		**1,307.1442**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0557	0.0383	0.5236	1.4900e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		148.0401	148.0401	4.3600e-003		148.1491
Total	**0.0557**	**0.0383**	**0.5236**	**1.4900e-003**	**0.1453**	**1.1700e-003**	**0.1465**	**0.0385**	**1.0800e-003**	**0.0396**		**148.0401**	**148.0401**	**4.3600e-003**		**148.1491**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830	0.0000	1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.7739**	**7.7422**	**8.8569**	**0.0135**		**0.4153**	**0.4153**		**0.3830**	**0.3830**	**0.0000**	**1,296.8664**	**1,296.8664**	**0.4111**		**1,307.1442**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0557	0.0383	0.5236	1.4900e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		148.0401	148.0401	4.3600e-003		148.1491
Total	**0.0557**	**0.0383**	**0.5236**	**1.4900e-003**	**0.1453**	**1.1700e-003**	**0.1465**	**0.0385**	**1.0800e-003**	**0.0396**		**148.0401**	**148.0401**	**4.3600e-003**		**148.1491**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.4149					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**34.6338**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0343	0.0236	0.3222	9.1000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		91.1016	91.1016	2.6800e-003		91.1687
Total	**0.0343**	**0.0236**	**0.3222**	**9.1000e-004**	**0.0894**	**7.2000e-004**	**0.0901**	**0.0237**	**6.7000e-004**	**0.0244**		**91.1016**	**91.1016**	**2.6800e-003**		**91.1687**

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	34.4149					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**34.6338**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0343	0.0236	0.3222	9.1000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		91.1016	91.1016	2.6800e-003		91.1687
Total	**0.0343**	**0.0236**	**0.3222**	**9.1000e-004**	**0.0894**	**7.2000e-004**	**0.0901**	**0.0237**	**6.7000e-004**	**0.0244**		**91.1016**	**91.1016**	**2.6800e-003**		**91.1687**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6428	2.9244	8.0131	0.0270	2.1093	0.0224	2.1318	0.5645	0.0209	0.5854		2,748.0757	2,748.0757	0.1459		2,751.7237
Unmitigated	0.7095	3.3410	9.7403	0.0336	2.6577	0.0277	2.6853	0.7113	0.0258	0.7371		3,415.9015	3,415.9015	0.1774		3,420.3357

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	365.75	351.45	322.30	1,221,632	969,590
Total	365.75	351.45	322.30	1,221,632	969,590

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0218	0.1860	0.0792	1.1900e-003		0.0150	0.0150		0.0150	0.0150		237.4825	237.4825	4.5500e-003	4.3500e-003	238.8937
NaturalGas Unmitigated	0.0218	0.1860	0.0792	1.1900e-003		0.0150	0.0150		0.0150	0.0150		237.4825	237.4825	4.5500e-003	4.3500e-003	238.8937

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2018.6	0.0218	0.1860	0.0792	1.1900e-003		0.0150	0.0150		0.0150	0.0150		237.4825	237.4825	4.5500e-003	4.3500e-003	238.8937
Total		**0.0218**	**0.1860**	**0.0792**	**1.1900e-003**		**0.0150**	**0.0150**		**0.0150**	**0.0150**		**237.4825**	**237.4825**	**4.5500e-003**	**4.3500e-003**	**238.8937**

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 Mid Rise	2.0186	0.0218	0.1860	0.0792	1.1900e-003		0.0150	0.0150		0.0150	0.0150		237.4825	237.4825	4.5500e-003	4.3500e-003	238.8937
Total		**0.0218**	**0.1860**	**0.0792**	**1.1900e-003**		**0.0150**	**0.0150**		**0.0150**	**0.0150**		**237.4825**	**237.4825**	**4.5500e-003**	**4.3500e-003**	**238.8937**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.2362	0.0525	4.5474	2.4000e-004		0.0251	0.0251		0.0251	0.0251	0.0000	8.1704	8.1704	7.9200e-003	0.0000	8.3683
Unmitigated	1.3211	0.0525	4.5474	2.4000e-004		0.0251	0.0251		0.0251	0.0251	0.0000	8.1704	8.1704	7.9200e-003	0.0000	8.3683

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	0.0943					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0890					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1378	0.0525	4.5474	2.4000e-004		0.0251	0.0251		0.0251	0.0251		8.1704	8.1704	7.9200e-003		8.3683
Total	**1.3211**	**0.0525**	**4.5474**	**2.4000e-004**		**0.0251**	**0.0251**		**0.0251**	**0.0251**	**0.0000**	**8.1704**	**8.1704**	**7.9200e-003**	**0.0000**	**8.3683**

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	9.4300e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0890					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1378	0.0525	4.5474	2.4000e-004		0.0251	0.0251		0.0251	0.0251		8.1704	8.1704	7.9200e-003		8.3683
Total	**1.2362**	**0.0525**	**4.5474**	**2.4000e-004**		**0.0251**	**0.0251**		**0.0251**	**0.0251**	**0.0000**	**8.1704**	**8.1704**	**7.9200e-003**	**0.0000**	**8.3683**

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

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Artesia HO-O Zone Implementation - Area B

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	55.00	Dwelling Unit	1.82	55,000.00	157

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction hypothesized to start in March 2020 for model purposes.
Project modeled to be operational in 2021.

Land Use - Combined Group B lot area less one > 0.5-acre fully-developed parcel.
Dimensions - L.A. Co. Assessor.

Construction Phase - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment - Defaults used.

Grading - Assumes no cut/fill. Terrain is flat.

Off-road Equipment - Estimated real-time use: equipt not expected to be running continuously for 8 hrs/day.

Off-road Equipment - Estimated real-time use: equipt not expected to be running continuously for 8 hrs/day.

Off-road Equipment - Cranes anticipated to be used approx 14 days over 200-day consruction period.

30 days/200 days = 0.1 = fractional crane use over whole period.
Off-road Equipment - Defaults used.

Demolition - Extg bldg square footage obtained from L.A. Co. Assessor.

Trips and VMT - Defaults used.

On-road Fugitive Dust - Defaults used.

Architectural Coating - Defaults used.

Woodstoves - No fireplaces/wood stoves.

Road Dust - Defaults used.

Vehicle Emission Factors - Defaults used.

Vehicle Emission Factors - Defaults used.

Vehicle Emission Factors - Defaults used.

Consumer Products - Defaults used.

Area Coating - Defaults used.

Energy Use -

Water And Wastewater - Defaults used.

Solid Waste - Defaults used.

Land Use Change - No natural vegetation changes - area previously developed, urban.

Sequestration - Assumes 1/4 tree/unit.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Density overall increased from ~ 15/acre to 30/acre.

Area Mitigation - Zero VOC coatings indicated to be 5 g/l or less - used Dunn-Edwards "Everest" zero-VOC paint as example.

Energy Mitigation - Required PV installation per 2018 Title 24 Multifamily Residential on-site solar provision.
See Cal. Energy Comm, Residential Compliance Manual, December 2018, p. 7-1 for calculating PV system size.

Water Mitigation - Defaults used; assume Ti. 24 compliance for low-flow fixtures.

Artesia HO-O Zone Implementation - Area B - Los Angeles-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	5
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	5
tblFireplaces	NumberGas	46.75	0.00
tblFireplaces	NumberWood	2.75	0.00
tblGrading	AcresOfGrading	0.75	1.00
tblLandUse	LotAcreage	1.45	1.82
tblOffRoadEquipment	UsageHours	6.00	0.10
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblSequestration	NumberOfNewTrees	0.00	14.00
tblWoodstoves	NumberCatalytic	2.75	0.00
tblWoodstoves	NumberNoncatalytic	2.75	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.2150	21.7216	15.3479	0.0275	5.1362	1.1560	5.8047	2.5636	1.0795	3.1787	0.0000	2,676.5508	2,676.5508	0.6166	0.0000	2,691.9653
2021	34.6719	10.7715	13.0785	0.0236	0.4855	0.5440	1.0295	0.1296	0.5317	0.6614	0.0000	2,178.4579	2,178.4579	0.4152	0.0000	2,184.6322
Maximum	**34.6719**	**21.7216**	**15.3479**	**0.0275**	**5.1362**	**1.1560**	**5.8047**	**2.5636**	**1.0795**	**3.1787**	**0.0000**	**2,676.5508**	**2,676.5508**	**0.6166**	**0.0000**	**2,691.9653**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.2150	21.7216	15.3479	0.0275	2.3605	1.1560	3.0290	1.1667	1.0795	1.7817	0.0000	2,676.5508	2,676.5508	0.6166	0.0000	2,691.9653
2021	34.6719	10.7715	13.0785	0.0236	0.4855	0.5440	1.0295	0.1296	0.5317	0.6614	0.0000	2,178.4579	2,178.4579	0.4152	0.0000	2,184.6322
Maximum	**34.6719**	**21.7216**	**15.3479**	**0.0275**	**2.3605**	**1.1560**	**3.0290**	**1.1667**	**1.0795**	**1.7817**	**0.0000**	**2,676.5508**	**2,676.5508**	**0.6166**	**0.0000**	**2,691.9653**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**49.38**	**0.00**	**40.62**	**51.87**	**0.00**	**36.38**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3211	0.0525	4.5474	2.4000e-004		0.0251	0.0251		0.0251	0.0251	0.0000	8.1704	8.1704	7.9200e-003	0.0000	8.3683
Energy	0.0218	0.1860	0.0792	1.1900e-003		0.0150	0.0150		0.0150	0.0150		237.4825	237.4825	4.5500e-003	4.3500e-003	238.8937
Mobile	0.6895	3.4291	9.2427	0.0320	2.6577	0.0278	2.6855	0.7113	0.0260	0.7372		3,250.5970	3,250.5970	0.1766		3,255.0114
Total	**2.0323**	**3.6676**	**13.8693**	**0.0334**	**2.6577**	**0.0679**	**2.7256**	**0.7113**	**0.0661**	**0.7773**	**0.0000**	**3,496.2498**	**3,496.2498**	**0.1891**	**4.3500e-003**	**3,502.2734**

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	1.2362	0.0525	4.5474	2.4000e-004		0.0251	0.0251		0.0251	0.0251	0.0000	8.1704	8.1704	7.9200e-003	0.0000	8.3683
Energy	0.0218	0.1860	0.0792	1.1900e-003		0.0150	0.0150		0.0150	0.0150		237.4825	237.4825	4.5500e-003	4.3500e-003	238.8937
Mobile	0.6243	2.9880	7.6757	0.0257	2.1093	0.0226	2.1319	0.5645	0.0211	0.5856		2,613.4826	2,613.4826	0.1460		2,617.1317
Total	**1.8823**	**3.2266**	**12.3023**	**0.0271**	**2.1093**	**0.0627**	**2.1720**	**0.5645**	**0.0612**	**0.6257**	**0.0000**	**2,859.1354**	**2,859.1354**	**0.1584**	**4.3500e-003**	**2,864.3937**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**7.38**	**12.03**	**11.30**	**18.75**	**20.63**	**7.73**	**20.31**	**20.63**	**7.43**	**19.51**	**0.00**	**18.22**	**18.22**	**16.20**	**0.00**	**18.21**

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	3/2/2020	3/27/2020	5	20	
2	Site Preparation	Site Preparation	3/28/2020	3/31/2020	5	2	
3	Grading	Grading	4/1/2020	4/6/2020	5	4	
4	Building Construction	Building Construction	4/7/2020	1/11/2021	5	200	
5	Paving	Paving	1/12/2021	1/25/2021	5	10	
6	Architectural Coating	Architectural Coating	1/26/2021	2/8/2021	5	10	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 111,375; Residential Outdoor: 37,125; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Artesia HO-O Zone Implementation - Area B - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	0.10	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Site Preparation	Graders	1	6.00	187	0.41
Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Welders	3	8.00	46	0.45

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
Architectural Coating	1	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	40.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	50.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	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
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5366	0.0000	0.5366	0.0813	0.0000	0.0813			0.0000			0.0000
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761		2,322.3127	2,322.3127	0.5970		2,337.2363
Total	**2.1262**	**20.9463**	**14.6573**	**0.0241**	**0.5366**	**1.1525**	**1.6891**	**0.0813**	**1.0761**	**1.1574**		**2,322.3127**	**2,322.3127**	**0.5970**		**2,337.2363**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0224	0.7282	0.1693	1.9400e-003	0.0437	2.3300e-003	0.0460	0.0120	2.2300e-003	0.0142		210.2735	210.2735	0.0151		210.6508
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	0.0664	0.0471	0.5213	1.4500e-003	0.1453	1.2100e-003	0.1465	0.0385	1.1200e-003	0.0397		143.9647	143.9647	4.5400e-003		144.0781
Total	**0.0888**	**0.7753**	**0.6906**	**3.3900e-003**	**0.1890**	**3.5400e-003**	**0.1926**	**0.0505**	**3.3500e-003**	**0.0539**		**354.2382**	**354.2382**	**0.0196**		**354.7289**

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					0.2415	0.0000	0.2415	0.0366	0.0000	0.0366			0.0000			0.0000
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761	0.0000	2,322.3127	2,322.3127	0.5970		2,337.2363
Total	**2.1262**	**20.9463**	**14.6573**	**0.0241**	**0.2415**	**1.1525**	**1.3940**	**0.0366**	**1.0761**	**1.1127**	**0.0000**	**2,322.3127**	**2,322.3127**	**0.5970**		**2,337.2363**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0224	0.7282	0.1693	1.9400e-003	0.0437	2.3300e-003	0.0460	0.0120	2.2300e-003	0.0142		210.2735	210.2735	0.0151		210.6508
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	0.0664	0.0471	0.5213	1.4500e-003	0.1453	1.2100e-003	0.1465	0.0385	1.1200e-003	0.0397		143.9647	143.9647	4.5400e-003		144.0781
Total	**0.0888**	**0.7753**	**0.6906**	**3.3900e-003**	**0.1890**	**3.5400e-003**	**0.1926**	**0.0505**	**3.3500e-003**	**0.0539**		**354.2382**	**354.2382**	**0.0196**		**354.7289**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.0468	0.0000	5.0468	2.5399	0.0000	2.5399			0.0000			0.0000
Off-Road	1.3236	14.8222	6.1693	0.0137		0.6677	0.6677		0.6143	0.6143		1,328.1223	1,328.1223	0.4295		1,338.8608
Total	**1.3236**	**14.8222**	**6.1693**	**0.0137**	**5.0468**	**0.6677**	**5.7146**	**2.5399**	**0.6143**	**3.1543**		**1,328.1223**	**1,328.1223**	**0.4295**		**1,338.8608**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0409	0.0290	0.3208	8.9000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		88.5936	88.5936	2.7900e-003		88.6634
Total	**0.0409**	**0.0290**	**0.3208**	**8.9000e-004**	**0.0894**	**7.5000e-004**	**0.0902**	**0.0237**	**6.9000e-004**	**0.0244**		**88.5936**	**88.5936**	**2.7900e-003**		**88.6634**

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					2.2711	0.0000	2.2711	1.1430	0.0000	1.1430			0.0000			0.0000
Off-Road	1.3236	14.8222	6.1693	0.0137		0.6677	0.6677		0.6143	0.6143	0.0000	1,328.1223	1,328.1223	0.4295		1,338.8608
Total	**1.3236**	**14.8222**	**6.1693**	**0.0137**	**2.2711**	**0.6677**	**2.9388**	**1.1430**	**0.6143**	**1.7573**	**0.0000**	**1,328.1223**	**1,328.1223**	**0.4295**		**1,338.8608**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0409	0.0290	0.3208	8.9000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		88.5936	88.5936	2.7900e-003		88.6634
Total	**0.0409**	**0.0290**	**0.3208**	**8.9000e-004**	**0.0894**	**7.5000e-004**	**0.0902**	**0.0237**	**6.9000e-004**	**0.0244**		**88.5936**	**88.5936**	**2.7900e-003**		**88.6634**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	1.3236	14.8222	6.1693	0.0137		0.6677	0.6677		0.6143	0.6143		1,328.1223	1,328.1223	0.4295		1,338.8608
Total	**1.3236**	**14.8222**	**6.1693**	**0.0137**	**4.9143**	**0.6677**	**5.5820**	**2.5256**	**0.6143**	**3.1399**		**1,328.1223**	**1,328.1223**	**0.4295**		**1,338.8608**

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0409	0.0290	0.3208	8.9000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		88.5936	88.5936	2.7900e-003		88.6634
Total	**0.0409**	**0.0290**	**0.3208**	**8.9000e-004**	**0.0894**	**7.5000e-004**	**0.0902**	**0.0237**	**6.9000e-004**	**0.0244**		**88.5936**	**88.5936**	**2.7900e-003**		**88.6634**

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					2.2114	0.0000	2.2114	1.1365	0.0000	1.1365			0.0000			0.0000
Off-Road	1.3236	14.8222	6.1693	0.0137		0.6677	0.6677		0.6143	0.6143	0.0000	1,328.1223	1,328.1223	0.4295		1,338.8608
Total	**1.3236**	**14.8222**	**6.1693**	**0.0137**	**2.2114**	**0.6677**	**2.8792**	**1.1365**	**0.6143**	**1.7509**	**0.0000**	**1,328.1223**	**1,328.1223**	**0.4295**		**1,338.8608**

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0409	0.0290	0.3208	8.9000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		88.5936	88.5936	2.7900e-003		88.6634
Total	**0.0409**	**0.0290**	**0.3208**	**8.9000e-004**	**0.0894**	**7.5000e-004**	**0.0902**	**0.0237**	**6.9000e-004**	**0.0244**		**88.5936**	**88.5936**	**2.7900e-003**		**88.6634**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6961	10.8120	11.6280	0.0178		0.6320	0.6320		0.6180	0.6180		1,589.0521	1,589.0521	0.2382		1,595.0073
Total	**1.6961**	**10.8120**	**11.6280**	**0.0178**		**0.6320**	**0.6320**		**0.6180**	**0.6180**		**1,589.0521**	**1,589.0521**	**0.2382**		**1,595.0073**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0223	0.6381	0.1844	1.5100e-003	0.0384	3.0500e-003	0.0415	0.0111	2.9200e-003	0.0140		161.6694	161.6694	0.0108		161.9397
Worker	0.2044	0.1450	1.6040	4.4500e-003	0.4471	3.7400e-003	0.4508	0.1186	3.4400e-003	0.1220		442.9682	442.9682	0.0140		443.3172
Total	**0.2267**	**0.7831**	**1.7885**	**5.9600e-003**	**0.4855**	**6.7900e-003**	**0.4923**	**0.1296**	**6.3600e-003**	**0.1360**		**604.6376**	**604.6376**	**0.0248**		**605.2569**

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	1.6961	10.8120	11.6280	0.0178		0.6320	0.6320		0.6180	0.6180	0.0000	1,589.0521	1,589.0521	0.2382		1,595.0073
Total	**1.6961**	**10.8120**	**11.6280**	**0.0178**		**0.6320**	**0.6320**		**0.6180**	**0.6180**	**0.0000**	**1,589.0521**	**1,589.0521**	**0.2382**		**1,595.0073**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0223	0.6381	0.1844	1.5100e-003	0.0384	3.0500e-003	0.0415	0.0111	2.9200e-003	0.0140		161.6694	161.6694	0.0108		161.9397
Worker	0.2044	0.1450	1.6040	4.4500e-003	0.4471	3.7400e-003	0.4508	0.1186	3.4400e-003	0.1220		442.9682	442.9682	0.0140		443.3172
Total	**0.2267**	**0.7831**	**1.7885**	**5.9600e-003**	**0.4855**	**6.7900e-003**	**0.4923**	**0.1296**	**6.3600e-003**	**0.1360**		**604.6376**	**604.6376**	**0.0248**		**605.2569**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5080	10.0597	11.4370	0.0178		0.5391	0.5391		0.5272	0.5272		1,589.1502	1,589.1502	0.2240		1,594.7501
Total	**1.5080**	**10.0597**	**11.4370**	**0.0178**		**0.5391**	**0.5391**		**0.5272**	**0.5272**		**1,589.1502**	**1,589.1502**	**0.2240**		**1,594.7501**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0192	0.5813	0.1685	1.5000e-003	0.0384	1.2300e-003	0.0396	0.0111	1.1800e-003	0.0122		160.4073	160.4073	0.0104		160.6662
Worker	0.1907	0.1305	1.4730	4.3000e-003	0.4471	3.6100e-003	0.4507	0.1186	3.3300e-003	0.1219		428.9004	428.9004	0.0126		429.2160
Total	**0.2099**	**0.7118**	**1.6415**	**5.8000e-003**	**0.4855**	**4.8400e-003**	**0.4904**	**0.1296**	**4.5100e-003**	**0.1341**		**589.3078**	**589.3078**	**0.0230**		**589.8822**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5080	10.0597	11.4370	0.0178		0.5391	0.5391		0.5272	0.5272	0.0000	1,589.1502	1,589.1502	0.2240		1,594.7501
Total	**1.5080**	**10.0597**	**11.4370**	**0.0178**		**0.5391**	**0.5391**		**0.5272**	**0.5272**	**0.0000**	**1,589.1502**	**1,589.1502**	**0.2240**		**1,594.7501**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0192	0.5813	0.1685	1.5000e-003	0.0384	1.2300e-003	0.0396	0.0111	1.1800e-003	0.0122		160.4073	160.4073	0.0104		160.6662
Worker	0.1907	0.1305	1.4730	4.3000e-003	0.4471	3.6100e-003	0.4507	0.1186	3.3300e-003	0.1219		428.9004	428.9004	0.0126		429.2160
Total	**0.2099**	**0.7118**	**1.6415**	**5.8000e-003**	**0.4855**	**4.8400e-003**	**0.4904**	**0.1296**	**4.5100e-003**	**0.1341**		**589.3078**	**589.3078**	**0.0230**		**589.8822**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830		1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.7739**	**7.7422**	**8.8569**	**0.0135**		**0.4153**	**0.4153**		**0.3830**	**0.3830**		**1,296.8664**	**1,296.8664**	**0.4111**		**1,307.1442**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0620	0.0424	0.4787	1.4000e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		139.3926	139.3926	4.1000e-003		139.4952
Total	**0.0620**	**0.0424**	**0.4787**	**1.4000e-003**	**0.1453**	**1.1700e-003**	**0.1465**	**0.0385**	**1.0800e-003**	**0.0396**		**139.3926**	**139.3926**	**4.1000e-003**		**139.4952**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830	0.0000	1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.7739**	**7.7422**	**8.8569**	**0.0135**		**0.4153**	**0.4153**		**0.3830**	**0.3830**	**0.0000**	**1,296.8664**	**1,296.8664**	**0.4111**		**1,307.1442**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0620	0.0424	0.4787	1.4000e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		139.3926	139.3926	4.1000e-003		139.4952
Total	**0.0620**	**0.0424**	**0.4787**	**1.4000e-003**	**0.1453**	**1.1700e-003**	**0.1465**	**0.0385**	**1.0800e-003**	**0.0396**		**139.3926**	**139.3926**	**4.1000e-003**		**139.4952**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	34.4149					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**34.6338**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	**0.0382**	**0.0261**	**0.2946**	**8.6000e-004**	**0.0894**	**7.2000e-004**	**0.0901**	**0.0237**	**6.7000e-004**	**0.0244**		**85.7801**	**85.7801**	**2.5200e-003**		**85.8432**

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	34.4149					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**34.6338**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0382	0.0261	0.2946	8.6000e-004	0.0894	7.2000e-004	0.0901	0.0237	6.7000e-004	0.0244		85.7801	85.7801	2.5200e-003		85.8432
Total	**0.0382**	**0.0261**	**0.2946**	**8.6000e-004**	**0.0894**	**7.2000e-004**	**0.0901**	**0.0237**	**6.7000e-004**	**0.0244**		**85.7801**	**85.7801**	**2.5200e-003**		**85.8432**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.6243	2.9880	7.6757	0.0257	2.1093	0.0226	2.1319	0.5645	0.0211	0.5856		2,613.4826	2,613.4826	0.1460		2,617.1317
Unmitigated	0.6895	3.4291	9.2427	0.0320	2.6577	0.0278	2.6855	0.7113	0.0260	0.7372		3,250.5970	3,250.5970	0.1766		3,255.0114

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	365.75	351.45	322.30	1,221,632	969,590
Total	365.75	351.45	322.30	1,221,632	969,590

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0218	0.1860	0.0792	1.1900e-003		0.0150	0.0150		0.0150	0.0150		237.4825	237.4825	4.5500e-003	4.3500e-003	238.8937
NaturalGas Unmitigated	0.0218	0.1860	0.0792	1.1900e-003		0.0150	0.0150		0.0150	0.0150		237.4825	237.4825	4.5500e-003	4.3500e-003	238.8937

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2018.6	0.0218	0.1860	0.0792	1.1900e-003		0.0150	0.0150		0.0150	0.0150		237.4825	237.4825	4.5500e-003	4.3500e-003	238.8937
Total		**0.0218**	**0.1860**	**0.0792**	**1.1900e-003**		**0.0150**	**0.0150**		**0.0150**	**0.0150**		**237.4825**	**237.4825**	**4.5500e-003**	**4.3500e-003**	**238.8937**

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 Mid Rise	2.0186	0.0218	0.1860	0.0792	1.1900e-003		0.0150	0.0150		0.0150	0.0150		237.4825	237.4825	4.5500e-003	4.3500e-003	238.8937
Total		**0.0218**	**0.1860**	**0.0792**	**1.1900e-003**		**0.0150**	**0.0150**		**0.0150**	**0.0150**		**237.4825**	**237.4825**	**4.5500e-003**	**4.3500e-003**	**238.8937**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.2362	0.0525	4.5474	2.4000e-004		0.0251	0.0251		0.0251	0.0251	0.0000	8.1704	8.1704	7.9200e-003	0.0000	8.3683
Unmitigated	1.3211	0.0525	4.5474	2.4000e-004		0.0251	0.0251		0.0251	0.0251	0.0000	8.1704	8.1704	7.9200e-003	0.0000	8.3683

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	0.0943					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0890					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1378	0.0525	4.5474	2.4000e-004		0.0251	0.0251		0.0251	0.0251		8.1704	8.1704	7.9200e-003		8.3683
Total	**1.3211**	**0.0525**	**4.5474**	**2.4000e-004**		**0.0251**	**0.0251**		**0.0251**	**0.0251**	**0.0000**	**8.1704**	**8.1704**	**7.9200e-003**	**0.0000**	**8.3683**

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	9.4300e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.0890					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1378	0.0525	4.5474	2.4000e-004		0.0251	0.0251		0.0251	0.0251		8.1704	8.1704	7.9200e-003		8.3683
Total	**1.2362**	**0.0525**	**4.5474**	**2.4000e-004**		**0.0251**	**0.0251**		**0.0251**	**0.0251**	**0.0000**	**8.1704**	**8.1704**	**7.9200e-003**	**0.0000**	**8.3683**

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

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Artesia HO-O Zone Implementation - Area B

Los Angeles-South Coast County, Mitigation Report

Construction Mitigation Summary

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

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	1	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	2	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Rollers	Diesel	No Change	0	1	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	3	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	7	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	1	No Change	0.00
Welders	Diesel	No Change	0	3	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Air Compressors	1.09000E-003	7.63000E-003	9.09000E-003	1.00000E-005	4.70000E-004	4.70000E-004	0.00000E+000	1.27663E+000	1.27663E+000	9.00000E-005	0.00000E+000	1.27882E+000
Cement and Mortar Mixers	2.20000E-004	1.38000E-003	1.16000E-003	0.00000E+000	5.00000E-005	5.00000E-005	0.00000E+000	1.71850E-001	1.71850E-001	2.00000E-005	0.00000E+000	1.72300E-001
Concrete/Industrial Saws	4.18000E-003	3.29900E-002	3.68700E-002	6.00000E-005	1.98000E-003	1.98000E-003	0.00000E+000	5.37656E+000	5.37656E+000	3.40000E-004	0.00000E+000	5.38508E+000
Cranes	5.60000E-004	6.72000E-003	2.64000E-003	1.00000E-005	2.80000E-004	2.50000E-004	0.00000E+000	6.33650E-001	6.33650E-001	2.00000E-004	0.00000E+000	6.38780E-001
Forklifts	1.07600E-002	9.70000E-002	8.84900E-002	1.10000E-004	7.22000E-003	6.64000E-003	0.00000E+000	1.00719E+001	1.00719E+001	3.26000E-003	0.00000E+000	1.01533E+001
Generator Sets	3.97600E-002	3.46770E-001	3.70480E-001	6.60000E-004	1.95200E-002	1.95200E-002	0.00000E+000	5.65208E+001	5.65208E+001	3.17000E-003	0.00000E+000	5.66001E+001
Graders	1.07000E-003	1.42300E-002	4.08000E-003	1.00000E-005	4.60000E-004	4.20000E-004	0.00000E+000	1.31190E+000	1.31190E+000	4.20000E-004	0.00000E+000	1.32250E+000
Pavers	9.20000E-004	9.73000E-003	1.08900E-002	2.00000E-005	4.70000E-004	4.30000E-004	0.00000E+000	1.54809E+000	1.54809E+000	5.00000E-004	0.00000E+000	1.56061E+000
Paving Equipment	9.60000E-004	9.70000E-003	1.27100E-002	2.00000E-005	4.80000E-004	4.40000E-004	0.00000E+000	1.78922E+000	1.78922E+000	5.80000E-004	0.00000E+000	1.80369E+000
Rollers	8.30000E-004	8.42000E-003	8.23000E-003	1.00000E-005	5.10000E-004	4.70000E-004	0.00000E+000	1.00846E+000	1.00846E+000	3.30000E-004	0.00000E+000	1.01662E+000
Rubber Tired Dozers	1.32200E-002	1.38820E-001	5.06100E-002	1.00000E-004	6.80000E-003	6.25000E-003	0.00000E+000	9.19427E+000	9.19427E+000	2.97000E-003	0.00000E+000	9.26861E+000
Tractors/Loaders/Backhoes	2.33500E-002	2.34710E-001	2.55750E-001	3.50000E-004	1.47800E-002	1.36000E-002	0.00000E+000	3.06286E+001	3.06286E+001	9.91000E-003	0.00000E+000	3.08763E+001
Welders	1.02210E-001	4.70740E-001	5.29600E-001	7.70000E-004	2.59300E-002	2.59300E-002	0.00000E+000	5.64662E+001	5.64662E+001	8.31000E-003	0.00000E+000	5.66740E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Mitigated tons/yr						Mitigated mt/yr					
Air Compressors	1.09000E-003	7.63000E-003	9.09000E-003	1.00000E-005	4.70000E-004	4.70000E-004	0.00000E+000	1.27663E+000	1.27663E+000	9.00000E-005	0.00000E+000	1.27882E+000
Cement and Mortar Mixers	2.20000E-004	1.38000E-003	1.16000E-003	0.00000E+000	5.00000E-005	5.00000E-005	0.00000E+000	1.71850E-001	1.71850E-001	2.00000E-005	0.00000E+000	1.72300E-001
Concrete/Industrial Saws	4.18000E-003	3.29900E-002	3.68700E-002	6.00000E-005	1.98000E-003	1.98000E-003	0.00000E+000	5.37656E+000	5.37656E+000	3.40000E-004	0.00000E+000	5.38507E+000
Cranes	5.60000E-004	6.72000E-003	2.64000E-003	1.00000E-005	2.80000E-004	2.50000E-004	0.00000E+000	6.33650E-001	6.33650E-001	2.00000E-004	0.00000E+000	6.38780E-001
Forklifts	1.07600E-002	9.70000E-002	8.84900E-002	1.10000E-004	7.22000E-003	6.64000E-003	0.00000E+000	1.00718E+001	1.00718E+001	3.26000E-003	0.00000E+000	1.01533E+001
Generator Sets	3.97600E-002	3.46770E-001	3.70480E-001	6.60000E-004	1.95200E-002	1.95200E-002	0.00000E+000	5.65207E+001	5.65207E+001	3.17000E-003	0.00000E+000	5.66000E+001
Graders	1.07000E-003	1.42300E-002	4.08000E-003	1.00000E-005	4.60000E-004	4.20000E-004	0.00000E+000	1.31189E+000	1.31189E+000	4.20000E-004	0.00000E+000	1.32250E+000
Pavers	9.20000E-004	9.73000E-003	1.08900E-002	2.00000E-005	4.70000E-004	4.30000E-004	0.00000E+000	1.54809E+000	1.54809E+000	5.00000E-004	0.00000E+000	1.56061E+000
Paving Equipment	9.60000E-004	9.70000E-003	1.27100E-002	2.00000E-005	4.80000E-004	4.40000E-004	0.00000E+000	1.78922E+000	1.78922E+000	5.80000E-004	0.00000E+000	1.80369E+000
Rollers	8.30000E-004	8.42000E-003	8.23000E-003	1.00000E-005	5.10000E-004	4.70000E-004	0.00000E+000	1.00846E+000	1.00846E+000	3.30000E-004	0.00000E+000	1.01661E+000
Rubber Tired Dozers	1.32200E-002	1.38820E-001	5.06100E-002	1.00000E-004	6.80000E-003	6.25000E-003	0.00000E+000	9.19426E+000	9.19426E+000	2.97000E-003	0.00000E+000	9.26860E+000
Tractors/Loaders/Backhoes	2.33500E-002	2.34710E-001	2.55750E-001	3.50000E-004	1.47800E-002	1.36000E-002	0.00000E+000	3.06286E+001	3.06286E+001	9.91000E-003	0.00000E+000	3.08762E+001
Welders	1.02210E-001	4.70740E-001	5.29600E-001	7.70000E-004	2.59300E-002	2.59300E-002	0.00000E+000	5.64661E+001	5.64661E+001	8.31000E-003	0.00000E+000	5.66739E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.85698E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.92866E-007	9.92866E-007	0.00000E+000	0.00000E+000	9.84903E-007
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23848E-006	1.23848E-006	0.00000E+000	0.00000E+000	1.23675E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	7.62253E-006	7.62253E-006	0.00000E+000	0.00000E+000	0.00000E+000
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.83652E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.08763E-006	1.08763E-006	0.00000E+000	0.00000E+000	1.07891E-006
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.79476E-007	9.79476E-007	0.00000E+000	0.00000E+000	9.71620E-007
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23968E-006	1.23968E-006	0.00000E+000	0.00000E+000	1.23513E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input		Mitigation Input		Mitigation Input	
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00

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

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.05	0.01	0.05	0.01	0.00	0.00
Demolition	Fugitive Dust	0.01	0.00	0.00	0.00	0.55	0.54
Demolition	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Grading	Fugitive Dust	0.01	0.01	0.00	0.00	0.55	0.55
Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.01	0.00	0.00	0.00	0.55	0.55
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	90.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.00	0.00	0.05
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	9.74	12.89	17.16	19.44	19.07	18.91	0.00	19.56	19.56	17.50	0.00	19.55
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	15.14	15.37	19.96	19.66	15.99
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting: Urban

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
Yes	Land Use	Increase Density	0.00	30.00		
No	Land Use	Increase Diversity	-0.01	0.13		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.21			

No	Neighborhood Enhancements	Improve Pedestrian Network				
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.21			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"	7.70			
No	Commute	Workplace Parking Charge				
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00		2.00	
No	Commute	Provide Ride Sharing Program	15.00			
	Commute	Commute Subtotal	0.00			

No	School Trip	Implement School Bus Program	0.00			
		Total VMT Reduction	0.21			

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
Yes	No Hearth	
No	Use Low VOC Cleaning Supplies	
Yes	Use Low VOC Paint (Residential Interior)	5.00
Yes	Use Low VOC Paint (Residential Exterior)	5.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
Yes	On-site Renewable	107.58	

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

Water Mitigation Measures

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

Solid Waste Mitigation

Mitigation Measures	Input Value

Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

Artesia HO-O Zone Implementation - Area C

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	62.00	Dwelling Unit	2.05	62,000.00	177

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction hypothesized to start in March 2020 for model purposes.
Project modeled to be operational in 2021.

Land Use - Combined Group C lot area.
Dimensions - L.A. Co. Assessor.

Construction Phase - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment - Cranes anticipated to be used approx 14 days over 200-day consruction period.
14 days/220 days = 0.1 (rounded up) = fractional crane use over whole period.

Off-road Equipment - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment - Estimated real-time use: equipt not expected to be running continuously for 8 hrs/day.
Grading - Assumes no cut/fill. Terrain is flat.

Demolition - Extg bldg square footage obtained from L.A. Co. Assessor.

Trips and VMT - Defaults used.

On-road Fugitive Dust - Defaults used.

Architectural Coating - Defaults used.

Woodstoves - No fireplaces/wood stoves.

Area Coating - Defaults used.

Energy Use - Defaults used.

Water And Wastewater - Defaults used.

Solid Waste - Defaults used.

Land Use Change - No natural vegetation changes - area previously developed, urban.

Sequestration - Assumes 1/4 tree/unit.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Density overall increased from ~ 15/acre to 30/acre.

Area Mitigation - Zero VOC coatings indicated to be 5 g/l or less - used Dunn-Edwards "Everest" zero-VOC paint as example.

Energy Mitigation - Required PV installation per 2018 Title 24 Multifamily Residential on-site solar provision.
See Cal. Energy Comm, Residential Compliance Manual, December 2018, p. 7-1 for calculating PV system size.

Water Mitigation - Defaults used; assume Ti. 24 compliance for low-flow fixtures.

Artesia HO-O Zone Implementation - Area C - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	5
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	5
tblFireplaces	NumberGas	52.70	0.00
tblFireplaces	NumberNoFireplace	6.20	62.00
tblFireplaces	NumberWood	3.10	0.00
tblLandUse	LotAcreage	1.63	2.05
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.10
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblSequestration	NumberOfNewTrees	0.00	16.00
tblWoodstoves	NumberCatalytic	3.10	0.00
tblWoodstoves	NumberNoncatalytic	3.10	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.2226	1.5117	1.5808	2.8500e-003	0.0920	0.0828	0.1749	0.0273	0.0798	0.1071	0.0000	241.7358	241.7358	0.0344	0.0000	242.5956
2021	0.2287	0.2425	0.2899	5.1000e-004	9.3700e-003	0.0128	0.0222	2.5000e-003	0.0123	0.0148	0.0000	43.1183	43.1183	6.6300e-003	0.0000	43.2841
Maximum	**0.2287**	**1.5117**	**1.5808**	**2.8500e-003**	**0.0920**	**0.0828**	**0.1749**	**0.0273**	**0.0798**	**0.1071**	**0.0000**	**241.7358**	**241.7358**	**0.0344**	**0.0000**	**242.5956**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.2226	1.5117	1.5808	2.8500e-003	0.0712	0.0828	0.1540	0.0202	0.0798	0.1000	0.0000	241.7356	241.7356	0.0344	0.0000	242.5954
2021	0.2287	0.2425	0.2899	5.1000e-004	9.3700e-003	0.0128	0.0222	2.5000e-003	0.0123	0.0148	0.0000	43.1183	43.1183	6.6300e-003	0.0000	43.2841
Maximum	**0.2287**	**1.5117**	**1.5808**	**2.8500e-003**	**0.0712**	**0.0828**	**0.1540**	**0.0202**	**0.0798**	**0.1000**	**0.0000**	**241.7356**	**241.7356**	**0.0344**	**0.0000**	**242.5954**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**20.54**	**0.00**	**10.57**	**23.56**	**0.00**	**5.76**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Artesia HO-O Zone Implementation - Area C - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-2-2020	6-1-2020	0.5727	0.5727
2	6-2-2020	9-1-2020	0.4953	0.4953
3	9-2-2020	12-1-2020	0.4908	0.4908
4	12-2-2020	3-1-2021	0.4882	0.4882
5	3-2-2021	6-1-2021	0.1450	0.1450
		Highest	0.5727	0.5727

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	0.2629	7.4000e-003	0.6408	3.0000e-005		3.5300e-003	3.5300e-003		3.5300e-003	3.5300e-003	0.0000	1.0444	1.0444	1.0100e-003	0.0000	1.0697
Energy	4.4800e-003	0.0383	0.0163	2.4000e-004		3.0900e-003	3.0900e-003		3.0900e-003	3.0900e-003	0.0000	124.2917	124.2917	4.1500e-003	1.5000e-003	124.8412
Mobile	0.1352	0.7006	1.8805	6.5000e-003	0.5227	5.5500e-003	0.5282	0.1401	5.1900e-003	0.1453	0.0000	599.6425	599.6425	0.0320	0.0000	600.4429
Waste						0.0000	0.0000		0.0000	0.0000	5.7893	0.0000	5.7893	0.3421	0.0000	14.3428
Water						0.0000	0.0000		0.0000	0.0000	1.2816	25.7741	27.0557	0.1327	3.3300e-003	31.3648
Total	**0.4025**	**0.7463**	**2.5376**	**6.7700e-003**	**0.5227**	**0.0122**	**0.5348**	**0.1401**	**0.0118**	**0.1519**	**7.0709**	**750.7527**	**757.8235**	**0.5120**	**4.8300e-003**	**772.0613**

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	0.2454	7.4000e-003	0.6408	3.0000e-005		3.5300e-003	3.5300e-003		3.5300e-003	3.5300e-003	0.0000	1.0444	1.0444	1.0100e-003	0.0000	1.0697
Energy	4.4800e-003	0.0383	0.0163	2.4000e-004		3.0900e-003	3.0900e-003		3.0900e-003	3.0900e-003	0.0000	124.2530	124.2530	4.1500e-003	1.5000e-003	124.8024
Mobile	0.1216	0.6075	1.5479	5.1900e-003	0.4115	4.4700e-003	0.4160	0.1103	4.1700e-003	0.1145	0.0000	478.7691	478.7691	0.0262	0.0000	479.4251
Waste						0.0000	0.0000		0.0000	0.0000	5.7893	0.0000	5.7893	0.3421	0.0000	14.3428
Water						0.0000	0.0000		0.0000	0.0000	1.0253	21.8723	22.8976	0.1062	2.6700e-003	26.3494
Total	**0.3715**	**0.6532**	**2.2050**	**5.4600e-003**	**0.4115**	**0.0111**	**0.4226**	**0.1103**	**0.0108**	**0.1211**	**6.8146**	**625.9389**	**632.7535**	**0.4798**	**4.1700e-003**	**645.9893**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**7.71**	**12.47**	**13.11**	**19.35**	**21.27**	**8.87**	**20.99**	**21.27**	**8.64**	**20.28**	**3.62**	**16.63**	**16.50**	**6.30**	**13.66**	**16.33**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	11.3280
Total	**11.3280**

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	3/2/2020	3/27/2020	5	20	
2	Site Preparation	Site Preparation	3/28/2020	4/1/2020	5	3	
3	Grading	Grading	4/2/2020	4/9/2020	5	6	
4	Building Construction	Building Construction	4/10/2020	2/11/2021	5	220	
5	Paving	Paving	2/12/2021	2/25/2021	5	10	
6	Architectural Coating	Architectural Coating	2/26/2021	3/11/2021	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 125,550; Residential Outdoor: 41,850; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	0.10	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Scrapers	1	8.00	367	0.48
Building Construction	Welders	3	8.00	46	0.45

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
Architectural Coating	1	9.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	45.00	7.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	146.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	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

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0158	0.0000	0.0158	2.4000e-003	0.0000	2.4000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0160	0.1571	0.1099	1.8000e-004		8.6400e-003	8.6400e-003		8.0700e-003	8.0700e-003	0.0000	15.8008	15.8008	4.0600e-003	0.0000	15.9023
Total	**0.0160**	**0.1571**	**0.1099**	**1.8000e-004**	**0.0158**	**8.6400e-003**	**0.0245**	**2.4000e-003**	**8.0700e-003**	**0.0105**	**0.0000**	**15.8008**	**15.8008**	**4.0600e-003**	**0.0000**	**15.9023**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.4000e-004	0.0217	4.7800e-003	6.0000e-005	1.2500e-003	7.0000e-005	1.3200e-003	3.4000e-004	6.0000e-005	4.1000e-004	0.0000	5.6267	5.6267	3.9000e-004	0.0000	5.6365
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-004	4.8000e-004	5.3500e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.3278	1.3278	4.0000e-005	0.0000	1.3288
Total	**1.2400e-003**	**0.0222**	**0.0101**	**7.0000e-005**	**2.6700e-003**	**8.0000e-005**	**2.7600e-003**	**7.2000e-004**	**7.0000e-005**	**8.0000e-004**	**0.0000**	**6.9545**	**6.9545**	**4.3000e-004**	**0.0000**	**6.9653**

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					7.1200e-003	0.0000	7.1200e-003	1.0800e-003	0.0000	1.0800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0160	0.1571	0.1099	1.8000e-004		8.6400e-003	8.6400e-003		8.0700e-003	8.0700e-003	0.0000	15.8007	15.8007	4.0600e-003	0.0000	15.9023
Total	**0.0160**	**0.1571**	**0.1099**	**1.8000e-004**	**7.1200e-003**	**8.6400e-003**	**0.0158**	**1.0800e-003**	**8.0700e-003**	**9.1500e-003**	**0.0000**	**15.8007**	**15.8007**	**4.0600e-003**	**0.0000**	**15.9023**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.4000e-004	0.0217	4.7800e-003	6.0000e-005	1.2500e-003	7.0000e-005	1.3200e-003	3.4000e-004	6.0000e-005	4.1000e-004	0.0000	5.6267	5.6267	3.9000e-004	0.0000	5.6365
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-004	4.8000e-004	5.3500e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.3278	1.3278	4.0000e-005	0.0000	1.3288
Total	**1.2400e-003**	**0.0222**	**0.0101**	**7.0000e-005**	**2.6700e-003**	**8.0000e-005**	**2.7600e-003**	**7.2000e-004**	**7.0000e-005**	**8.0000e-004**	**0.0000**	**6.9545**	**6.9545**	**4.3000e-004**	**0.0000**	**6.9653**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4800e-003	0.0299	0.0169	4.0000e-005		1.1700e-003	1.1700e-003		1.0700e-003	1.0700e-003	0.0000	3.2290	3.2290	1.0400e-003	0.0000	3.2551
Total	**2.4800e-003**	**0.0299**	**0.0169**	**4.0000e-005**	**2.3900e-003**	**1.1700e-003**	**3.5600e-003**	**2.6000e-004**	**1.0700e-003**	**1.3300e-003**	**0.0000**	**3.2290**	**3.2290**	**1.0400e-003**	**0.0000**	**3.2551**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	4.9000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.1226	0.1226	0.0000	0.0000	0.1227
Total	**6.0000e-005**	**4.0000e-005**	**4.9000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**3.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.1226**	**0.1226**	**0.0000**	**0.0000**	**0.1227**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0700e-003	0.0000	1.0700e-003	1.2000e-004	0.0000	1.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4800e-003	0.0299	0.0169	4.0000e-005		1.1700e-003	1.1700e-003		1.0700e-003	1.0700e-003	0.0000	3.2290	3.2290	1.0400e-003	0.0000	3.2551
Total	**2.4800e-003**	**0.0299**	**0.0169**	**4.0000e-005**	**1.0700e-003**	**1.1700e-003**	**2.2400e-003**	**1.2000e-004**	**1.0700e-003**	**1.1900e-003**	**0.0000**	**3.2290**	**3.2290**	**1.0400e-003**	**0.0000**	**3.2551**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	4.9000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.1226	0.1226	0.0000	0.0000	0.1227
Total	**6.0000e-005**	**4.0000e-005**	**4.9000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**3.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.1226**	**0.1226**	**0.0000**	**0.0000**	**0.1227**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0197	0.0000	0.0197	0.0101	0.0000	0.0101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7700e-003	0.0640	0.0298	6.0000e-005		2.9700e-003	2.9700e-003		2.7300e-003	2.7300e-003	0.0000	5.4333	5.4333	1.7600e-003	0.0000	5.4773
Total	**5.7700e-003**	**0.0640**	**0.0298**	**6.0000e-005**	**0.0197**	**2.9700e-003**	**0.0226**	**0.0101**	**2.7300e-003**	**0.0128**	**0.0000**	**5.4333**	**5.4333**	**1.7600e-003**	**0.0000**	**5.4773**

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.1000e-004	1.2300e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3064	0.3064	1.0000e-005	0.0000	0.3067
Total	**1.4000e-004**	**1.1000e-004**	**1.2300e-003**	**0.0000**	**3.3000e-004**	**0.0000**	**3.3000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.3064**	**0.3064**	**1.0000e-005**	**0.0000**	**0.3067**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.8500e-003	0.0000	8.8500e-003	4.5500e-003	0.0000	4.5500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7700e-003	0.0640	0.0298	6.0000e-005		2.9700e-003	2.9700e-003		2.7300e-003	2.7300e-003	0.0000	5.4333	5.4333	1.7600e-003	0.0000	5.4773
Total	**5.7700e-003**	**0.0640**	**0.0298**	**6.0000e-005**	**8.8500e-003**	**2.9700e-003**	**0.0118**	**4.5500e-003**	**2.7300e-003**	**7.2800e-003**	**0.0000**	**5.4333**	**5.4333**	**1.7600e-003**	**0.0000**	**5.4773**

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.1000e-004	1.2300e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3064	0.3064	1.0000e-005	0.0000	0.3067
Total	**1.4000e-004**	**1.1000e-004**	**1.2300e-003**	**0.0000**	**3.3000e-004**	**0.0000**	**3.3000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.3064**	**0.3064**	**1.0000e-005**	**0.0000**	**0.3067**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1748	1.1504	1.2168	1.8400e-003		0.0692	0.0692		0.0672	0.0672	0.0000	149.7062	149.7062	0.0247	0.0000	150.3226
Total	**0.1748**	**1.1504**	**1.2168**	**1.8400e-003**		**0.0692**	**0.0692**		**0.0672**	**0.0672**	**0.0000**	**149.7062**	**149.7062**	**0.0247**	**0.0000**	**150.3226**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.4100e-003	0.0721	0.0195	1.7000e-004	4.1900e-003	3.4000e-004	4.5200e-003	1.2100e-003	3.2000e-004	1.5300e-003	0.0000	16.5203	16.5203	1.0500e-003	0.0000	16.5466
Worker	0.0197	0.0159	0.1760	4.8000e-004	0.0469	4.0000e-004	0.0472	0.0124	3.7000e-004	0.0128	0.0000	43.6627	43.6627	1.3800e-003	0.0000	43.6971
Total	**0.0221**	**0.0880**	**0.1955**	**6.5000e-004**	**0.0510**	**7.4000e-004**	**0.0518**	**0.0137**	**6.9000e-004**	**0.0143**	**0.0000**	**60.1831**	**60.1831**	**2.4300e-003**	**0.0000**	**60.2437**

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	0.1748	1.1504	1.2168	1.8400e-003		0.0692	0.0692		0.0672	0.0672	0.0000	149.7061	149.7061	0.0247	0.0000	150.3224
Total	**0.1748**	**1.1504**	**1.2168**	**1.8400e-003**		**0.0692**	**0.0692**		**0.0672**	**0.0672**	**0.0000**	**149.7061**	**149.7061**	**0.0247**	**0.0000**	**150.3224**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.4100e-003	0.0721	0.0195	1.7000e-004	4.1900e-003	3.4000e-004	4.5200e-003	1.2100e-003	3.2000e-004	1.5300e-003	0.0000	16.5203	16.5203	1.0500e-003	0.0000	16.5466
Worker	0.0197	0.0159	0.1760	4.8000e-004	0.0469	4.0000e-004	0.0472	0.0124	3.7000e-004	0.0128	0.0000	43.6627	43.6627	1.3800e-003	0.0000	43.6971
Total	**0.0221**	**0.0880**	**0.1955**	**6.5000e-004**	**0.0510**	**7.4000e-004**	**0.0518**	**0.0137**	**6.9000e-004**	**0.0143**	**0.0000**	**60.1831**	**60.1831**	**2.4300e-003**	**0.0000**	**60.2437**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0246	0.1686	0.1891	2.9000e-004		9.3400e-003	9.3400e-003		9.0600e-003	9.0600e-003	0.0000	23.6392	23.6392	3.7000e-003	0.0000	23.7317
Total	**0.0246**	**0.1686**	**0.1891**	**2.9000e-004**		**9.3400e-003**	**9.3400e-003**		**9.0600e-003**	**9.0600e-003**	**0.0000**	**23.6392**	**23.6392**	**3.7000e-003**	**0.0000**	**23.7317**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3000e-004	0.0104	2.8100e-003	3.0000e-005	6.6000e-004	2.0000e-005	6.8000e-004	1.9000e-004	2.0000e-005	2.1000e-004	0.0000	2.5882	2.5882	1.6000e-004	0.0000	2.5922
Worker	2.9000e-003	2.2600e-003	0.0255	7.0000e-005	7.4000e-003	6.0000e-005	7.4600e-003	1.9600e-003	6.0000e-005	2.0200e-003	0.0000	6.6752	6.6752	2.0000e-004	0.0000	6.6801
Total	**3.2300e-003**	**0.0126**	**0.0283**	**1.0000e-004**	**8.0600e-003**	**8.0000e-005**	**8.1400e-003**	**2.1500e-003**	**8.0000e-005**	**2.2300e-003**	**0.0000**	**9.2634**	**9.2634**	**3.6000e-004**	**0.0000**	**9.2723**

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	0.0246	0.1686	0.1891	2.9000e-004		9.3400e-003	9.3400e-003		9.0600e-003	9.0600e-003	0.0000	23.6391	23.6391	3.7000e-003	0.0000	23.7316
Total	**0.0246**	**0.1686**	**0.1891**	**2.9000e-004**		**9.3400e-003**	**9.3400e-003**		**9.0600e-003**	**9.0600e-003**	**0.0000**	**23.6391**	**23.6391**	**3.7000e-003**	**0.0000**	**23.7316**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3000e-004	0.0104	2.8100e-003	3.0000e-005	6.6000e-004	2.0000e-005	6.8000e-004	1.9000e-004	2.0000e-005	2.1000e-004	0.0000	2.5882	2.5882	1.6000e-004	0.0000	2.5922
Worker	2.9000e-003	2.2600e-003	0.0255	7.0000e-005	7.4000e-003	6.0000e-005	7.4600e-003	1.9600e-003	6.0000e-005	2.0200e-003	0.0000	6.6752	6.6752	2.0000e-004	0.0000	6.6801
Total	**3.2300e-003**	**0.0126**	**0.0283**	**1.0000e-004**	**8.0600e-003**	**8.0000e-005**	**8.1400e-003**	**2.1500e-003**	**8.0000e-005**	**2.2300e-003**	**0.0000**	**9.2634**	**9.2634**	**3.6000e-004**	**0.0000**	**9.2723**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.3200e-003	0.0532	0.0589	9.0000e-005		2.9100e-003	2.9100e-003		2.6900e-003	2.6900e-003	0.0000	7.7524	7.7524	2.4600e-003	0.0000	7.8138
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.3200e-003**	**0.0532**	**0.0589**	**9.0000e-005**		**2.9100e-003**	**2.9100e-003**		**2.6900e-003**	**2.6900e-003**	**0.0000**	**7.7524**	**7.7524**	**2.4600e-003**	**0.0000**	**7.8138**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	2.5000e-004	2.8400e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7417	0.7417	2.0000e-005	0.0000	0.7422
Total	**3.2000e-004**	**2.5000e-004**	**2.8400e-003**	**1.0000e-005**	**8.2000e-004**	**1.0000e-005**	**8.3000e-004**	**2.2000e-004**	**1.0000e-005**	**2.2000e-004**	**0.0000**	**0.7417**	**0.7417**	**2.0000e-005**	**0.0000**	**0.7422**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.3200e-003	0.0532	0.0589	9.0000e-005		2.9100e-003	2.9100e-003		2.6900e-003	2.6900e-003	0.0000	7.7524	7.7524	2.4600e-003	0.0000	7.8138
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.3200e-003**	**0.0532**	**0.0589**	**9.0000e-005**		**2.9100e-003**	**2.9100e-003**		**2.6900e-003**	**2.6900e-003**	**0.0000**	**7.7524**	**7.7524**	**2.4600e-003**	**0.0000**	**7.8138**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	2.5000e-004	2.8400e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7417	0.7417	2.0000e-005	0.0000	0.7422
Total	**3.2000e-004**	**2.5000e-004**	**2.8400e-003**	**1.0000e-005**	**8.2000e-004**	**1.0000e-005**	**8.3000e-004**	**2.2000e-004**	**1.0000e-005**	**2.2000e-004**	**0.0000**	**0.7417**	**0.7417**	**2.0000e-005**	**0.0000**	**0.7422**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1940					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0900e-003	7.6300e-003	9.0900e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.2766	1.2766	9.0000e-005	0.0000	1.2788
Total	**0.1951**	**7.6300e-003**	**9.0900e-003**	**1.0000e-005**		**4.7000e-004**	**4.7000e-004**		**4.7000e-004**	**4.7000e-004**	**0.0000**	**1.2766**	**1.2766**	**9.0000e-005**	**0.0000**	**1.2788**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.5000e-004	1.7000e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4450	0.4450	1.0000e-005	0.0000	0.4453
Total	**1.9000e-004**	**1.5000e-004**	**1.7000e-003**	**0.0000**	**4.9000e-004**	**0.0000**	**5.0000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4450**	**0.4450**	**1.0000e-005**	**0.0000**	**0.4453**

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	0.1940					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0900e-003	7.6300e-003	9.0900e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.2766	1.2766	9.0000e-005	0.0000	1.2788
Total	**0.1951**	**7.6300e-003**	**9.0900e-003**	**1.0000e-005**		**4.7000e-004**	**4.7000e-004**		**4.7000e-004**	**4.7000e-004**	**0.0000**	**1.2766**	**1.2766**	**9.0000e-005**	**0.0000**	**1.2788**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.5000e-004	1.7000e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4450	0.4450	1.0000e-005	0.0000	0.4453
Total	**1.9000e-004**	**1.5000e-004**	**1.7000e-003**	**0.0000**	**4.9000e-004**	**0.0000**	**5.0000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4450**	**0.4450**	**1.0000e-005**	**0.0000**	**0.4453**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Integrate Below Market Rate Housing

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1216	0.6075	1.5479	5.1900e-003	0.4115	4.4700e-003	0.4160	0.1103	4.1700e-003	0.1145	0.0000	478.7691	478.7691	0.0262	0.0000	479.4251
Unmitigated	0.1352	0.7006	1.8805	6.5000e-003	0.5227	5.5500e-003	0.5282	0.1401	5.1900e-003	0.1453	0.0000	599.6425	599.6425	0.0320	0.0000	600.4429

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	412.30	396.18	363.32	1,377,112	1,084,248
Total	412.30	396.18	363.32	1,377,112	1,084,248

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	79.9311	79.9311	3.3000e-003	6.8000e-004	80.2170
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	79.9697	79.9697	3.3000e-003	6.8000e-004	80.2558
NaturalGas Mitigated	4.4800e-003	0.0383	0.0163	2.4000e-004		3.0900e-003	3.0900e-003		3.0900e-003	3.0900e-003	0.0000	44.3220	44.3220	8.5000e-004	8.1000e-004	44.5854
NaturalGas Unmitigated	4.4800e-003	0.0383	0.0163	2.4000e-004		3.0900e-003	3.0900e-003		3.0900e-003	3.0900e-003	0.0000	44.3220	44.3220	8.5000e-004	8.1000e-004	44.5854

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	830563	4.4800e-003	0.0383	0.0163	2.4000e-004		3.0900e-003	3.0900e-003		3.0900e-003	3.0900e-003	0.0000	44.3220	44.3220	8.5000e-004	8.1000e-004	44.5854
Total		**4.4800e-003**	**0.0383**	**0.0163**	**2.4000e-004**		**3.0900e-003**	**3.0900e-003**		**3.0900e-003**	**3.0900e-003**	**0.0000**	**44.3220**	**44.3220**	**8.5000e-004**	**8.1000e-004**	**44.5854**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	830563	4.4800e-003	0.0383	0.0163	2.4000e-004		3.0900e-003	3.0900e-003		3.0900e-003	3.0900e-003	0.0000	44.3220	44.3220	8.5000e-004	8.1000e-004	44.5854
Total		**4.4800e-003**	**0.0383**	**0.0163**	**2.4000e-004**		**3.0900e-003**	**3.0900e-003**		**3.0900e-003**	**3.0900e-003**	**0.0000**	**44.3220**	**44.3220**	**8.5000e-004**	**8.1000e-004**	**44.5854**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	250987	79.9697	3.3000e-003	6.8000e-004	80.2558
Total		**79.9697**	**3.3000e-003**	**6.8000e-004**	**80.2558**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	250865	79.9311	3.3000e-003	6.8000e-004	80.2170
Total		**79.9311**	**3.3000e-003**	**6.8000e-004**	**80.2170**

6.0 Area Detail

6.1 Mitigation Measures Area

Artesia HO-O Zone Implementation - Area C - Los Angeles-South Coast County, Annual

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.2454	7.4000e-003	0.6408	3.0000e-005		3.5300e-003	3.5300e-003		3.5300e-003	3.5300e-003	0.0000	1.0444	1.0444	1.0100e-003	0.0000	1.0697
Unmitigated	0.2629	7.4000e-003	0.6408	3.0000e-005		3.5300e-003	3.5300e-003		3.5300e-003	3.5300e-003	0.0000	1.0444	1.0444	1.0100e-003	0.0000	1.0697

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	0.0194					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2240					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0194	7.4000e-003	0.6408	3.0000e-005		3.5300e-003	3.5300e-003		3.5300e-003	3.5300e-003	0.0000	1.0444	1.0444	1.0100e-003	0.0000	1.0697
Total	**0.2629**	**7.4000e-003**	**0.6408**	**3.0000e-005**		**3.5300e-003**	**3.5300e-003**		**3.5300e-003**	**3.5300e-003**	**0.0000**	**1.0444**	**1.0444**	**1.0100e-003**	**0.0000**	**1.0697**

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	1.9400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2240					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0194	7.4000e-003	0.6408	3.0000e-005		3.5300e-003	3.5300e-003		3.5300e-003	3.5300e-003	0.0000	1.0444	1.0444	1.0100e-003	0.0000	1.0697
Total	**0.2454**	**7.4000e-003**	**0.6408**	**3.0000e-005**		**3.5300e-003**	**3.5300e-003**		**3.5300e-003**	**3.5300e-003**	**0.0000**	**1.0444**	**1.0444**	**1.0100e-003**	**0.0000**	**1.0697**

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	22.8976	0.1062	2.6700e-003	26.3494
Unmitigated	27.0557	0.1327	3.3300e-003	31.3648

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	4.03955 / 2.54667	27.0557	0.1327	3.3300e-003	31.3648
Total		**27.0557**	**0.1327**	**3.3300e-003**	**31.3648**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	3.23164 / 2.39133	22.8976	0.1062	2.6700e-003	26.3494
Total		**22.8976**	**0.1062**	**2.6700e-003**	**26.3494**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	5.7893	0.3421	0.0000	14.3428
Unmitigated	5.7893	0.3421	0.0000	14.3428

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	28.52	5.7893	0.3421	0.0000	14.3428
Total		**5.7893**	**0.3421**	**0.0000**	**14.3428**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	28.52	5.7893	0.3421	0.0000	14.3428
Total		**5.7893**	**0.3421**	**0.0000**	**14.3428**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	11.3280	0.0000	0.0000	11.3280

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	16	11.3280	0.0000	0.0000	11.3280
Total		**11.3280**	**0.0000**	**0.0000**	**11.3280**

Artesia HO-O Zone Implementation - Area C

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	62.00	Dwelling Unit	2.05	62,000.00	177

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction hypothesized to start in March 2020 for model purposes.
Project modeled to be operational in 2021.

Land Use - Combined Group C lot area.
Dimensions - L.A. Co. Assessor.

Construction Phase - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment - Cranes anticipated to be used approx 14 days over 200-day consruction period.
14 days/220 days = 0.1 (rounded up) = fractional crane use over whole period.

Off-road Equipment - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment - Estimated real-time use: equipt not expected to be running continuously for 8 hrs/day.
Grading - Assumes no cut/fill. Terrain is flat.

Demolition - Extg bldg square footage obtained from L.A. Co. Assessor.

Trips and VMT - Defaults used.

On-road Fugitive Dust - Defaults used.

Architectural Coating - Defaults used.

Woodstoves - No fireplaces/wood stoves.

Area Coating - Defaults used.

Energy Use - Defaults used.

Water And Wastewater - Defaults used.

Solid Waste - Defaults used.

Land Use Change - No natural vegetation changes - area previously developed, urban.

Sequestration - Assumes 1/4 tree/unit.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Density overall increased from ~ 15/acre to 30/acre.

Area Mitigation - Zero VOC coatings indicated to be 5 g/l or less - used Dunn-Edwards "Everest" zero-VOC paint as example.

Energy Mitigation - Required PV installation per 2018 Title 24 Multifamily Residential on-site solar provision.
See Cal. Energy Comm, Residential Compliance Manual, December 2018, p. 7-1 for calculating PV system size.

Water Mitigation - Defaults used; assume Ti. 24 compliance for low-flow fixtures.

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	5
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	5
tblFireplaces	NumberGas	52.70	0.00
tblFireplaces	NumberNoFireplace	6.20	62.00
tblFireplaces	NumberWood	3.10	0.00
tblLandUse	LotAcreage	1.63	2.05
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.10
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblSequestration	NumberOfNewTrees	0.00	16.00
tblWoodstoves	NumberCatalytic	3.10	0.00
tblWoodstoves	NumberNoncatalytic	3.10	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.0721	21.3745	14.9737	0.0265	6.6641	0.9911	7.6552	3.3971	0.9118	4.3089	0.0000	2,519.3864	2,519.3864	0.7704	0.0000	2,531.7628
2021	39.0524	12.0510	14.5950	0.0263	0.5478	0.6283	1.1761	0.1463	0.6093	0.7556	0.0000	2,442.0439	2,442.0439	0.5467	0.0000	2,449.5016
Maximum	**39.0524**	**21.3745**	**14.9737**	**0.0265**	**6.6641**	**0.9911**	**7.6552**	**3.3971**	**0.9118**	**4.3089**	**0.0000**	**2,519.3864**	**2,519.3864**	**0.7704**	**0.0000**	**2,531.7628**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.0721	21.3745	14.9737	0.0265	3.0603	0.9911	4.0514	1.5450	0.9118	2.4568	0.0000	2,519.3864	2,519.3864	0.7704	0.0000	2,531.7628
2021	39.0524	12.0510	14.5950	0.0263	0.5478	0.6283	1.1761	0.1463	0.6093	0.7556	0.0000	2,442.0439	2,442.0439	0.5467	0.0000	2,449.5016
Maximum	**39.0524**	**21.3745**	**14.9737**	**0.0265**	**3.0603**	**0.9911**	**4.0514**	**1.5450**	**0.9118**	**2.4568**	**0.0000**	**2,519.3864**	**2,519.3864**	**0.7704**	**0.0000**	**2,531.7628**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**49.97**	**0.00**	**40.81**	**52.27**	**0.00**	**36.57**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.4892	0.0592	5.1262	2.7000e-004		0.0283	0.0283		0.0283	0.0283	0.0000	9.2102	9.2102	8.9300e-003	0.0000	9.4334
Energy	0.0245	0.2097	0.0892	1.3400e-003		0.0170	0.0170		0.0170	0.0170		267.7075	267.7075	5.1300e-003	4.9100e-003	269.2984
Mobile	0.7998	3.7662	10.9800	0.0379	2.9959	0.0312	3.0271	0.8018	0.0291	0.8309		3,850.6526	3,850.6526	0.1999		3,855.6512
Total	**2.3136**	**4.0351**	**16.1955**	**0.0395**	**2.9959**	**0.0764**	**3.0723**	**0.8018**	**0.0743**	**0.8761**	**0.0000**	**4,127.5703**	**4,127.5703**	**0.2140**	**4.9100e-003**	**4,134.3829**

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	1.3936	0.0592	5.1262	2.7000e-004		0.0283	0.0283		0.0283	0.0283	0.0000	9.2102	9.2102	8.9300e-003	0.0000	9.4334
Energy	0.0245	0.2097	0.0892	1.3400e-003		0.0170	0.0170		0.0170	0.0170		267.7075	267.7075	5.1300e-003	4.9100e-003	269.2984
Mobile	0.7223	3.2822	8.9730	0.0302	2.3588	0.0251	2.3839	0.6313	0.0234	0.6547		3,074.6623	3,074.6623	0.1634		3,078.7473
Total	**2.1403**	**3.5510**	**14.1884**	**0.0318**	**2.3588**	**0.0703**	**2.4291**	**0.6313**	**0.0686**	**0.6999**	**0.0000**	**3,351.5800**	**3,351.5800**	**0.1775**	**4.9100e-003**	**3,357.4790**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**7.49**	**12.00**	**12.39**	**19.37**	**21.27**	**7.98**	**20.94**	**21.27**	**7.67**	**20.11**	**0.00**	**18.80**	**18.80**	**17.07**	**0.00**	**18.79**

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	3/2/2020	3/27/2020	5	20	
2	Site Preparation	Site Preparation	3/28/2020	4/1/2020	5	3	
3	Grading	Grading	4/2/2020	4/9/2020	5	6	
4	Building Construction	Building Construction	4/10/2020	2/11/2021	5	220	
5	Paving	Paving	2/12/2021	2/25/2021	5	10	
6	Architectural Coating	Architectural Coating	2/26/2021	3/11/2021	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 125,550; Residential Outdoor: 41,850; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Artesia HO-O Zone Implementation - Area C - Los Angeles-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	0.10	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Scrapers	1	8.00	367	0.48
Building Construction	Welders	3	8.00	46	0.45

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
Architectural Coating	1	9.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	45.00	7.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	146.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	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

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5820	0.0000	1.5820	0.2395	0.0000	0.2395			0.0000			0.0000
Off-Road	1.5946	15.7097	10.9930	0.0181		0.8644	0.8644		0.8071	0.8071		1,741.7345	1,741.7345	0.4477		1,752.9273
Total	**1.5946**	**15.7097**	**10.9930**	**0.0181**	**1.5820**	**0.8644**	**2.4464**	**0.2395**	**0.8071**	**1.0466**		**1,741.7345**	**1,741.7345**	**0.4477**		**1,752.9273**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0638	2.0991	0.4651	5.7700e-003	0.1276	6.7000e-003	0.1343	0.0350	6.4100e-003	0.0414		624.7572	624.7572	0.0425		625.8204
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	0.0598	0.0426	0.5692	1.5400e-003	0.1453	1.2100e-003	0.1465	0.0385	1.1200e-003	0.0397		152.8947	152.8947	4.8200e-003		153.0152
Total	**0.1236**	**2.1416**	**1.0343**	**7.3100e-003**	**0.2730**	**7.9100e-003**	**0.2809**	**0.0735**	**7.5300e-003**	**0.0811**		**777.6519**	**777.6519**	**0.0473**		**778.8355**

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					0.7119	0.0000	0.7119	0.1078	0.0000	0.1078			0.0000			0.0000
Off-Road	1.5946	15.7097	10.9930	0.0181		0.8644	0.8644		0.8071	0.8071	0.0000	1,741.7345	1,741.7345	0.4477		1,752.9273
Total	**1.5946**	**15.7097**	**10.9930**	**0.0181**	**0.7119**	**0.8644**	**1.5763**	**0.1078**	**0.8071**	**0.9149**	**0.0000**	**1,741.7345**	**1,741.7345**	**0.4477**		**1,752.9273**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0638	2.0991	0.4651	5.7700e-003	0.1276	6.7000e-003	0.1343	0.0350	6.4100e-003	0.0414		624.7572	624.7572	0.0425		625.8204
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	0.0598	0.0426	0.5692	1.5400e-003	0.1453	1.2100e-003	0.1465	0.0385	1.1200e-003	0.0397		152.8947	152.8947	4.8200e-003		153.0152
Total	**0.1236**	**2.1416**	**1.0343**	**7.3100e-003**	**0.2730**	**7.9100e-003**	**0.2809**	**0.0735**	**7.5300e-003**	**0.0811**		**777.6519**	**777.6519**	**0.0473**		**778.8355**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.6521	19.9196	11.2678	0.0245		0.7771	0.7771		0.7149	0.7149		2,372.9062	2,372.9062	0.7675		2,392.0924
Total	**1.6521**	**19.9196**	**11.2678**	**0.0245**	**1.5908**	**0.7771**	**2.3678**	**0.1718**	**0.7149**	**0.8867**		**2,372.9062**	**2,372.9062**	**0.7675**		**2,392.0924**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		94.0890	94.0890	2.9700e-003		94.1632
Total	**0.0368**	**0.0262**	**0.3503**	**9.4000e-004**	**0.0894**	**7.5000e-004**	**0.0902**	**0.0237**	**6.9000e-004**	**0.0244**		**94.0890**	**94.0890**	**2.9700e-003**		**94.1632**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7158	0.0000	0.7158	0.0773	0.0000	0.0773			0.0000			0.0000
Off-Road	1.6521	19.9196	11.2678	0.0245		0.7771	0.7771		0.7149	0.7149	0.0000	2,372.9062	2,372.9062	0.7675		2,392.0924
Total	**1.6521**	**19.9196**	**11.2678**	**0.0245**	**0.7158**	**0.7771**	**1.4929**	**0.0773**	**0.7149**	**0.7922**	**0.0000**	**2,372.9062**	**2,372.9062**	**0.7675**		**2,392.0924**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		94.0890	94.0890	2.9700e-003		94.1632
Total	**0.0368**	**0.0262**	**0.3503**	**9.4000e-004**	**0.0894**	**7.5000e-004**	**0.0902**	**0.0237**	**6.9000e-004**	**0.0244**		**94.0890**	**94.0890**	**2.9700e-003**		**94.1632**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.9219	21.3418	9.9355	0.0206		0.9902	0.9902		0.9110	0.9110		1,996.4061	1,996.4061	0.6457		2,012.5480
Total	**1.9219**	**21.3418**	**9.9355**	**0.0206**	**6.5523**	**0.9902**	**7.5425**	**3.3675**	**0.9110**	**4.2784**		**1,996.4061**	**1,996.4061**	**0.6457**		**2,012.5480**

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0460	0.0327	0.4378	1.1800e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		117.6113	117.6113	3.7100e-003		117.7040
Total	**0.0460**	**0.0327**	**0.4378**	**1.1800e-003**	**0.1118**	**9.3000e-004**	**0.1127**	**0.0296**	**8.6000e-004**	**0.0305**		**117.6113**	**117.6113**	**3.7100e-003**		**117.7040**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9486	0.0000	2.9486	1.5154	0.0000	1.5154			0.0000			0.0000
Off-Road	1.9219	21.3418	9.9355	0.0206		0.9902	0.9902		0.9110	0.9110	0.0000	1,996.4061	1,996.4061	0.6457		2,012.5480
Total	**1.9219**	**21.3418**	**9.9355**	**0.0206**	**2.9486**	**0.9902**	**3.9387**	**1.5154**	**0.9110**	**2.4263**	**0.0000**	**1,996.4061**	**1,996.4061**	**0.6457**		**2,012.5480**

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0460	0.0327	0.4378	1.1800e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		117.6113	117.6113	3.7100e-003		117.7040
Total	**0.0460**	**0.0327**	**0.4378**	**1.1800e-003**	**0.1118**	**9.3000e-004**	**0.1127**	**0.0296**	**8.6000e-004**	**0.0305**		**117.6113**	**117.6113**	**3.7100e-003**		**117.7040**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8401	12.1095	12.8083	0.0193		0.7287	0.7287		0.7070	0.7070		1,737.0830	1,737.0830	0.2861		1,744.2350
Total	**1.8401**	**12.1095**	**12.8083**	**0.0193**		**0.7287**	**0.7287**		**0.7070**	**0.7070**		**1,737.0830**	**1,737.0830**	**0.2861**		**1,744.2350**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0249	0.7446	0.1951	1.8200e-003	0.0448	3.5000e-003	0.0483	0.0129	3.3500e-003	0.0163		193.9173	193.9173	0.0118		194.2131
Worker	0.2071	0.1473	1.9703	5.3100e-003	0.5030	4.2000e-003	0.5072	0.1334	3.8700e-003	0.1373		529.2508	529.2508	0.0167		529.6680
Total	**0.2320**	**0.8919**	**2.1654**	**7.1300e-003**	**0.5478**	**7.7000e-003**	**0.5555**	**0.1463**	**7.2200e-003**	**0.1535**		**723.1681**	**723.1681**	**0.0285**		**723.8811**

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	1.8401	12.1095	12.8083	0.0193		0.7287	0.7287		0.7070	0.7070	0.0000	1,737.0830	1,737.0830	0.2861		1,744.2350
Total	**1.8401**	**12.1095**	**12.8083**	**0.0193**		**0.7287**	**0.7287**		**0.7070**	**0.7070**	**0.0000**	**1,737.0830**	**1,737.0830**	**0.2861**		**1,744.2350**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0249	0.7446	0.1951	1.8200e-003	0.0448	3.5000e-003	0.0483	0.0129	3.3500e-003	0.0163		193.9173	193.9173	0.0118		194.2131
Worker	0.2071	0.1473	1.9703	5.3100e-003	0.5030	4.2000e-003	0.5072	0.1334	3.8700e-003	0.1373		529.2508	529.2508	0.0167		529.6680
Total	**0.2320**	**0.8919**	**2.1654**	**7.1300e-003**	**0.5478**	**7.7000e-003**	**0.5555**	**0.1463**	**7.2200e-003**	**0.1535**		**723.1681**	**723.1681**	**0.0285**		**723.8811**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6373	11.2388	12.6049	0.0193		0.6228	0.6228		0.6042	0.6042		1,737.1810	1,737.1810	0.2719		1,743.9778
Total	**1.6373**	**11.2388**	**12.6049**	**0.0193**		**0.6228**	**0.6228**		**0.6042**	**0.6042**		**1,737.1810**	**1,737.1810**	**0.2719**		**1,743.9778**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0213	0.6796	0.1777	1.8000e-003	0.0448	1.3900e-003	0.0462	0.0129	1.3300e-003	0.0142		192.4164	192.4164	0.0113		192.6998
Worker	0.1929	0.1326	1.8125	5.1400e-003	0.5030	4.0600e-003	0.5071	0.1334	3.7400e-003	0.1371		512.4464	512.4464	0.0151		512.8239
Total	**0.2142**	**0.8122**	**1.9902**	**6.9400e-003**	**0.5478**	**5.4500e-003**	**0.5533**	**0.1463**	**5.0700e-003**	**0.1514**		**704.8629**	**704.8629**	**0.0264**		**705.5238**

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	1.6373	11.2388	12.6049	0.0193		0.6228	0.6228		0.6042	0.6042	0.0000	1,737.1810	1,737.1810	0.2719		1,743.9778
Total	**1.6373**	**11.2388**	**12.6049**	**0.0193**		**0.6228**	**0.6228**		**0.6042**	**0.6042**	**0.0000**	**1,737.1810**	**1,737.1810**	**0.2719**		**1,743.9778**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0213	0.6796	0.1777	1.8000e-003	0.0448	1.3900e-003	0.0462	0.0129	1.3300e-003	0.0142		192.4164	192.4164	0.0113		192.6998
Worker	0.1929	0.1326	1.8125	5.1400e-003	0.5030	4.0600e-003	0.5071	0.1334	3.7400e-003	0.1371		512.4464	512.4464	0.0151		512.8239
Total	**0.2142**	**0.8122**	**1.9902**	**6.9400e-003**	**0.5478**	**5.4500e-003**	**0.5533**	**0.1463**	**5.0700e-003**	**0.1514**		**704.8629**	**704.8629**	**0.0264**		**705.5238**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0633	10.6478	11.7756	0.0178		0.5826	0.5826		0.5371	0.5371		1,709.1107	1,709.1107	0.5417		1,722.6524
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0633**	**10.6478**	**11.7756**	**0.0178**		**0.5826**	**0.5826**		**0.5371**	**0.5371**		**1,709.1107**	**1,709.1107**	**0.5417**		**1,722.6524**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	**0.0643**	**0.0442**	**0.6042**	**1.7100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**170.8155**	**170.8155**	**5.0300e-003**		**170.9413**

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	1.0633	10.6478	11.7756	0.0178		0.5826	0.5826		0.5371	0.5371	0.0000	1,709.1107	1,709.1107	0.5417		1,722.6524
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0633**	**10.6478**	**11.7756**	**0.0178**		**0.5826**	**0.5826**		**0.5371**	**0.5371**	**0.0000**	**1,709.1107**	**1,709.1107**	**0.5417**		**1,722.6524**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	**0.0643**	**0.0442**	**0.6042**	**1.7100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**170.8155**	**170.8155**	**5.0300e-003**		**170.9413**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	38.7950					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**39.0139**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0386	0.0265	0.3625	1.0300e-003	0.1006	8.1000e-004	0.1014	0.0267	7.5000e-004	0.0274		102.4893	102.4893	3.0200e-003		102.5648
Total	**0.0386**	**0.0265**	**0.3625**	**1.0300e-003**	**0.1006**	**8.1000e-004**	**0.1014**	**0.0267**	**7.5000e-004**	**0.0274**		**102.4893**	**102.4893**	**3.0200e-003**		**102.5648**

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	38.7950					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**39.0139**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0386	0.0265	0.3625	1.0300e-003	0.1006	8.1000e-004	0.1014	0.0267	7.5000e-004	0.0274		102.4893	102.4893	3.0200e-003		102.5648
Total	**0.0386**	**0.0265**	**0.3625**	**1.0300e-003**	**0.1006**	**8.1000e-004**	**0.1014**	**0.0267**	**7.5000e-004**	**0.0274**		**102.4893**	**102.4893**	**3.0200e-003**		**102.5648**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Integrate Below Market Rate Housing

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7223	3.2822	8.9730	0.0302	2.3588	0.0251	2.3839	0.6313	0.0234	0.6547		3,074.6623	3,074.6623	0.1634		3,078.7473
Unmitigated	0.7998	3.7662	10.9800	0.0379	2.9959	0.0312	3.0271	0.8018	0.0291	0.8309		3,850.6526	3,850.6526	0.1999		3,855.6512

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	412.30	396.18	363.32	1,377,112	1,084,248
Total	412.30	396.18	363.32	1,377,112	1,084,248

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0245	0.2097	0.0892	1.3400e-003		0.0170	0.0170		0.0170	0.0170		267.7075	267.7075	5.1300e-003	4.9100e-003	269.2984
NaturalGas Unmitigated	0.0245	0.2097	0.0892	1.3400e-003		0.0170	0.0170		0.0170	0.0170		267.7075	267.7075	5.1300e-003	4.9100e-003	269.2984

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2275.51	0.0245	0.2097	0.0892	1.3400e-003		0.0170	0.0170		0.0170	0.0170		267.7075	267.7075	5.1300e-003	4.9100e-003	269.2984
Total		**0.0245**	**0.2097**	**0.0892**	**1.3400e-003**		**0.0170**	**0.0170**		**0.0170**	**0.0170**		**267.7075**	**267.7075**	**5.1300e-003**	**4.9100e-003**	**269.2984**

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 Mid Rise	2.27551	0.0245	0.2097	0.0892	1.3400e-003		0.0170	0.0170		0.0170	0.0170		267.7075	267.7075	5.1300e-003	4.9100e-003	269.2984
Total		**0.0245**	**0.2097**	**0.0892**	**1.3400e-003**		**0.0170**	**0.0170**		**0.0170**	**0.0170**		**267.7075**	**267.7075**	**5.1300e-003**	**4.9100e-003**	**269.2984**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3936	0.0592	5.1262	2.7000e-004		0.0283	0.0283		0.0283	0.0283	0.0000	9.2102	9.2102	8.9300e-003	0.0000	9.4334
Unmitigated	1.4892	0.0592	5.1262	2.7000e-004		0.0283	0.0283		0.0283	0.0283	0.0000	9.2102	9.2102	8.9300e-003	0.0000	9.4334

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	0.1063					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2276					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1553	0.0592	5.1262	2.7000e-004		0.0283	0.0283		0.0283	0.0283		9.2102	9.2102	8.9300e-003		9.4334
Total	**1.4892**	**0.0592**	**5.1262**	**2.7000e-004**		**0.0283**	**0.0283**		**0.0283**	**0.0283**	**0.0000**	**9.2102**	**9.2102**	**8.9300e-003**	**0.0000**	**9.4334**

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	0.0106					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2276					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1553	0.0592	5.1262	2.7000e-004		0.0283	0.0283		0.0283	0.0283		9.2102	9.2102	8.9300e-003		9.4334
Total	**1.3936**	**0.0592**	**5.1262**	**2.7000e-004**		**0.0283**	**0.0283**		**0.0283**	**0.0283**	**0.0000**	**9.2102**	**9.2102**	**8.9300e-003**	**0.0000**	**9.4334**

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

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Artesia HO-O Zone Implementation - Area C

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	62.00	Dwelling Unit	2.05	62,000.00	177

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction hypothesized to start in March 2020 for model purposes.
Project modeled to be operational in 2021.

Land Use - Combined Group C lot area.
Dimensions - L.A. Co. Assessor.

Construction Phase - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment - Cranes anticipated to be used approx 14 days over 200-day consruction period.
14 days/220 days = 0.1 (rounded up) = fractional crane use over whole period.

Off-road Equipment - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment - Estimated real-time use: equipt not expected to be running continuously for 8 hrs/day.
Grading - Assumes no cut/fill. Terrain is flat.

Demolition - Extg bldg square footage obtained from L.A. Co. Assessor.

Trips and VMT - Defaults used.

On-road Fugitive Dust - Defaults used.

Architectural Coating - Defaults used.

Woodstoves - No fireplaces/wood stoves.

Area Coating - Defaults used.

Energy Use - Defaults used.

Water And Wastewater - Defaults used.

Solid Waste - Defaults used.

Land Use Change - No natural vegetation changes - area previously developed, urban.

Sequestration - Assumes 1/4 tree/unit.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Density overall increased from ~ 15/acre to 30/acre.

Area Mitigation - Zero VOC coatings indicated to be 5 g/l or less - used Dunn-Edwards "Everest" zero-VOC paint as example.

Energy Mitigation - Required PV installation per 2018 Title 24 Multifamily Residential on-site solar provision.
See Cal. Energy Comm, Residential Compliance Manual, December 2018, p. 7-1 for calculating PV system size.

Water Mitigation - Defaults used; assume Ti. 24 compliance for low-flow fixtures.

Artesia HO-O Zone Implementation - Area C - Los Angeles-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	5
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	5
tblFireplaces	NumberGas	52.70	0.00
tblFireplaces	NumberNoFireplace	6.20	62.00
tblFireplaces	NumberWood	3.10	0.00
tblLandUse	LotAcreage	1.63	2.05
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	0.10
tblOffRoadEquipment	UsageHours	8.00	6.00
tblOffRoadEquipment	UsageHours	8.00	6.00
tblSequestration	NumberOfNewTrees	0.00	16.00
tblWoodstoves	NumberCatalytic	3.10	0.00
tblWoodstoves	NumberNoncatalytic	3.10	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.0961	21.3781	14.8280	0.0261	6.6641	0.9911	7.6552	3.3971	0.9118	4.3089	0.0000	2,499.6978	2,499.6978	0.7702	0.0000	2,512.1058
2021	39.0568	12.0638	14.4586	0.0259	0.5478	0.6283	1.1761	0.1463	0.6093	0.7556	0.0000	2,406.8359	2,406.8359	0.5464	0.0000	2,414.2897
Maximum	**39.0568**	**21.3781**	**14.8280**	**0.0261**	**6.6641**	**0.9911**	**7.6552**	**3.3971**	**0.9118**	**4.3089**	**0.0000**	**2,499.6978**	**2,499.6978**	**0.7702**	**0.0000**	**2,512.1058**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.0961	21.3781	14.8280	0.0261	3.0603	0.9911	4.0514	1.5450	0.9118	2.4568	0.0000	2,499.6978	2,499.6978	0.7702	0.0000	2,512.1058
2021	39.0568	12.0638	14.4586	0.0259	0.5478	0.6283	1.1761	0.1463	0.6093	0.7556	0.0000	2,406.8359	2,406.8359	0.5464	0.0000	2,414.2897
Maximum	**39.0568**	**21.3781**	**14.8280**	**0.0261**	**3.0603**	**0.9911**	**4.0514**	**1.5450**	**0.9118**	**2.4568**	**0.0000**	**2,499.6978**	**2,499.6978**	**0.7702**	**0.0000**	**2,512.1058**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**49.97**	**0.00**	**40.81**	**52.27**	**0.00**	**36.57**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.4892	0.0592	5.1262	2.7000e-004		0.0283	0.0283		0.0283	0.0283	0.0000	9.2102	9.2102	8.9300e-003	0.0000	9.4334
Energy	0.0245	0.2097	0.0892	1.3400e-003		0.0170	0.0170		0.0170	0.0170		267.7075	267.7075	5.1300e-003	4.9100e-003	269.2984
Mobile	0.7772	3.8656	10.4191	0.0360	2.9959	0.0314	3.0273	0.8018	0.0293	0.8311		3,664.3093	3,664.3093	0.1991		3,669.2856
Total	**2.2909**	**4.1344**	**15.6345**	**0.0376**	**2.9959**	**0.0766**	**3.0725**	**0.8018**	**0.0745**	**0.8763**	**0.0000**	**3,941.2271**	**3,941.2271**	**0.2131**	**4.9100e-003**	**3,948.0173**

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	1.3936	0.0592	5.1262	2.7000e-004		0.0283	0.0283		0.0283	0.0283	0.0000	9.2102	9.2102	8.9300e-003	0.0000	9.4334
Energy	0.0245	0.2097	0.0892	1.3400e-003		0.0170	0.0170		0.0170	0.0170		267.7075	267.7075	5.1300e-003	4.9100e-003	269.2984
Mobile	0.7015	3.3530	8.5983	0.0287	2.3588	0.0253	2.3840	0.6313	0.0236	0.6548		2,924.0046	2,924.0046	0.1635		2,928.0916
Total	**2.1196**	**3.6219**	**13.8137**	**0.0304**	**2.3588**	**0.0705**	**2.4292**	**0.6313**	**0.0688**	**0.7001**	**0.0000**	**3,200.9223**	**3,200.9223**	**0.1775**	**4.9100e-003**	**3,206.8233**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**7.48**	**12.40**	**11.65**	**19.35**	**21.27**	**7.97**	**20.94**	**21.27**	**7.65**	**20.11**	**0.00**	**18.78**	**18.78**	**16.69**	**0.00**	**18.77**

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	3/2/2020	3/27/2020	5	20	
2	Site Preparation	Site Preparation	3/28/2020	4/1/2020	5	3	
3	Grading	Grading	4/2/2020	4/9/2020	5	6	
4	Building Construction	Building Construction	4/10/2020	2/11/2021	5	220	
5	Paving	Paving	2/12/2021	2/25/2021	5	10	
6	Architectural Coating	Architectural Coating	2/26/2021	3/11/2021	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 125,550; Residential Outdoor: 41,850; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Artesia HO-O Zone Implementation - Area C - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	6.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	0.10	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Scrapers	1	8.00	367	0.48
Building Construction	Welders	3	8.00	46	0.45

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
Architectural Coating	1	9.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	45.00	7.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	146.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	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

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5820	0.0000	1.5820	0.2395	0.0000	0.2395			0.0000			0.0000
Off-Road	1.5946	15.7097	10.9930	0.0181		0.8644	0.8644		0.8071	0.8071		1,741.7345	1,741.7345	0.4477		1,752.9273
Total	**1.5946**	**15.7097**	**10.9930**	**0.0181**	**1.5820**	**0.8644**	**2.4464**	**0.2395**	**0.8071**	**1.0466**		**1,741.7345**	**1,741.7345**	**0.4477**		**1,752.9273**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0653	2.1262	0.4943	5.6700e-003	0.1276	6.8000e-003	0.1344	0.0350	6.5100e-003	0.0415		613.9987	613.9987	0.0441		615.1005
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	0.0664	0.0471	0.5213	1.4500e-003	0.1453	1.2100e-003	0.1465	0.0385	1.1200e-003	0.0397		143.9647	143.9647	4.5400e-003		144.0781
Total	**0.1317**	**2.1733**	**1.0156**	**7.1200e-003**	**0.2730**	**8.0100e-003**	**0.2810**	**0.0735**	**7.6300e-003**	**0.0812**		**757.9633**	**757.9633**	**0.0486**		**759.1785**

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					0.7119	0.0000	0.7119	0.1078	0.0000	0.1078			0.0000			0.0000
Off-Road	1.5946	15.7097	10.9930	0.0181		0.8644	0.8644		0.8071	0.8071	0.0000	1,741.7345	1,741.7345	0.4477		1,752.9273
Total	**1.5946**	**15.7097**	**10.9930**	**0.0181**	**0.7119**	**0.8644**	**1.5763**	**0.1078**	**0.8071**	**0.9149**	**0.0000**	**1,741.7345**	**1,741.7345**	**0.4477**		**1,752.9273**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0653	2.1262	0.4943	5.6700e-003	0.1276	6.8000e-003	0.1344	0.0350	6.5100e-003	0.0415		613.9987	613.9987	0.0441		615.1005
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	0.0664	0.0471	0.5213	1.4500e-003	0.1453	1.2100e-003	0.1465	0.0385	1.1200e-003	0.0397		143.9647	143.9647	4.5400e-003		144.0781
Total	**0.1317**	**2.1733**	**1.0156**	**7.1200e-003**	**0.2730**	**8.0100e-003**	**0.2810**	**0.0735**	**7.6300e-003**	**0.0812**		**757.9633**	**757.9633**	**0.0486**		**759.1785**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.6521	19.9196	11.2678	0.0245		0.7771	0.7771		0.7149	0.7149		2,372.9062	2,372.9062	0.7675		2,392.0924
Total	**1.6521**	**19.9196**	**11.2678**	**0.0245**	**1.5908**	**0.7771**	**2.3678**	**0.1718**	**0.7149**	**0.8867**		**2,372.9062**	**2,372.9062**	**0.7675**		**2,392.0924**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0409	0.0290	0.3208	8.9000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		88.5936	88.5936	2.7900e-003		88.6634
Total	**0.0409**	**0.0290**	**0.3208**	**8.9000e-004**	**0.0894**	**7.5000e-004**	**0.0902**	**0.0237**	**6.9000e-004**	**0.0244**		**88.5936**	**88.5936**	**2.7900e-003**		**88.6634**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7158	0.0000	0.7158	0.0773	0.0000	0.0773			0.0000			0.0000
Off-Road	1.6521	19.9196	11.2678	0.0245		0.7771	0.7771		0.7149	0.7149	0.0000	2,372.9062	2,372.9062	0.7675		2,392.0924
Total	**1.6521**	**19.9196**	**11.2678**	**0.0245**	**0.7158**	**0.7771**	**1.4929**	**0.0773**	**0.7149**	**0.7922**	**0.0000**	**2,372.9062**	**2,372.9062**	**0.7675**		**2,392.0924**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0409	0.0290	0.3208	8.9000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		88.5936	88.5936	2.7900e-003		88.6634
Total	**0.0409**	**0.0290**	**0.3208**	**8.9000e-004**	**0.0894**	**7.5000e-004**	**0.0902**	**0.0237**	**6.9000e-004**	**0.0244**		**88.5936**	**88.5936**	**2.7900e-003**		**88.6634**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.9219	21.3418	9.9355	0.0206		0.9902	0.9902		0.9110	0.9110		1,996.4061	1,996.4061	0.6457		2,012.5480
Total	**1.9219**	**21.3418**	**9.9355**	**0.0206**	**6.5523**	**0.9902**	**7.5425**	**3.3675**	**0.9110**	**4.2784**		**1,996.4061**	**1,996.4061**	**0.6457**		**2,012.5480**

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0511	0.0363	0.4010	1.1100e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		110.7420	110.7420	3.4900e-003		110.8293
Total	**0.0511**	**0.0363**	**0.4010**	**1.1100e-003**	**0.1118**	**9.3000e-004**	**0.1127**	**0.0296**	**8.6000e-004**	**0.0305**		**110.7420**	**110.7420**	**3.4900e-003**		**110.8293**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9486	0.0000	2.9486	1.5154	0.0000	1.5154			0.0000			0.0000
Off-Road	1.9219	21.3418	9.9355	0.0206		0.9902	0.9902		0.9110	0.9110	0.0000	1,996.4061	1,996.4061	0.6457		2,012.5480
Total	**1.9219**	**21.3418**	**9.9355**	**0.0206**	**2.9486**	**0.9902**	**3.9387**	**1.5154**	**0.9110**	**2.4263**	**0.0000**	**1,996.4061**	**1,996.4061**	**0.6457**		**2,012.5480**

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0511	0.0363	0.4010	1.1100e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		110.7420	110.7420	3.4900e-003		110.8293
Total	**0.0511**	**0.0363**	**0.4010**	**1.1100e-003**	**0.1118**	**9.3000e-004**	**0.1127**	**0.0296**	**8.6000e-004**	**0.0305**		**110.7420**	**110.7420**	**3.4900e-003**		**110.8293**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8401	12.1095	12.8083	0.0193		0.7287	0.7287		0.7070	0.7070		1,737.0830	1,737.0830	0.2861		1,744.2350
Total	**1.8401**	**12.1095**	**12.8083**	**0.0193**		**0.7287**	**0.7287**		**0.7070**	**0.7070**		**1,737.0830**	**1,737.0830**	**0.2861**		**1,744.2350**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0260	0.7445	0.2152	1.7700e-003	0.0448	3.5600e-003	0.0484	0.0129	3.4100e-003	0.0163		188.6144	188.6144	0.0126		188.9297
Worker	0.2300	0.1631	1.8046	5.0000e-003	0.5030	4.2000e-003	0.5072	0.1334	3.8700e-003	0.1373		498.3392	498.3392	0.0157		498.7319
Total	**0.2560**	**0.9076**	**2.0197**	**6.7700e-003**	**0.5478**	**7.7600e-003**	**0.5556**	**0.1463**	**7.2800e-003**	**0.1536**		**686.9535**	**686.9535**	**0.0283**		**687.6615**

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	1.8401	12.1095	12.8083	0.0193		0.7287	0.7287		0.7070	0.7070	0.0000	1,737.0830	1,737.0830	0.2861		1,744.2350
Total	**1.8401**	**12.1095**	**12.8083**	**0.0193**		**0.7287**	**0.7287**		**0.7070**	**0.7070**	**0.0000**	**1,737.0830**	**1,737.0830**	**0.2861**		**1,744.2350**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0260	0.7445	0.2152	1.7700e-003	0.0448	3.5600e-003	0.0484	0.0129	3.4100e-003	0.0163		188.6144	188.6144	0.0126		188.9297
Worker	0.2300	0.1631	1.8046	5.0000e-003	0.5030	4.2000e-003	0.5072	0.1334	3.8700e-003	0.1373		498.3392	498.3392	0.0157		498.7319
Total	**0.2560**	**0.9076**	**2.0197**	**6.7700e-003**	**0.5478**	**7.7600e-003**	**0.5556**	**0.1463**	**7.2800e-003**	**0.1536**		**686.9535**	**686.9535**	**0.0283**		**687.6615**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6373	11.2388	12.6049	0.0193		0.6228	0.6228		0.6042	0.6042		1,737.1810	1,737.1810	0.2719		1,743.9778
Total	**1.6373**	**11.2388**	**12.6049**	**0.0193**		**0.6228**	**0.6228**		**0.6042**	**0.6042**		**1,737.1810**	**1,737.1810**	**0.2719**		**1,743.9778**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0223	0.6782	0.1965	1.7500e-003	0.0448	1.4300e-003	0.0463	0.0129	1.3700e-003	0.0143		187.1419	187.1419	0.0121		187.4439
Worker	0.2146	0.1468	1.6572	4.8400e-003	0.5030	4.0600e-003	0.5071	0.1334	3.7400e-003	0.1371		482.5130	482.5130	0.0142		482.8680
Total	**0.2369**	**0.8250**	**1.8537**	**6.5900e-003**	**0.5478**	**5.4900e-003**	**0.5533**	**0.1463**	**5.1100e-003**	**0.1514**		**669.6549**	**669.6549**	**0.0263**		**670.3119**

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	1.6373	11.2388	12.6049	0.0193		0.6228	0.6228		0.6042	0.6042	0.0000	1,737.1810	1,737.1810	0.2719		1,743.9778
Total	**1.6373**	**11.2388**	**12.6049**	**0.0193**		**0.6228**	**0.6228**		**0.6042**	**0.6042**	**0.0000**	**1,737.1810**	**1,737.1810**	**0.2719**		**1,743.9778**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0223	0.6782	0.1965	1.7500e-003	0.0448	1.4300e-003	0.0463	0.0129	1.3700e-003	0.0143		187.1419	187.1419	0.0121		187.4439
Worker	0.2146	0.1468	1.6572	4.8400e-003	0.5030	4.0600e-003	0.5071	0.1334	3.7400e-003	0.1371		482.5130	482.5130	0.0142		482.8680
Total	**0.2369**	**0.8250**	**1.8537**	**6.5900e-003**	**0.5478**	**5.4900e-003**	**0.5533**	**0.1463**	**5.1100e-003**	**0.1514**		**669.6549**	**669.6549**	**0.0263**		**670.3119**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0633	10.6478	11.7756	0.0178		0.5826	0.5826		0.5371	0.5371		1,709.1107	1,709.1107	0.5417		1,722.6524
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0633**	**10.6478**	**11.7756**	**0.0178**		**0.5826**	**0.5826**		**0.5371**	**0.5371**		**1,709.1107**	**1,709.1107**	**0.5417**		**1,722.6524**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	**0.0715**	**0.0489**	**0.5524**	**1.6100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**160.8377**	**160.8377**	**4.7300e-003**		**160.9560**

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	1.0633	10.6478	11.7756	0.0178		0.5826	0.5826		0.5371	0.5371	0.0000	1,709.1107	1,709.1107	0.5417		1,722.6524
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0633**	**10.6478**	**11.7756**	**0.0178**		**0.5826**	**0.5826**		**0.5371**	**0.5371**	**0.0000**	**1,709.1107**	**1,709.1107**	**0.5417**		**1,722.6524**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	**0.0715**	**0.0489**	**0.5524**	**1.6100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**160.8377**	**160.8377**	**4.7300e-003**		**160.9560**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	38.7950					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**39.0139**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0429	0.0294	0.3314	9.7000e-004	0.1006	8.1000e-004	0.1014	0.0267	7.5000e-004	0.0274		96.5026	96.5026	2.8400e-003		96.5736
Total	**0.0429**	**0.0294**	**0.3314**	**9.7000e-004**	**0.1006**	**8.1000e-004**	**0.1014**	**0.0267**	**7.5000e-004**	**0.0274**		**96.5026**	**96.5026**	**2.8400e-003**		**96.5736**

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	38.7950					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**39.0139**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0429	0.0294	0.3314	9.7000e-004	0.1006	8.1000e-004	0.1014	0.0267	7.5000e-004	0.0274		96.5026	96.5026	2.8400e-003		96.5736
Total	**0.0429**	**0.0294**	**0.3314**	**9.7000e-004**	**0.1006**	**8.1000e-004**	**0.1014**	**0.0267**	**7.5000e-004**	**0.0274**		**96.5026**	**96.5026**	**2.8400e-003**		**96.5736**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

Integrate Below Market Rate Housing

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7015	3.3530	8.5983	0.0287	2.3588	0.0253	2.3840	0.6313	0.0236	0.6548		2,924.0046	2,924.0046	0.1635		2,928.0916
Unmitigated	0.7772	3.8656	10.4191	0.0360	2.9959	0.0314	3.0273	0.8018	0.0293	0.8311		3,664.3093	3,664.3093	0.1991		3,669.2856

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	412.30	396.18	363.32	1,377,112	1,084,248
Total	412.30	396.18	363.32	1,377,112	1,084,248

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0245	0.2097	0.0892	1.3400e-003		0.0170	0.0170		0.0170	0.0170		267.7075	267.7075	5.1300e-003	4.9100e-003	269.2984
NaturalGas Unmitigated	0.0245	0.2097	0.0892	1.3400e-003		0.0170	0.0170		0.0170	0.0170		267.7075	267.7075	5.1300e-003	4.9100e-003	269.2984

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2275.51	0.0245	0.2097	0.0892	1.3400e-003		0.0170	0.0170		0.0170	0.0170		267.7075	267.7075	5.1300e-003	4.9100e-003	269.2984
Total		**0.0245**	**0.2097**	**0.0892**	**1.3400e-003**		**0.0170**	**0.0170**		**0.0170**	**0.0170**		**267.7075**	**267.7075**	**5.1300e-003**	**4.9100e-003**	**269.2984**

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 Mid Rise	2.27551	0.0245	0.2097	0.0892	1.3400e-003		0.0170	0.0170		0.0170	0.0170		267.7075	267.7075	5.1300e-003	4.9100e-003	269.2984
Total		**0.0245**	**0.2097**	**0.0892**	**1.3400e-003**		**0.0170**	**0.0170**		**0.0170**	**0.0170**		**267.7075**	**267.7075**	**5.1300e-003**	**4.9100e-003**	**269.2984**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3936	0.0592	5.1262	2.7000e-004		0.0283	0.0283		0.0283	0.0283	0.0000	9.2102	9.2102	8.9300e-003	0.0000	9.4334
Unmitigated	1.4892	0.0592	5.1262	2.7000e-004		0.0283	0.0283		0.0283	0.0283	0.0000	9.2102	9.2102	8.9300e-003	0.0000	9.4334

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	0.1063					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2276					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1553	0.0592	5.1262	2.7000e-004		0.0283	0.0283		0.0283	0.0283		9.2102	9.2102	8.9300e-003		9.4334
Total	**1.4892**	**0.0592**	**5.1262**	**2.7000e-004**		**0.0283**	**0.0283**		**0.0283**	**0.0283**	**0.0000**	**9.2102**	**9.2102**	**8.9300e-003**	**0.0000**	**9.4334**

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	0.0106					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2276					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1553	0.0592	5.1262	2.7000e-004		0.0283	0.0283		0.0283	0.0283		9.2102	9.2102	8.9300e-003		9.4334
Total	**1.3936**	**0.0592**	**5.1262**	**2.7000e-004**		**0.0283**	**0.0283**		**0.0283**	**0.0283**	**0.0000**	**9.2102**	**9.2102**	**8.9300e-003**	**0.0000**	**9.4334**

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

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Artesia HO-O Zone Implementation - Area C

Los Angeles-South Coast County, Mitigation Report

Construction Mitigation Summary

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

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	1	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	2	No Change	0.00
Graders	Diesel	No Change	0	2	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	8	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	1	No Change	0.00
Scrapers	Diesel	No Change	0	1	No Change	0.00
Welders	Diesel	No Change	0	3	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Air Compressors	1.09000E-003	7.63000E-003	9.09000E-003	1.00000E-005	4.70000E-004	4.70000E-004	0.00000E+000	1.27663E+000	1.27663E+000	9.00000E-005	0.00000E+000	1.27882E+000
Cement and Mortar Mixers	2.90000E-004	1.84000E-003	1.54000E-003	0.00000E+000	7.00000E-005	7.00000E-005	0.00000E+000	2.29140E-001	2.29140E-001	2.00000E-005	0.00000E+000	2.29730E-001
Concrete/Industrial Saws	3.14000E-003	2.47400E-002	2.76500E-002	5.00000E-005	1.49000E-003	1.49000E-003	0.00000E+000	4.03242E+000	4.03242E+000	2.60000E-004	0.00000E+000	4.03881E+000
Cranes	6.20000E-004	7.31000E-003	2.88000E-003	1.00000E-005	3.00000E-004	2.80000E-004	0.00000E+000	6.97010E-001	6.97010E-001	2.30000E-004	0.00000E+000	7.02650E-001
Forklifts	2.73400E-002	2.46660E-001	2.26870E-001	2.90000E-004	1.82700E-002	1.68100E-002	0.00000E+000	2.58511E+001	2.58511E+001	8.36000E-003	0.00000E+000	2.60601E+001
Generator Sets	4.32700E-002	3.77960E-001	4.07300E-001	7.20000E-004	2.11600E-002	2.11600E-002	0.00000E+000	6.21728E+001	6.21728E+001	3.46000E-003	0.00000E+000	6.22592E+001
Graders	2.14000E-003	2.84600E-002	8.17000E-003	3.00000E-005	9.10000E-004	8.40000E-004	0.00000E+000	2.62379E+000	2.62379E+000	8.50000E-004	0.00000E+000	2.64501E+000
Pavers	1.23000E-003	1.29800E-002	1.45200E-002	2.00000E-005	6.30000E-004	5.80000E-004	0.00000E+000	2.06412E+000	2.06412E+000	6.70000E-004	0.00000E+000	2.08081E+000
Paving Equipment	9.60000E-004	9.70000E-003	1.27100E-002	2.00000E-005	4.80000E-004	4.40000E-004	0.00000E+000	1.78922E+000	1.78922E+000	5.80000E-004	0.00000E+000	1.80369E+000
Rollers	1.89000E-003	1.92400E-002	1.88000E-002	3.00000E-005	1.18000E-003	1.08000E-003	0.00000E+000	2.30506E+000	2.30506E+000	7.50000E-004	0.00000E+000	2.32369E+000
Rubber Tired Dozers	1.13300E-002	1.18990E-001	4.33800E-002	9.00000E-005	5.83000E-003	5.36000E-003	0.00000E+000	7.88080E+000	7.88080E+000	2.55000E-003	0.00000E+000	7.94452E+000
Scrapers	1.49000E-003	1.76300E-002	1.11900E-002	2.00000E-005	6.90000E-004	6.30000E-004	0.00000E+000	1.99628E+000	1.99628E+000	6.50000E-004	0.00000E+000	2.01242E+000
Tractors/Loaders/Backhoes	2.40600E-002	2.41980E-001	2.65410E-001	3.60000E-004	1.51700E-002	1.39600E-002	0.00000E+000	3.18063E+001	3.18063E+001	1.02900E-002	0.00000E+000	3.20635E+001
Welders	1.11110E-001	5.15730E-001	5.80950E-001	8.40000E-004	2.81000E-002	2.81000E-002	0.00000E+000	6.21128E+001	6.21128E+001	9.03000E-003	0.00000E+000	6.23386E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Mitigated tons/yr						Mitigated mt/yr					
Air Compressors	1.09000E-003	7.63000E-003	9.09000E-003	1.00000E-005	4.70000E-004	4.70000E-004	0.00000E+000	1.27663E+000	1.27663E+000	9.00000E-005	0.00000E+000	1.27882E+000
Cement and Mortar Mixers	2.90000E-004	1.84000E-003	1.54000E-003	0.00000E+000	7.00000E-005	7.00000E-005	0.00000E+000	2.29140E-001	2.29140E-001	2.00000E-005	0.00000E+000	2.29730E-001
Concrete/Industrial Saws	3.14000E-003	2.47400E-002	2.76500E-002	5.00000E-005	1.49000E-003	1.49000E-003	0.00000E+000	4.03242E+000	4.03242E+000	2.60000E-004	0.00000E+000	4.03880E+000
Cranes	6.20000E-004	7.31000E-003	2.88000E-003	1.00000E-005	3.00000E-004	2.80000E-004	0.00000E+000	6.97010E-001	6.97010E-001	2.30000E-004	0.00000E+000	7.02650E-001
Forklifts	2.73400E-002	2.46660E-001	2.26870E-001	2.90000E-004	1.82700E-002	1.68100E-002	0.00000E+000	2.58511E+001	2.58511E+001	8.36000E-003	0.00000E+000	2.60601E+001
Generator Sets	4.32700E-002	3.77960E-001	4.07300E-001	7.20000E-004	2.11600E-002	2.11600E-002	0.00000E+000	6.21728E+001	6.21728E+001	3.46000E-003	0.00000E+000	6.22592E+001
Graders	2.14000E-003	2.84600E-002	8.17000E-003	3.00000E-005	9.10000E-004	8.40000E-004	0.00000E+000	2.62379E+000	2.62379E+000	8.50000E-004	0.00000E+000	2.64500E+000
Pavers	1.23000E-003	1.29800E-002	1.45200E-002	2.00000E-005	6.30000E-004	5.80000E-004	0.00000E+000	2.06412E+000	2.06412E+000	6.70000E-004	0.00000E+000	2.08081E+000
Paving Equipment	9.60000E-004	9.70000E-003	1.27100E-002	2.00000E-005	4.80000E-004	4.40000E-004	0.00000E+000	1.78922E+000	1.78922E+000	5.80000E-004	0.00000E+000	1.80369E+000
Rollers	1.89000E-003	1.92400E-002	1.88000E-002	3.00000E-005	1.18000E-003	1.08000E-003	0.00000E+000	2.30505E+000	2.30505E+000	7.50000E-004	0.00000E+000	2.32369E+000
Rubber Tired Dozers	1.13300E-002	1.18990E-001	4.33800E-002	9.00000E-005	5.83000E-003	5.36000E-003	0.00000E+000	7.88079E+000	7.88079E+000	2.55000E-003	0.00000E+000	7.94451E+000
Scrapers	1.49000E-003	1.76300E-002	1.11900E-002	2.00000E-005	6.90000E-004	6.30000E-004	0.00000E+000	1.99628E+000	1.99628E+000	6.50000E-004	0.00000E+000	2.01242E+000
Tractors/Loaders/Backhoes	2.40600E-002	2.41980E-001	2.65410E-001	3.60000E-004	1.51700E-002	1.39600E-002	0.00000E+000	3.18063E+001	3.18063E+001	1.02900E-002	0.00000E+000	3.20635E+001
Welders	1.11110E-001	5.15730E-001	5.80950E-001	8.40000E-004	2.81000E-002	2.81000E-002	0.00000E+000	6.21127E+001	6.21127E+001	9.03000E-003	0.00000E+000	6.23385E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.47598E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.16049E-006	1.16049E-006	0.00000E+000	0.00000E+000	1.15119E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.12589E-006	1.12589E-006	0.00000E+000	0.00000E+000	1.12433E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	3.78070E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	4.33828E-006	4.33828E-006	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.26891E-006	1.26891E-006	0.00000E+000	0.00000E+000	1.25873E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.25761E-006	1.25761E-006	0.00000E+000	0.00000E+000	1.24752E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.28798E-006	1.28798E-006	0.00000E+000	0.00000E+000	1.12290E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input		Mitigation Input		Mitigation Input	
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00

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

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.06	0.02	0.06	0.02	0.00	0.00
Demolition	Fugitive Dust	0.02	0.00	0.01	0.00	0.55	0.55
Demolition	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Grading	Fugitive Dust	0.02	0.01	0.01	0.00	0.55	0.55
Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.00	0.00	0.00	0.00	0.55	0.54
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	90.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.00	0.00	0.05
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	10.04	13.28	17.69	20.15	19.46	19.65	0.00	20.16	20.16	18.03	0.00	20.15
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	15.14	15.37	19.96	19.82	15.99
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting: Urban

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
Yes	Land Use	Increase Density	0.00	30.00		
No	Land Use	Increase Diversity	-0.01	0.13		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
Yes	Land Use	Integrate Below Market Rate Housing	0.01	20.00		
	Land Use	Land Use SubTotal	0.21			

No	Neighborhood Enhancements	Improve Pedestrian Network				
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.21			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"	7.70			
No	Commute	Workplace Parking Charge				
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00		2.00	
No	Commute	Provide Ride Sharing Program	15.00			
	Commute	Commute Subtotal	0.00			

No	School Trip	Implement School Bus Program	0.00			
		Total VMT Reduction	0.21			

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
Yes	No Hearth	
No	Use Low VOC Cleaning Supplies	
Yes	Use Low VOC Paint (Residential Interior)	5.00
Yes	Use Low VOC Paint (Residential Exterior)	5.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
Yes	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
Yes	On-site Renewable	121.27	

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

Water Mitigation Measures

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

Solid Waste Mitigation

Mitigation Measures	Input Value

Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

Artesia HO-O Zone Implementation - Area D

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	47.00	Dwelling Unit	1.58	47,000.00	134

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction hypothesized to start in March 2020 for model purposes.
Project modeled to be operational in 2021.

Land Use - Combined Group D lot area.
Dimensions - L.A. Co. Assessor.

Construction Phase - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment -

Off-road Equipment - Cranes anticipated to be used approx 14 days over 200-day consruction period.
14 days/200 days = 0.1 = fractional crane use over whole period.

Off-road Equipment - Assumes no cut/fill. Terrain is flat.

Off-road Equipment - Defaults used.

Off-road Equipment - Defaults used.
Grading - Defaults used. No cut/fill.

Demolition - Extg bldg square footage obtained from L.A. Co. Assessor.

Trips and VMT - Defaults used.

On-road Fugitive Dust - Defaults used.

Architectural Coating - Defaults used.

Woodstoves - No fireplaces/wood stoves.

Area Coating -

Energy Use - Defaults used.

Water And Wastewater - Defaults used.

Solid Waste - Defaults used.

Land Use Change - No natural vegetation changes - area previously developed, urban.

Sequestration - Assumes 1/4 tree/unit.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Increased average density from 15 du/acre to 30 du/acre.

Area Mitigation - Zero VOC coatings indicated to be 5 g/l or less - used Dunn-Edwards "Everest" zero-VOC paint as example.

Energy Mitigation - Required PV installation per 2018 Title 24 Multifamily Residential on-site solar provision.
See Cal. Energy Comm, Residential Compliance Manual, December 2018, p. 7-1 for calculating PV system size.

Water Mitigation - Defaults used; assume Ti. 24 compliance for low-flow fixtures.

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Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	5
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	5
tblFireplaces	NumberGas	39.95	0.00
tblFireplaces	NumberNoFireplace	4.70	47.00
tblFireplaces	NumberWood	2.35	0.00
tblLandUse	LotAcreage	1.24	1.58
tblOffRoadEquipment	UsageHours	6.00	0.10
tblSequestration	NumberOfNewTrees	0.00	12.00
tblWoodstoves	NumberCatalytic	2.35	0.00
tblWoodstoves	NumberNoncatalytic	2.35	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.2072	1.3767	1.4471	2.5400e-003	0.0644	0.0753	0.1397	0.0202	0.0730	0.0932	0.0000	213.8983	213.8983	0.0296	0.0000	214.6386
2021	0.1583	0.0840	0.1022	1.7000e-004	2.5100e-003	4.4600e-003	6.9700e-003	6.7000e-004	4.2500e-003	4.9200e-003	0.0000	14.8020	14.8020	2.7500e-003	0.0000	14.8708
Maximum	**0.2072**	**1.3767**	**1.4471**	**2.5400e-003**	**0.0644**	**0.0753**	**0.1397**	**0.0202**	**0.0730**	**0.0932**	**0.0000**	**213.8983**	**213.8983**	**0.0296**	**0.0000**	**214.6386**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.2072	1.3767	1.4471	2.5400e-003	0.0517	0.0753	0.1270	0.0152	0.0730	0.0881	0.0000	213.8981	213.8981	0.0296	0.0000	214.6384
2021	0.1583	0.0840	0.1022	1.7000e-004	2.5100e-003	4.4600e-003	6.9700e-003	6.7000e-004	4.2500e-003	4.9200e-003	0.0000	14.8020	14.8020	2.7500e-003	0.0000	14.8708
Maximum	**0.2072**	**1.3767**	**1.4471**	**2.5400e-003**	**0.0517**	**0.0753**	**0.1270**	**0.0152**	**0.0730**	**0.0881**	**0.0000**	**213.8981**	**213.8981**	**0.0296**	**0.0000**	**214.6384**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**19.01**	**0.00**	**8.68**	**24.12**	**0.00**	**5.13**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-2-2020	6-1-2020	0.5554	0.5554
2	6-2-2020	9-1-2020	0.4378	0.4378
3	9-2-2020	12-1-2020	0.4337	0.4337
4	12-2-2020	3-1-2021	0.3907	0.3907
		Highest	0.5554	0.5554

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	0.1993	5.6100e-003	0.4858	3.0000e-005		2.6800e-003	2.6800e-003		2.6800e-003	2.6800e-003	0.0000	0.7917	0.7917	7.7000e-004	0.0000	0.8109
Energy	3.4000e-003	0.0290	0.0124	1.9000e-004		2.3500e-003	2.3500e-003		2.3500e-003	2.3500e-003	0.0000	94.2211	94.2211	3.1500e-003	1.1300e-003	94.6376
Mobile	0.1025	0.5311	1.4255	4.9300e-003	0.3962	4.2100e-003	0.4004	0.1062	3.9300e-003	0.1101	0.0000	454.5677	454.5677	0.0243	0.0000	455.1744
Waste						0.0000	0.0000		0.0000	0.0000	4.3887	0.0000	4.3887	0.2594	0.0000	10.8727
Water						0.0000	0.0000		0.0000	0.0000	0.9715	19.5384	20.5099	0.1006	2.5200e-003	23.7765
Total	**0.3051**	**0.5657**	**1.9236**	**5.1500e-003**	**0.3962**	**9.2400e-003**	**0.4055**	**0.1062**	**8.9600e-003**	**0.1152**	**5.3602**	**569.1190**	**574.4791**	**0.3881**	**3.6500e-003**	**585.2722**

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	0.1860	5.6100e-003	0.4858	3.0000e-005		2.6800e-003	2.6800e-003		2.6800e-003	2.6800e-003	0.0000	0.7917	0.7917	7.7000e-004	0.0000	0.8109
Energy	3.4000e-003	0.0290	0.0124	1.9000e-004		2.3500e-003	2.3500e-003		2.3500e-003	2.3500e-003	0.0000	94.1883	94.1883	3.1500e-003	1.1300e-003	94.6047
Mobile	0.0925	0.4627	1.1809	3.9600e-003	0.3145	3.4100e-003	0.3179	0.0843	3.1900e-003	0.0875	0.0000	365.6736	365.6736	0.0200	0.0000	366.1742
Waste						0.0000	0.0000		0.0000	0.0000	4.3887	0.0000	4.3887	0.2594	0.0000	10.8727
Water						0.0000	0.0000		0.0000	0.0000	0.7772	16.5807	17.3579	0.0805	2.0300e-003	19.9745
Total	**0.2819**	**0.4973**	**1.6790**	**4.1800e-003**	**0.3145**	**8.4400e-003**	**0.3229**	**0.0843**	**8.2200e-003**	**0.0925**	**5.1659**	**477.2343**	**482.4002**	**0.3638**	**3.1600e-003**	**492.4371**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**7.61**	**12.10**	**12.72**	**18.83**	**20.63**	**8.66**	**20.36**	**20.63**	**8.26**	**19.68**	**3.62**	**16.15**	**16.03**	**6.27**	**13.42**	**15.86**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	8.4960
Total	**8.4960**

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	3/2/2020	3/27/2020	5	20	
2	Site Preparation	Site Preparation	3/28/2020	3/31/2020	5	2	
3	Grading	Grading	4/1/2020	4/6/2020	5	4	
4	Building Construction	Building Construction	4/7/2020	1/11/2021	5	200	
5	Paving	Paving	1/12/2021	1/25/2021	5	10	
6	Architectural Coating	Architectural Coating	1/26/2021	2/8/2021	5	10	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 95,175; Residential Outdoor: 31,725; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	0.10	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Building Construction	Welders	3	8.00	46	0.45

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
Architectural Coating	1	7.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	34.00	5.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	69.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	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
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5000e-003	0.0000	7.5000e-003	1.1400e-003	0.0000	1.1400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0213	0.2095	0.1466	2.4000e-004		0.0115	0.0115		0.0108	0.0108	0.0000	21.0677	21.0677	5.4200e-003	0.0000	21.2031
Total	**0.0213**	**0.2095**	**0.1466**	**2.4000e-004**	**7.5000e-003**	**0.0115**	**0.0190**	**1.1400e-003**	**0.0108**	**0.0119**	**0.0000**	**21.0677**	**21.0677**	**5.4200e-003**	**0.0000**	**21.2031**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-004	0.0103	2.2600e-003	3.0000e-005	5.9000e-004	3.0000e-005	6.2000e-004	1.6000e-004	3.0000e-005	1.9000e-004	0.0000	2.6592	2.6592	1.9000e-004	0.0000	2.6638
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-004	4.8000e-004	5.3500e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.3278	1.3278	4.0000e-005	0.0000	1.3288
Total	**9.0000e-004**	**0.0107**	**7.6100e-003**	**4.0000e-005**	**2.0100e-003**	**4.0000e-005**	**2.0600e-003**	**5.4000e-004**	**4.0000e-005**	**5.8000e-004**	**0.0000**	**3.9870**	**3.9870**	**2.3000e-004**	**0.0000**	**3.9926**

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					3.3800e-003	0.0000	3.3800e-003	5.1000e-004	0.0000	5.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0213	0.2095	0.1466	2.4000e-004		0.0115	0.0115		0.0108	0.0108	0.0000	21.0676	21.0676	5.4200e-003	0.0000	21.2030
Total	**0.0213**	**0.2095**	**0.1466**	**2.4000e-004**	**3.3800e-003**	**0.0115**	**0.0149**	**5.1000e-004**	**0.0108**	**0.0113**	**0.0000**	**21.0676**	**21.0676**	**5.4200e-003**	**0.0000**	**21.2030**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.0000e-004	0.0103	2.2600e-003	3.0000e-005	5.9000e-004	3.0000e-005	6.2000e-004	1.6000e-004	3.0000e-005	1.9000e-004	0.0000	2.6592	2.6592	1.9000e-004	0.0000	2.6638
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-004	4.8000e-004	5.3500e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.3278	1.3278	4.0000e-005	0.0000	1.3288
Total	**9.0000e-004**	**0.0107**	**7.6100e-003**	**4.0000e-005**	**2.0100e-003**	**4.0000e-005**	**2.0600e-003**	**5.4000e-004**	**4.0000e-005**	**5.8000e-004**	**0.0000**	**3.9870**	**3.9870**	**2.3000e-004**	**0.0000**	**3.9926**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.8000e-003	0.0000	5.8000e-003	2.9500e-003	0.0000	2.9500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0184	7.7100e-003	2.0000e-005		8.2000e-004	8.2000e-004		7.6000e-004	7.6000e-004	0.0000	1.5127	1.5127	4.9000e-004	0.0000	1.5249
Total	**1.6300e-003**	**0.0184**	**7.7100e-003**	**2.0000e-005**	**5.8000e-003**	**8.2000e-004**	**6.6200e-003**	**2.9500e-003**	**7.6000e-004**	**3.7100e-003**	**0.0000**	**1.5127**	**1.5127**	**4.9000e-004**	**0.0000**	**1.5249**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	3.3000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0817	0.0817	0.0000	0.0000	0.0818
Total	**4.0000e-005**	**3.0000e-005**	**3.3000e-004**	**0.0000**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0817**	**0.0817**	**0.0000**	**0.0000**	**0.0818**

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					2.6100e-003	0.0000	2.6100e-003	1.3300e-003	0.0000	1.3300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6300e-003	0.0184	7.7100e-003	2.0000e-005		8.2000e-004	8.2000e-004		7.6000e-004	7.6000e-004	0.0000	1.5127	1.5127	4.9000e-004	0.0000	1.5249
Total	**1.6300e-003**	**0.0184**	**7.7100e-003**	**2.0000e-005**	**2.6100e-003**	**8.2000e-004**	**3.4300e-003**	**1.3300e-003**	**7.6000e-004**	**2.0900e-003**	**0.0000**	**1.5127**	**1.5127**	**4.9000e-004**	**0.0000**	**1.5249**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	3.3000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0817	0.0817	0.0000	0.0000	0.0818
Total	**4.0000e-005**	**3.0000e-005**	**3.3000e-004**	**0.0000**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**2.0000e-005**	**0.0000**	**2.0000e-005**	**0.0000**	**0.0817**	**0.0817**	**0.0000**	**0.0000**	**0.0818**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.8300e-003	0.0000	9.8300e-003	5.0500e-003	0.0000	5.0500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7000e-003	0.0302	0.0129	3.0000e-005		1.3700e-003	1.3700e-003		1.2600e-003	1.2600e-003	0.0000	2.4779	2.4779	8.0000e-004	0.0000	2.4980
Total	**2.7000e-003**	**0.0302**	**0.0129**	**3.0000e-005**	**9.8300e-003**	**1.3700e-003**	**0.0112**	**5.0500e-003**	**1.2600e-003**	**6.3100e-003**	**0.0000**	**2.4779**	**2.4779**	**8.0000e-004**	**0.0000**	**2.4980**

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	6.0000e-005	6.6000e-004	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1634	0.1634	1.0000e-005	0.0000	0.1635
Total	**7.0000e-005**	**6.0000e-005**	**6.6000e-004**	**0.0000**	**1.8000e-004**	**0.0000**	**1.8000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.1634**	**0.1634**	**1.0000e-005**	**0.0000**	**0.1635**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.4200e-003	0.0000	4.4200e-003	2.2700e-003	0.0000	2.2700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7000e-003	0.0302	0.0129	3.0000e-005		1.3700e-003	1.3700e-003		1.2600e-003	1.2600e-003	0.0000	2.4779	2.4779	8.0000e-004	0.0000	2.4980
Total	**2.7000e-003**	**0.0302**	**0.0129**	**3.0000e-005**	**4.4200e-003**	**1.3700e-003**	**5.7900e-003**	**2.2700e-003**	**1.2600e-003**	**3.5300e-003**	**0.0000**	**2.4779**	**2.4779**	**8.0000e-004**	**0.0000**	**2.4980**

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-005	6.0000e-005	6.6000e-004	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1634	0.1634	1.0000e-005	0.0000	0.1635
Total	**7.0000e-005**	**6.0000e-005**	**6.6000e-004**	**0.0000**	**1.8000e-004**	**0.0000**	**1.8000e-004**	**5.0000e-005**	**0.0000**	**5.0000e-005**	**0.0000**	**0.1634**	**0.1634**	**1.0000e-005**	**0.0000**	**0.1635**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1637	1.0434	1.1221	1.7200e-003		0.0610	0.0610		0.0596	0.0596	0.0000	139.1109	139.1109	0.0209	0.0000	139.6322
Total	**0.1637**	**1.0434**	**1.1221**	**1.7200e-003**		**0.0610**	**0.0610**		**0.0596**	**0.0596**	**0.0000**	**139.1109**	**139.1109**	**0.0209**	**0.0000**	**139.6322**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7500e-003	0.0523	0.0142	1.2000e-004	3.0400e-003	2.4000e-004	3.2800e-003	8.8000e-004	2.3000e-004	1.1100e-003	0.0000	11.9866	11.9866	7.6000e-004	0.0000	12.0056
Worker	0.0152	0.0122	0.1351	3.7000e-004	0.0360	3.1000e-004	0.0363	9.5500e-003	2.8000e-004	9.8300e-003	0.0000	33.5105	33.5105	1.0600e-003	0.0000	33.5369
Total	**0.0169**	**0.0645**	**0.1492**	**4.9000e-004**	**0.0390**	**5.5000e-004**	**0.0395**	**0.0104**	**5.1000e-004**	**0.0109**	**0.0000**	**45.4971**	**45.4971**	**1.8200e-003**	**0.0000**	**45.5425**

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	0.1637	1.0434	1.1221	1.7200e-003		0.0610	0.0610		0.0596	0.0596	0.0000	139.1108	139.1108	0.0209	0.0000	139.6321
Total	**0.1637**	**1.0434**	**1.1221**	**1.7200e-003**		**0.0610**	**0.0610**		**0.0596**	**0.0596**	**0.0000**	**139.1108**	**139.1108**	**0.0209**	**0.0000**	**139.6321**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7500e-003	0.0523	0.0142	1.2000e-004	3.0400e-003	2.4000e-004	3.2800e-003	8.8000e-004	2.3000e-004	1.1100e-003	0.0000	11.9866	11.9866	7.6000e-004	0.0000	12.0056
Worker	0.0152	0.0122	0.1351	3.7000e-004	0.0360	3.1000e-004	0.0363	9.5500e-003	2.8000e-004	9.8300e-003	0.0000	33.5105	33.5105	1.0600e-003	0.0000	33.5369
Total	**0.0169**	**0.0645**	**0.1492**	**4.9000e-004**	**0.0390**	**5.5000e-004**	**0.0395**	**0.0104**	**5.1000e-004**	**0.0109**	**0.0000**	**45.4971**	**45.4971**	**1.8200e-003**	**0.0000**	**45.5425**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.2800e-003	0.0352	0.0400	6.0000e-005		1.8900e-003	1.8900e-003		1.8500e-003	1.8500e-003	0.0000	5.0458	5.0458	7.1000e-004	0.0000	5.0636
Total	**5.2800e-003**	**0.0352**	**0.0400**	**6.0000e-005**		**1.8900e-003**	**1.8900e-003**		**1.8500e-003**	**1.8500e-003**	**0.0000**	**5.0458**	**5.0458**	**7.1000e-004**	**0.0000**	**5.0636**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.7300e-003	4.7000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.4314	0.4314	3.0000e-005	0.0000	0.4320
Worker	5.1000e-004	4.0000e-004	4.5000e-003	1.0000e-005	1.3000e-003	1.0000e-005	1.3100e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1768	1.1768	3.0000e-005	0.0000	1.1777
Total	**5.6000e-004**	**2.1300e-003**	**4.9700e-003**	**1.0000e-005**	**1.4100e-003**	**1.0000e-005**	**1.4200e-003**	**3.8000e-004**	**1.0000e-005**	**4.0000e-004**	**0.0000**	**1.6082**	**1.6082**	**6.0000e-005**	**0.0000**	**1.6097**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.2800e-003	0.0352	0.0400	6.0000e-005		1.8900e-003	1.8900e-003		1.8500e-003	1.8500e-003	0.0000	5.0458	5.0458	7.1000e-004	0.0000	5.0636
Total	**5.2800e-003**	**0.0352**	**0.0400**	**6.0000e-005**		**1.8900e-003**	**1.8900e-003**		**1.8500e-003**	**1.8500e-003**	**0.0000**	**5.0458**	**5.0458**	**7.1000e-004**	**0.0000**	**5.0636**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.7300e-003	4.7000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.4314	0.4314	3.0000e-005	0.0000	0.4320
Worker	5.1000e-004	4.0000e-004	4.5000e-003	1.0000e-005	1.3000e-003	1.0000e-005	1.3100e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.1768	1.1768	3.0000e-005	0.0000	1.1777
Total	**5.6000e-004**	**2.1300e-003**	**4.9700e-003**	**1.0000e-005**	**1.4100e-003**	**1.0000e-005**	**1.4200e-003**	**3.8000e-004**	**1.0000e-005**	**4.0000e-004**	**0.0000**	**1.6082**	**1.6082**	**6.0000e-005**	**0.0000**	**1.6097**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.8700e-003	0.0387	0.0443	7.0000e-005		2.0800e-003	2.0800e-003		1.9100e-003	1.9100e-003	0.0000	5.8825	5.8825	1.8600e-003	0.0000	5.9291
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.8700e-003**	**0.0387**	**0.0443**	**7.0000e-005**		**2.0800e-003**	**2.0800e-003**		**1.9100e-003**	**1.9100e-003**	**0.0000**	**5.8825**	**5.8825**	**1.8600e-003**	**0.0000**	**5.9291**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.2000e-004	2.4600e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.2000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6428	0.6428	2.0000e-005	0.0000	0.6433
Total	**2.8000e-004**	**2.2000e-004**	**2.4600e-003**	**1.0000e-005**	**7.1000e-004**	**1.0000e-005**	**7.2000e-004**	**1.9000e-004**	**1.0000e-005**	**1.9000e-004**	**0.0000**	**0.6428**	**0.6428**	**2.0000e-005**	**0.0000**	**0.6433**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.8700e-003	0.0387	0.0443	7.0000e-005		2.0800e-003	2.0800e-003		1.9100e-003	1.9100e-003	0.0000	5.8825	5.8825	1.8600e-003	0.0000	5.9291
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.8700e-003**	**0.0387**	**0.0443**	**7.0000e-005**		**2.0800e-003**	**2.0800e-003**		**1.9100e-003**	**1.9100e-003**	**0.0000**	**5.8825**	**5.8825**	**1.8600e-003**	**0.0000**	**5.9291**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.2000e-004	2.4600e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.2000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6428	0.6428	2.0000e-005	0.0000	0.6433
Total	**2.8000e-004**	**2.2000e-004**	**2.4600e-003**	**1.0000e-005**	**7.1000e-004**	**1.0000e-005**	**7.2000e-004**	**1.9000e-004**	**1.0000e-005**	**1.9000e-004**	**0.0000**	**0.6428**	**0.6428**	**2.0000e-005**	**0.0000**	**0.6433**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1471					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0900e-003	7.6300e-003	9.0900e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.2766	1.2766	9.0000e-005	0.0000	1.2788
Total	**0.1481**	**7.6300e-003**	**9.0900e-003**	**1.0000e-005**		**4.7000e-004**	**4.7000e-004**		**4.7000e-004**	**4.7000e-004**	**0.0000**	**1.2766**	**1.2766**	**9.0000e-005**	**0.0000**	**1.2788**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.2000e-004	1.3200e-003	0.0000	3.8000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3461	0.3461	1.0000e-005	0.0000	0.3464
Total	**1.5000e-004**	**1.2000e-004**	**1.3200e-003**	**0.0000**	**3.8000e-004**	**0.0000**	**3.9000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3461**	**0.3461**	**1.0000e-005**	**0.0000**	**0.3464**

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	0.1471					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0900e-003	7.6300e-003	9.0900e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.2766	1.2766	9.0000e-005	0.0000	1.2788
Total	**0.1481**	**7.6300e-003**	**9.0900e-003**	**1.0000e-005**		**4.7000e-004**	**4.7000e-004**		**4.7000e-004**	**4.7000e-004**	**0.0000**	**1.2766**	**1.2766**	**9.0000e-005**	**0.0000**	**1.2788**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.2000e-004	1.3200e-003	0.0000	3.8000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3461	0.3461	1.0000e-005	0.0000	0.3464
Total	**1.5000e-004**	**1.2000e-004**	**1.3200e-003**	**0.0000**	**3.8000e-004**	**0.0000**	**3.9000e-004**	**1.0000e-004**	**0.0000**	**1.0000e-004**	**0.0000**	**0.3461**	**0.3461**	**1.0000e-005**	**0.0000**	**0.3464**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0925	0.4627	1.1809	3.9600e-003	0.3145	3.4100e-003	0.3179	0.0843	3.1900e-003	0.0875	0.0000	365.6736	365.6736	0.0200	0.0000	366.1742
Unmitigated	0.1025	0.5311	1.4255	4.9300e-003	0.3962	4.2100e-003	0.4004	0.1062	3.9300e-003	0.1101	0.0000	454.5677	454.5677	0.0243	0.0000	455.1744

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	312.55	300.33	275.42	1,043,940	828,559
Total	312.55	300.33	275.42	1,043,940	828,559

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	60.5894	60.5894	2.5000e-003	5.2000e-004	60.8062
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	60.6222	60.6222	2.5000e-003	5.2000e-004	60.8391
NaturalGas Mitigated	3.4000e-003	0.0290	0.0124	1.9000e-004		2.3500e-003	2.3500e-003		2.3500e-003	2.3500e-003	0.0000	33.5989	33.5989	6.4000e-004	6.2000e-004	33.7986
NaturalGas Unmitigated	3.4000e-003	0.0290	0.0124	1.9000e-004		2.3500e-003	2.3500e-003		2.3500e-003	2.3500e-003	0.0000	33.5989	33.5989	6.4000e-004	6.2000e-004	33.7986

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	629620	3.4000e-003	0.0290	0.0124	1.9000e-004		2.3500e-003	2.3500e-003		2.3500e-003	2.3500e-003	0.0000	33.5989	33.5989	6.4000e-004	6.2000e-004	33.7986
Total		**3.4000e-003**	**0.0290**	**0.0124**	**1.9000e-004**		**2.3500e-003**	**2.3500e-003**		**2.3500e-003**	**2.3500e-003**	**0.0000**	**33.5989**	**33.5989**	**6.4000e-004**	**6.2000e-004**	**33.7986**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	629620	3.4000e-003	0.0290	0.0124	1.9000e-004		2.3500e-003	2.3500e-003		2.3500e-003	2.3500e-003	0.0000	33.5989	33.5989	6.4000e-004	6.2000e-004	33.7986
Total		**3.4000e-003**	**0.0290**	**0.0124**	**1.9000e-004**		**2.3500e-003**	**2.3500e-003**		**2.3500e-003**	**2.3500e-003**	**0.0000**	**33.5989**	**33.5989**	**6.4000e-004**	**6.2000e-004**	**33.7986**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	190264	60.6222	2.5000e-003	5.2000e-004	60.8391
Total		**60.6222**	**2.5000e-003**	**5.2000e-004**	**60.8391**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	190161	60.5894	2.5000e-003	5.2000e-004	60.8062
Total		**60.5894**	**2.5000e-003**	**5.2000e-004**	**60.8062**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1860	5.6100e-003	0.4858	3.0000e-005		2.6800e-003	2.6800e-003		2.6800e-003	2.6800e-003	0.0000	0.7917	0.7917	7.7000e-004	0.0000	0.8109
Unmitigated	0.1993	5.6100e-003	0.4858	3.0000e-005		2.6800e-003	2.6800e-003		2.6800e-003	2.6800e-003	0.0000	0.7917	0.7917	7.7000e-004	0.0000	0.8109

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	0.0147					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1698					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0147	5.6100e-003	0.4858	3.0000e-005		2.6800e-003	2.6800e-003		2.6800e-003	2.6800e-003	0.0000	0.7917	0.7917	7.7000e-004	0.0000	0.8109
Total	**0.1993**	**5.6100e-003**	**0.4858**	**3.0000e-005**		**2.6800e-003**	**2.6800e-003**		**2.6800e-003**	**2.6800e-003**	**0.0000**	**0.7917**	**0.7917**	**7.7000e-004**	**0.0000**	**0.8109**

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	1.4700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1698					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0147	5.6100e-003	0.4858	3.0000e-005		2.6800e-003	2.6800e-003		2.6800e-003	2.6800e-003	0.0000	0.7917	0.7917	7.7000e-004	0.0000	0.8109
Total	**0.1860**	**5.6100e-003**	**0.4858**	**3.0000e-005**		**2.6800e-003**	**2.6800e-003**		**2.6800e-003**	**2.6800e-003**	**0.0000**	**0.7917**	**0.7917**	**7.7000e-004**	**0.0000**	**0.8109**

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	17.3579	0.0805	2.0300e-003	19.9745
Unmitigated	20.5099	0.1006	2.5200e-003	23.7765

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	3.06224 / 1.93054	20.5099	0.1006	2.5200e-003	23.7765
Total		**20.5099**	**0.1006**	**2.5200e-003**	**23.7765**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	2.44979 / 1.81278	17.3579	0.0805	2.0300e-003	19.9745
Total		**17.3579**	**0.0805**	**2.0300e-003**	**19.9745**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.3887	0.2594	0.0000	10.8727
Unmitigated	4.3887	0.2594	0.0000	10.8727

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	21.62	4.3887	0.2594	0.0000	10.8727
Total		**4.3887**	**0.2594**	**0.0000**	**10.8727**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	21.62	4.3887	0.2594	0.0000	10.8727
Total		**4.3887**	**0.2594**	**0.0000**	**10.8727**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	8.4960	0.0000	0.0000	8.4960

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	12	8.4960	0.0000	0.0000	8.4960
Total		**8.4960**	**0.0000**	**0.0000**	**8.4960**

Artesia HO-O Zone Implementation - Area D

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	47.00	Dwelling Unit	1.58	47,000.00	134

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction hypothesized to start in March 2020 for model purposes.
Project modeled to be operational in 2021.

Land Use - Combined Group D lot area.
Dimensions - L.A. Co. Assessor.

Construction Phase - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment -

Off-road Equipment - Cranes anticipated to be used approx 14 days over 200-day consruction period.
14 days/200 days = 0.1 = fractional crane use over whole period.

Off-road Equipment - Assumes no cut/fill. Terrain is flat.

Off-road Equipment - Defaults used.

Off-road Equipment - Defaults used.
Grading - Defaults used. No cut/fill.

Demolition - Extg bldg square footage obtained from L.A. Co. Assessor.

Trips and VMT - Defaults used.

On-road Fugitive Dust - Defaults used.

Architectural Coating - Defaults used.

Woodstoves - No fireplaces/wood stoves.

Area Coating -

Energy Use - Defaults used.

Water And Wastewater - Defaults used.

Solid Waste - Defaults used.

Land Use Change - No natural vegetation changes - area previously developed, urban.

Sequestration - Assumes 1/4 tree/unit.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Increased average density from 15 du/acre to 30 du/acre.

Area Mitigation - Zero VOC coatings indicated to be 5 g/l or less - used Dunn-Edwards "Everest" zero-VOC paint as example.

Energy Mitigation - Required PV installation per 2018 Title 24 Multifamily Residential on-site solar provision.
See Cal. Energy Comm, Residential Compliance Manual, December 2018, p. 7-1 for calculating PV system size.

Water Mitigation - Defaults used; assume Ti. 24 compliance for low-flow fixtures.

Artesia HO-O Zone Implementation - Area D - Los Angeles-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	5
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	5
tblFireplaces	NumberGas	39.95	0.00
tblFireplaces	NumberNoFireplace	4.70	47.00
tblFireplaces	NumberWood	2.35	0.00
tblLandUse	LotAcreage	1.24	1.58
tblOffRoadEquipment	UsageHours	6.00	0.10
tblSequestration	NumberOfNewTrees	0.00	12.00
tblWoodstoves	NumberCatalytic	2.35	0.00
tblWoodstoves	NumberNoncatalytic	2.35	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.2162	21.9809	15.4463	0.0284	5.8890	1.1569	6.7107	2.9774	1.0803	3.7334	0.0000	2,770.4693	2,770.4693	0.6219	0.0000	2,786.0159
2021	29.6580	10.6453	12.9334	0.0230	0.4121	0.5432	0.9553	0.1100	0.5310	0.6410	0.0000	2,113.7722	2,113.7722	0.4155	0.0000	2,119.8598
Maximum	**29.6580**	**21.9809**	**15.4463**	**0.0284**	**5.8890**	**1.1569**	**6.7107**	**2.9774**	**1.0803**	**3.7334**	**0.0000**	**2,770.4693**	**2,770.4693**	**0.6219**	**0.0000**	**2,786.0159**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.2162	21.9809	15.4463	0.0284	2.6992	1.1569	3.5209	1.3529	1.0803	2.1088	0.0000	2,770.4693	2,770.4693	0.6219	0.0000	2,786.0159
2021	29.6580	10.6453	12.9334	0.0230	0.4121	0.5432	0.9553	0.1100	0.5310	0.6410	0.0000	2,113.7722	2,113.7722	0.4155	0.0000	2,119.8598
Maximum	**29.6580**	**21.9809**	**15.4463**	**0.0284**	**2.6992**	**1.1569**	**3.5209**	**1.3529**	**1.0803**	**2.1088**	**0.0000**	**2,770.4693**	**2,770.4693**	**0.6219**	**0.0000**	**2,786.0159**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**50.62**	**0.00**	**41.61**	**52.62**	**0.00**	**37.14**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.1289	0.0449	3.8860	2.0000e-004		0.0214	0.0214		0.0214	0.0214	0.0000	6.9820	6.9820	6.7700e-003	0.0000	7.1511
Energy	0.0186	0.1590	0.0677	1.0100e-003		0.0129	0.0129		0.0129	0.0129		202.9396	202.9396	3.8900e-003	3.7200e-003	204.1455
Mobile	0.6063	2.8550	8.3236	0.0287	2.2711	0.0237	2.2947	0.6078	0.0221	0.6299		2,919.0431	2,919.0431	0.1516		2,922.8323
Total	**1.7538**	**3.0588**	**12.2772**	**0.0299**	**2.2711**	**0.0579**	**2.3290**	**0.6078**	**0.0564**	**0.6642**	**0.0000**	**3,128.9646**	**3,128.9646**	**0.1622**	**3.7200e-003**	**3,134.1290**

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	1.0564	0.0449	3.8860	2.0000e-004		0.0214	0.0214		0.0214	0.0214	0.0000	6.9820	6.9820	6.7700e-003	0.0000	7.1511
Energy	0.0186	0.1590	0.0677	1.0100e-003		0.0129	0.0129		0.0129	0.0129		202.9396	202.9396	3.8900e-003	3.7200e-003	204.1455
Mobile	0.5493	2.4990	6.8475	0.0231	1.8025	0.0192	1.8217	0.4824	0.0179	0.5003		2,348.3556	2,348.3556	0.1247		2,351.4730
Total	**1.6243**	**2.7029**	**10.8012**	**0.0243**	**1.8025**	**0.0534**	**1.8560**	**0.4824**	**0.0522**	**0.5346**	**0.0000**	**2,558.2771**	**2,558.2771**	**0.1354**	**3.7200e-003**	**2,562.7696**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**7.39**	**11.64**	**12.02**	**18.78**	**20.63**	**7.75**	**20.31**	**20.63**	**7.45**	**19.51**	**0.00**	**18.24**	**18.24**	**16.56**	**0.00**	**18.23**

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	3/2/2020	3/27/2020	5	20	
2	Site Preparation	Site Preparation	3/28/2020	3/31/2020	5	2	
3	Grading	Grading	4/1/2020	4/6/2020	5	4	
4	Building Construction	Building Construction	4/7/2020	1/11/2021	5	200	
5	Paving	Paving	1/12/2021	1/25/2021	5	10	
6	Architectural Coating	Architectural Coating	1/26/2021	2/8/2021	5	10	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 95,175; Residential Outdoor: 31,725; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Artesia HO-O Zone Implementation - Area D - Los Angeles-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	0.10	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Building Construction	Welders	3	8.00	46	0.45

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
Architectural Coating	1	7.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	34.00	5.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	69.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	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
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7503	0.0000	0.7503	0.1136	0.0000	0.1136			0.0000			0.0000
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761		2,322.3127	2,322.3127	0.5970		2,337.2363
Total	**2.1262**	**20.9463**	**14.6573**	**0.0241**	**0.7503**	**1.1525**	**1.9028**	**0.1136**	**1.0761**	**1.1898**		**2,322.3127**	**2,322.3127**	**0.5970**		**2,337.2363**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0301	0.9920	0.2198	2.7200e-003	0.0603	3.1700e-003	0.0635	0.0165	3.0300e-003	0.0196		295.2620	295.2620	0.0201		295.7644
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	0.0598	0.0426	0.5692	1.5400e-003	0.1453	1.2100e-003	0.1465	0.0385	1.1200e-003	0.0397		152.8947	152.8947	4.8200e-003		153.0152
Total	**0.0900**	**1.0346**	**0.7890**	**4.2600e-003**	**0.2056**	**4.3800e-003**	**0.2100**	**0.0551**	**4.1500e-003**	**0.0592**		**448.1567**	**448.1567**	**0.0249**		**448.7796**

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					0.3377	0.0000	0.3377	0.0511	0.0000	0.0511			0.0000			0.0000
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761	0.0000	2,322.3127	2,322.3127	0.5970		2,337.2363
Total	**2.1262**	**20.9463**	**14.6573**	**0.0241**	**0.3377**	**1.1525**	**1.4901**	**0.0511**	**1.0761**	**1.1273**	**0.0000**	**2,322.3127**	**2,322.3127**	**0.5970**		**2,337.2363**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0301	0.9920	0.2198	2.7200e-003	0.0603	3.1700e-003	0.0635	0.0165	3.0300e-003	0.0196		295.2620	295.2620	0.0201		295.7644
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	0.0598	0.0426	0.5692	1.5400e-003	0.1453	1.2100e-003	0.1465	0.0385	1.1200e-003	0.0397		152.8947	152.8947	4.8200e-003		153.0152
Total	**0.0900**	**1.0346**	**0.7890**	**4.2600e-003**	**0.2056**	**4.3800e-003**	**0.2100**	**0.0551**	**4.1500e-003**	**0.0592**		**448.1567**	**448.1567**	**0.0249**		**448.7796**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	1.6299	18.3464	7.7093	0.0172		0.8210	0.8210		0.7553	0.7553		1,667.4119	1,667.4119	0.5393		1,680.8937
Total	**1.6299**	**18.3464**	**7.7093**	**0.0172**	**5.7996**	**0.8210**	**6.6205**	**2.9537**	**0.7553**	**3.7090**		**1,667.4119**	**1,667.4119**	**0.5393**		**1,680.8937**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		94.0890	94.0890	2.9700e-003		94.1632
Total	**0.0368**	**0.0262**	**0.3503**	**9.4000e-004**	**0.0894**	**7.5000e-004**	**0.0902**	**0.0237**	**6.9000e-004**	**0.0244**		**94.0890**	**94.0890**	**2.9700e-003**		**94.1632**

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					2.6098	0.0000	2.6098	1.3292	0.0000	1.3292			0.0000			0.0000
Off-Road	1.6299	18.3464	7.7093	0.0172		0.8210	0.8210		0.7553	0.7553	0.0000	1,667.4119	1,667.4119	0.5393		1,680.8937
Total	**1.6299**	**18.3464**	**7.7093**	**0.0172**	**2.6098**	**0.8210**	**3.4308**	**1.3292**	**0.7553**	**2.0844**	**0.0000**	**1,667.4119**	**1,667.4119**	**0.5393**		**1,680.8937**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		94.0890	94.0890	2.9700e-003		94.1632
Total	**0.0368**	**0.0262**	**0.3503**	**9.4000e-004**	**0.0894**	**7.5000e-004**	**0.0902**	**0.0237**	**6.9000e-004**	**0.0244**		**94.0890**	**94.0890**	**2.9700e-003**		**94.1632**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	1.3498	15.0854	6.4543	0.0141		0.6844	0.6844		0.6296	0.6296		1,365.7183	1,365.7183	0.4417		1,376.7609
Total	**1.3498**	**15.0854**	**6.4543**	**0.0141**	**4.9143**	**0.6844**	**5.5986**	**2.5256**	**0.6296**	**3.1552**		**1,365.7183**	**1,365.7183**	**0.4417**		**1,376.7609**

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		94.0890	94.0890	2.9700e-003		94.1632
Total	**0.0368**	**0.0262**	**0.3503**	**9.4000e-004**	**0.0894**	**7.5000e-004**	**0.0902**	**0.0237**	**6.9000e-004**	**0.0244**		**94.0890**	**94.0890**	**2.9700e-003**		**94.1632**

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					2.2114	0.0000	2.2114	1.1365	0.0000	1.1365			0.0000			0.0000
Off-Road	1.3498	15.0854	6.4543	0.0141		0.6844	0.6844		0.6296	0.6296	0.0000	1,365.7183	1,365.7183	0.4417		1,376.7609
Total	**1.3498**	**15.0854**	**6.4543**	**0.0141**	**2.2114**	**0.6844**	**2.8958**	**1.1365**	**0.6296**	**1.7662**	**0.0000**	**1,365.7183**	**1,365.7183**	**0.4417**		**1,376.7609**

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		94.0890	94.0890	2.9700e-003		94.1632
Total	**0.0368**	**0.0262**	**0.3503**	**9.4000e-004**	**0.0894**	**7.5000e-004**	**0.0902**	**0.0237**	**6.9000e-004**	**0.0244**		**94.0890**	**94.0890**	**2.9700e-003**		**94.1632**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6961	10.8120	11.6280	0.0178		0.6320	0.6320		0.6180	0.6180		1,589.0521	1,589.0521	0.2382		1,595.0073
Total	**1.6961**	**10.8120**	**11.6280**	**0.0178**		**0.6320**	**0.6320**		**0.6180**	**0.6180**		**1,589.0521**	**1,589.0521**	**0.2382**		**1,595.0073**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0178	0.5319	0.1394	1.3000e-003	0.0320	2.5000e-003	0.0345	9.2200e-003	2.3900e-003	0.0116		138.5124	138.5124	8.4500e-003		138.7237
Worker	0.1565	0.1113	1.4887	4.0200e-003	0.3800	3.1800e-003	0.3832	0.1008	2.9300e-003	0.1037		399.8784	399.8784	0.0126		400.1936
Total	**0.1743**	**0.6432**	**1.6280**	**5.3200e-003**	**0.4121**	**5.6800e-003**	**0.4177**	**0.1100**	**5.3200e-003**	**0.1153**		**538.3907**	**538.3907**	**0.0211**		**538.9172**

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	1.6961	10.8120	11.6280	0.0178		0.6320	0.6320		0.6180	0.6180	0.0000	1,589.0521	1,589.0521	0.2382		1,595.0073
Total	**1.6961**	**10.8120**	**11.6280**	**0.0178**		**0.6320**	**0.6320**		**0.6180**	**0.6180**	**0.0000**	**1,589.0521**	**1,589.0521**	**0.2382**		**1,595.0073**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0178	0.5319	0.1394	1.3000e-003	0.0320	2.5000e-003	0.0345	9.2200e-003	2.3900e-003	0.0116		138.5124	138.5124	8.4500e-003		138.7237
Worker	0.1565	0.1113	1.4887	4.0200e-003	0.3800	3.1800e-003	0.3832	0.1008	2.9300e-003	0.1037		399.8784	399.8784	0.0126		400.1936
Total	**0.1743**	**0.6432**	**1.6280**	**5.3200e-003**	**0.4121**	**5.6800e-003**	**0.4177**	**0.1100**	**5.3200e-003**	**0.1153**		**538.3907**	**538.3907**	**0.0211**		**538.9172**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5080	10.0597	11.4370	0.0178		0.5391	0.5391		0.5272	0.5272		1,589.1502	1,589.1502	0.2240		1,594.7501
Total	**1.5080**	**10.0597**	**11.4370**	**0.0178**		**0.5391**	**0.5391**		**0.5272**	**0.5272**		**1,589.1502**	**1,589.1502**	**0.2240**		**1,594.7501**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0152	0.4855	0.1269	1.2900e-003	0.0320	9.9000e-004	0.0330	9.2200e-003	9.5000e-004	0.0102		137.4403	137.4403	8.1000e-003		137.6427
Worker	0.1457	0.1002	1.3694	3.8900e-003	0.3800	3.0700e-003	0.3831	0.1008	2.8300e-003	0.1036		387.1818	387.1818	0.0114		387.4670
Total	**0.1609**	**0.5856**	**1.4963**	**5.1800e-003**	**0.4121**	**4.0600e-003**	**0.4161**	**0.1100**	**3.7800e-003**	**0.1138**		**524.6221**	**524.6221**	**0.0195**		**525.1097**

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	1.5080	10.0597	11.4370	0.0178		0.5391	0.5391		0.5272	0.5272	0.0000	1,589.1502	1,589.1502	0.2240		1,594.7501
Total	**1.5080**	**10.0597**	**11.4370**	**0.0178**		**0.5391**	**0.5391**		**0.5272**	**0.5272**	**0.0000**	**1,589.1502**	**1,589.1502**	**0.2240**		**1,594.7501**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0152	0.4855	0.1269	1.2900e-003	0.0320	9.9000e-004	0.0330	9.2200e-003	9.5000e-004	0.0102		137.4403	137.4403	8.1000e-003		137.6427
Worker	0.1457	0.1002	1.3694	3.8900e-003	0.3800	3.0700e-003	0.3831	0.1008	2.8300e-003	0.1036		387.1818	387.1818	0.0114		387.4670
Total	**0.1609**	**0.5856**	**1.4963**	**5.1800e-003**	**0.4121**	**4.0600e-003**	**0.4161**	**0.1100**	**3.7800e-003**	**0.1138**		**524.6221**	**524.6221**	**0.0195**		**525.1097**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830		1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.7739**	**7.7422**	**8.8569**	**0.0135**		**0.4153**	**0.4153**		**0.3830**	**0.3830**		**1,296.8664**	**1,296.8664**	**0.4111**		**1,307.1442**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0557	0.0383	0.5236	1.4900e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		148.0401	148.0401	4.3600e-003		148.1491
Total	**0.0557**	**0.0383**	**0.5236**	**1.4900e-003**	**0.1453**	**1.1700e-003**	**0.1465**	**0.0385**	**1.0800e-003**	**0.0396**		**148.0401**	**148.0401**	**4.3600e-003**		**148.1491**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830	0.0000	1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.7739**	**7.7422**	**8.8569**	**0.0135**		**0.4153**	**0.4153**		**0.3830**	**0.3830**	**0.0000**	**1,296.8664**	**1,296.8664**	**0.4111**		**1,307.1442**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0557	0.0383	0.5236	1.4900e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		148.0401	148.0401	4.3600e-003		148.1491
Total	**0.0557**	**0.0383**	**0.5236**	**1.4900e-003**	**0.1453**	**1.1700e-003**	**0.1465**	**0.0385**	**1.0800e-003**	**0.0396**		**148.0401**	**148.0401**	**4.3600e-003**		**148.1491**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	29.4091					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**29.6280**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0300	0.0206	0.2819	8.0000e-004	0.0782	6.3000e-004	0.0789	0.0208	5.8000e-004	0.0213		79.7139	79.7139	2.3500e-003		79.7726
Total	**0.0300**	**0.0206**	**0.2819**	**8.0000e-004**	**0.0782**	**6.3000e-004**	**0.0789**	**0.0208**	**5.8000e-004**	**0.0213**		**79.7139**	**79.7139**	**2.3500e-003**		**79.7726**

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	29.4091					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**29.6280**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0300	0.0206	0.2819	8.0000e-004	0.0782	6.3000e-004	0.0789	0.0208	5.8000e-004	0.0213		79.7139	79.7139	2.3500e-003		79.7726
Total	**0.0300**	**0.0206**	**0.2819**	**8.0000e-004**	**0.0782**	**6.3000e-004**	**0.0789**	**0.0208**	**5.8000e-004**	**0.0213**		**79.7139**	**79.7139**	**2.3500e-003**		**79.7726**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.5493	2.4990	6.8475	0.0231	1.8025	0.0192	1.8217	0.4824	0.0179	0.5003		2,348.3556	2,348.3556	0.1247		2,351.4730
Unmitigated	0.6063	2.8550	8.3236	0.0287	2.2711	0.0237	2.2947	0.6078	0.0221	0.6299		2,919.0431	2,919.0431	0.1516		2,922.8323

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	312.55	300.33	275.42	1,043,940	828,559
Total	312.55	300.33	275.42	1,043,940	828,559

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0186	0.1590	0.0677	1.0100e-003		0.0129	0.0129		0.0129	0.0129		202.9396	202.9396	3.8900e-003	3.7200e-003	204.1455
NaturalGas Unmitigated	0.0186	0.1590	0.0677	1.0100e-003		0.0129	0.0129		0.0129	0.0129		202.9396	202.9396	3.8900e-003	3.7200e-003	204.1455

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	1724.99	0.0186	0.1590	0.0677	1.0100e-003		0.0129	0.0129		0.0129	0.0129		202.9396	202.9396	3.8900e-003	3.7200e-003	204.1455
Total		**0.0186**	**0.1590**	**0.0677**	**1.0100e-003**		**0.0129**	**0.0129**		**0.0129**	**0.0129**		**202.9396**	**202.9396**	**3.8900e-003**	**3.7200e-003**	**204.1455**

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 Mid Rise	1.72499	0.0186	0.1590	0.0677	1.0100e-003		0.0129	0.0129		0.0129	0.0129		202.9396	202.9396	3.8900e-003	3.7200e-003	204.1455
Total		**0.0186**	**0.1590**	**0.0677**	**1.0100e-003**		**0.0129**	**0.0129**		**0.0129**	**0.0129**		**202.9396**	**202.9396**	**3.8900e-003**	**3.7200e-003**	**204.1455**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0564	0.0449	3.8860	2.0000e-004		0.0214	0.0214		0.0214	0.0214	0.0000	6.9820	6.9820	6.7700e-003	0.0000	7.1511
Unmitigated	1.1289	0.0449	3.8860	2.0000e-004		0.0214	0.0214		0.0214	0.0214	0.0000	6.9820	6.9820	6.7700e-003	0.0000	7.1511

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	0.0806					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9306					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1177	0.0449	3.8860	2.0000e-004		0.0214	0.0214		0.0214	0.0214		6.9820	6.9820	6.7700e-003		7.1511
Total	**1.1289**	**0.0449**	**3.8860**	**2.0000e-004**		**0.0214**	**0.0214**		**0.0214**	**0.0214**	**0.0000**	**6.9820**	**6.9820**	**6.7700e-003**	**0.0000**	**7.1511**

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	8.0600e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9306					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1177	0.0449	3.8860	2.0000e-004		0.0214	0.0214		0.0214	0.0214		6.9820	6.9820	6.7700e-003		7.1511
Total	**1.0564**	**0.0449**	**3.8860**	**2.0000e-004**		**0.0214**	**0.0214**		**0.0214**	**0.0214**	**0.0000**	**6.9820**	**6.9820**	**6.7700e-003**	**0.0000**	**7.1511**

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

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Artesia HO-O Zone Implementation - Area D

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	47.00	Dwelling Unit	1.58	47,000.00	134

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction hypothesized to start in March 2020 for model purposes.
Project modeled to be operational in 2021.

Land Use - Combined Group D lot area.
Dimensions - L.A. Co. Assessor.

Construction Phase - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment -

Off-road Equipment - Cranes anticipated to be used approx 14 days over 200-day consruction period.
14 days/200 days = 0.1 = fractional crane use over whole period.

Off-road Equipment - Assumes no cut/fill. Terrain is flat.

Off-road Equipment - Defaults used.

Off-road Equipment - Defaults used.
Grading - Defaults used. No cut/fill.

Demolition - Extg bldg square footage obtained from L.A. Co. Assessor.

Trips and VMT - Defaults used.

On-road Fugitive Dust - Defaults used.

Architectural Coating - Defaults used.

Woodstoves - No fireplaces/wood stoves.

Area Coating -

Energy Use - Defaults used.

Water And Wastewater - Defaults used.

Solid Waste - Defaults used.

Land Use Change - No natural vegetation changes - area previously developed, urban.

Sequestration - Assumes 1/4 tree/unit.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Increased average density from 15 du/acre to 30 du/acre.

Area Mitigation - Zero VOC coatings indicated to be 5 g/l or less - used Dunn-Edwards "Everest" zero-VOC paint as example.

Energy Mitigation - Required PV installation per 2018 Title 24 Multifamily Residential on-site solar provision.
See Cal. Energy Comm, Residential Compliance Manual, December 2018, p. 7-1 for calculating PV system size.

Water Mitigation - Defaults used; assume Ti. 24 compliance for low-flow fixtures.

Artesia HO-O Zone Implementation - Area D - Los Angeles-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	5
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	5
tblFireplaces	NumberGas	39.95	0.00
tblFireplaces	NumberNoFireplace	4.70	47.00
tblFireplaces	NumberWood	2.35	0.00
tblLandUse	LotAcreage	1.24	1.58
tblOffRoadEquipment	UsageHours	6.00	0.10
tblSequestration	NumberOfNewTrees	0.00	12.00
tblWoodstoves	NumberCatalytic	2.35	0.00
tblWoodstoves	NumberNoncatalytic	2.35	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.2235	21.9983	15.4122	0.0282	5.8890	1.1569	6.7107	2.9774	1.0803	3.7334	0.0000	2,756.4548	2,756.4548	0.6223	0.0000	2,772.0126
2021	29.6614	10.6550	12.8295	0.0227	0.4121	0.5432	0.9553	0.1100	0.5310	0.6410	0.0000	2,087.3883	2,087.3883	0.4152	0.0000	2,093.4721
Maximum	**29.6614**	**21.9983**	**15.4122**	**0.0282**	**5.8890**	**1.1569**	**6.7107**	**2.9774**	**1.0803**	**3.7334**	**0.0000**	**2,756.4548**	**2,756.4548**	**0.6223**	**0.0000**	**2,772.0126**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.2235	21.9983	15.4122	0.0282	2.6992	1.1569	3.5209	1.3529	1.0803	2.1088	0.0000	2,756.4548	2,756.4548	0.6223	0.0000	2,772.0126
2021	29.6614	10.6550	12.8295	0.0227	0.4121	0.5432	0.9553	0.1100	0.5310	0.6410	0.0000	2,087.3883	2,087.3883	0.4152	0.0000	2,093.4721
Maximum	**29.6614**	**21.9983**	**15.4122**	**0.0282**	**2.6992**	**1.1569**	**3.5209**	**1.3529**	**1.0803**	**2.1088**	**0.0000**	**2,756.4548**	**2,756.4548**	**0.6223**	**0.0000**	**2,772.0126**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**50.62**	**0.00**	**41.61**	**52.62**	**0.00**	**37.14**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.1289	0.0449	3.8860	2.0000e-004		0.0214	0.0214		0.0214	0.0214	0.0000	6.9820	6.9820	6.7700e-003	0.0000	7.1511
Energy	0.0186	0.1590	0.0677	1.0100e-003		0.0129	0.0129		0.0129	0.0129		202.9396	202.9396	3.8900e-003	3.7200e-003	204.1455
Mobile	0.5892	2.9303	7.8983	0.0273	2.2711	0.0238	2.2949	0.6078	0.0222	0.6300		2,777.7829	2,777.7829	0.1509		2,781.5552
Total	**1.7367**	**3.1342**	**11.8519**	**0.0285**	**2.2711**	**0.0580**	**2.3291**	**0.6078**	**0.0565**	**0.6643**	**0.0000**	**2,987.7044**	**2,987.7044**	**0.1616**	**3.7200e-003**	**2,992.8518**

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	1.0564	0.0449	3.8860	2.0000e-004		0.0214	0.0214		0.0214	0.0214	0.0000	6.9820	6.9820	6.7700e-003	0.0000	7.1511
Energy	0.0186	0.1590	0.0677	1.0100e-003		0.0129	0.0129		0.0129	0.0129		202.9396	202.9396	3.8900e-003	3.7200e-003	204.1455
Mobile	0.5335	2.5534	6.5593	0.0220	1.8025	0.0193	1.8218	0.4824	0.0180	0.5004		2,233.3396	2,233.3396	0.1247		2,236.4580
Total	**1.6085**	**2.7573**	**10.5129**	**0.0232**	**1.8025**	**0.0536**	**1.8561**	**0.4824**	**0.0523**	**0.5347**	**0.0000**	**2,443.2612**	**2,443.2612**	**0.1354**	**3.7200e-003**	**2,447.7546**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**7.38**	**12.03**	**11.30**	**18.79**	**20.63**	**7.74**	**20.31**	**20.63**	**7.42**	**19.51**	**0.00**	**18.22**	**18.22**	**16.19**	**0.00**	**18.21**

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	3/2/2020	3/27/2020	5	20	
2	Site Preparation	Site Preparation	3/28/2020	3/31/2020	5	2	
3	Grading	Grading	4/1/2020	4/6/2020	5	4	
4	Building Construction	Building Construction	4/7/2020	1/11/2021	5	200	
5	Paving	Paving	1/12/2021	1/25/2021	5	10	
6	Architectural Coating	Architectural Coating	1/26/2021	2/8/2021	5	10	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 95,175; Residential Outdoor: 31,725; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Artesia HO-O Zone Implementation - Area D - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	0.10	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	6.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Building Construction	Welders	3	8.00	46	0.45

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
Architectural Coating	1	7.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	34.00	5.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	69.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	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
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7503	0.0000	0.7503	0.1136	0.0000	0.1136			0.0000			0.0000
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761		2,322.3127	2,322.3127	0.5970		2,337.2363
Total	**2.1262**	**20.9463**	**14.6573**	**0.0241**	**0.7503**	**1.1525**	**1.9028**	**0.1136**	**1.0761**	**1.1898**		**2,322.3127**	**2,322.3127**	**0.5970**		**2,337.2363**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0309	1.0049	0.2336	2.6800e-003	0.0603	3.2100e-003	0.0635	0.0165	3.0800e-003	0.0196		290.1775	290.1775	0.0208		290.6982
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	0.0664	0.0471	0.5213	1.4500e-003	0.1453	1.2100e-003	0.1465	0.0385	1.1200e-003	0.0397		143.9647	143.9647	4.5400e-003		144.0781
Total	**0.0973**	**1.0520**	**0.7549**	**4.1300e-003**	**0.2056**	**4.4200e-003**	**0.2101**	**0.0551**	**4.2000e-003**	**0.0593**		**434.1421**	**434.1421**	**0.0254**		**434.7763**

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					0.3377	0.0000	0.3377	0.0511	0.0000	0.0511			0.0000			0.0000
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761	0.0000	2,322.3127	2,322.3127	0.5970		2,337.2363
Total	**2.1262**	**20.9463**	**14.6573**	**0.0241**	**0.3377**	**1.1525**	**1.4901**	**0.0511**	**1.0761**	**1.1273**	**0.0000**	**2,322.3127**	**2,322.3127**	**0.5970**		**2,337.2363**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0309	1.0049	0.2336	2.6800e-003	0.0603	3.2100e-003	0.0635	0.0165	3.0800e-003	0.0196		290.1775	290.1775	0.0208		290.6982
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	0.0664	0.0471	0.5213	1.4500e-003	0.1453	1.2100e-003	0.1465	0.0385	1.1200e-003	0.0397		143.9647	143.9647	4.5400e-003		144.0781
Total	**0.0973**	**1.0520**	**0.7549**	**4.1300e-003**	**0.2056**	**4.4200e-003**	**0.2101**	**0.0551**	**4.2000e-003**	**0.0593**		**434.1421**	**434.1421**	**0.0254**		**434.7763**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.7996	0.0000	5.7996	2.9537	0.0000	2.9537			0.0000			0.0000
Off-Road	1.6299	18.3464	7.7093	0.0172		0.8210	0.8210		0.7553	0.7553		1,667.4119	1,667.4119	0.5393		1,680.8937
Total	**1.6299**	**18.3464**	**7.7093**	**0.0172**	**5.7996**	**0.8210**	**6.6205**	**2.9537**	**0.7553**	**3.7090**		**1,667.4119**	**1,667.4119**	**0.5393**		**1,680.8937**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0409	0.0290	0.3208	8.9000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		88.5936	88.5936	2.7900e-003		88.6634
Total	**0.0409**	**0.0290**	**0.3208**	**8.9000e-004**	**0.0894**	**7.5000e-004**	**0.0902**	**0.0237**	**6.9000e-004**	**0.0244**		**88.5936**	**88.5936**	**2.7900e-003**		**88.6634**

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					2.6098	0.0000	2.6098	1.3292	0.0000	1.3292			0.0000			0.0000
Off-Road	1.6299	18.3464	7.7093	0.0172		0.8210	0.8210		0.7553	0.7553	0.0000	1,667.4119	1,667.4119	0.5393		1,680.8937
Total	**1.6299**	**18.3464**	**7.7093**	**0.0172**	**2.6098**	**0.8210**	**3.4308**	**1.3292**	**0.7553**	**2.0844**	**0.0000**	**1,667.4119**	**1,667.4119**	**0.5393**		**1,680.8937**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0409	0.0290	0.3208	8.9000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		88.5936	88.5936	2.7900e-003		88.6634
Total	**0.0409**	**0.0290**	**0.3208**	**8.9000e-004**	**0.0894**	**7.5000e-004**	**0.0902**	**0.0237**	**6.9000e-004**	**0.0244**		**88.5936**	**88.5936**	**2.7900e-003**		**88.6634**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9143	0.0000	4.9143	2.5256	0.0000	2.5256			0.0000			0.0000
Off-Road	1.3498	15.0854	6.4543	0.0141		0.6844	0.6844		0.6296	0.6296		1,365.7183	1,365.7183	0.4417		1,376.7609
Total	**1.3498**	**15.0854**	**6.4543**	**0.0141**	**4.9143**	**0.6844**	**5.5986**	**2.5256**	**0.6296**	**3.1552**		**1,365.7183**	**1,365.7183**	**0.4417**		**1,376.7609**

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0409	0.0290	0.3208	8.9000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		88.5936	88.5936	2.7900e-003		88.6634
Total	**0.0409**	**0.0290**	**0.3208**	**8.9000e-004**	**0.0894**	**7.5000e-004**	**0.0902**	**0.0237**	**6.9000e-004**	**0.0244**		**88.5936**	**88.5936**	**2.7900e-003**		**88.6634**

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					2.2114	0.0000	2.2114	1.1365	0.0000	1.1365			0.0000			0.0000
Off-Road	1.3498	15.0854	6.4543	0.0141		0.6844	0.6844		0.6296	0.6296	0.0000	1,365.7183	1,365.7183	0.4417		1,376.7609
Total	**1.3498**	**15.0854**	**6.4543**	**0.0141**	**2.2114**	**0.6844**	**2.8958**	**1.1365**	**0.6296**	**1.7662**	**0.0000**	**1,365.7183**	**1,365.7183**	**0.4417**		**1,376.7609**

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0409	0.0290	0.3208	8.9000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		88.5936	88.5936	2.7900e-003		88.6634
Total	**0.0409**	**0.0290**	**0.3208**	**8.9000e-004**	**0.0894**	**7.5000e-004**	**0.0902**	**0.0237**	**6.9000e-004**	**0.0244**		**88.5936**	**88.5936**	**2.7900e-003**		**88.6634**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6961	10.8120	11.6280	0.0178		0.6320	0.6320		0.6180	0.6180		1,589.0521	1,589.0521	0.2382		1,595.0073
Total	**1.6961**	**10.8120**	**11.6280**	**0.0178**		**0.6320**	**0.6320**		**0.6180**	**0.6180**		**1,589.0521**	**1,589.0521**	**0.2382**		**1,595.0073**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0186	0.5318	0.1537	1.2600e-003	0.0320	2.5400e-003	0.0346	9.2200e-003	2.4300e-003	0.0117		134.7245	134.7245	9.0100e-003		134.9498
Worker	0.1738	0.1232	1.3634	3.7800e-003	0.3800	3.1800e-003	0.3832	0.1008	2.9300e-003	0.1037		376.5229	376.5229	0.0119		376.8196
Total	**0.1923**	**0.6550**	**1.5171**	**5.0400e-003**	**0.4121**	**5.7200e-003**	**0.4178**	**0.1100**	**5.3600e-003**	**0.1154**		**511.2475**	**511.2475**	**0.0209**		**511.7694**

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	1.6961	10.8120	11.6280	0.0178		0.6320	0.6320		0.6180	0.6180	0.0000	1,589.0521	1,589.0521	0.2382		1,595.0073
Total	**1.6961**	**10.8120**	**11.6280**	**0.0178**		**0.6320**	**0.6320**		**0.6180**	**0.6180**	**0.0000**	**1,589.0521**	**1,589.0521**	**0.2382**		**1,595.0073**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0186	0.5318	0.1537	1.2600e-003	0.0320	2.5400e-003	0.0346	9.2200e-003	2.4300e-003	0.0117		134.7245	134.7245	9.0100e-003		134.9498
Worker	0.1738	0.1232	1.3634	3.7800e-003	0.3800	3.1800e-003	0.3832	0.1008	2.9300e-003	0.1037		376.5229	376.5229	0.0119		376.8196
Total	**0.1923**	**0.6550**	**1.5171**	**5.0400e-003**	**0.4121**	**5.7200e-003**	**0.4178**	**0.1100**	**5.3600e-003**	**0.1154**		**511.2475**	**511.2475**	**0.0209**		**511.7694**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5080	10.0597	11.4370	0.0178		0.5391	0.5391		0.5272	0.5272		1,589.1502	1,589.1502	0.2240		1,594.7501
Total	**1.5080**	**10.0597**	**11.4370**	**0.0178**		**0.5391**	**0.5391**		**0.5272**	**0.5272**		**1,589.1502**	**1,589.1502**	**0.2240**		**1,594.7501**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0160	0.4844	0.1404	1.2500e-003	0.0320	1.0200e-003	0.0330	9.2200e-003	9.8000e-004	0.0102		133.6728	133.6728	8.6300e-003		133.8885
Worker	0.1621	0.1109	1.2521	3.6600e-003	0.3800	3.0700e-003	0.3831	0.1008	2.8300e-003	0.1036		364.5654	364.5654	0.0107		364.8336
Total	**0.1781**	**0.5953**	**1.3925**	**4.9100e-003**	**0.4121**	**4.0900e-003**	**0.4162**	**0.1100**	**3.8100e-003**	**0.1138**		**498.2381**	**498.2381**	**0.0194**		**498.7221**

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	1.5080	10.0597	11.4370	0.0178		0.5391	0.5391		0.5272	0.5272	0.0000	1,589.1502	1,589.1502	0.2240		1,594.7501
Total	**1.5080**	**10.0597**	**11.4370**	**0.0178**		**0.5391**	**0.5391**		**0.5272**	**0.5272**	**0.0000**	**1,589.1502**	**1,589.1502**	**0.2240**		**1,594.7501**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0160	0.4844	0.1404	1.2500e-003	0.0320	1.0200e-003	0.0330	9.2200e-003	9.8000e-004	0.0102		133.6728	133.6728	8.6300e-003		133.8885
Worker	0.1621	0.1109	1.2521	3.6600e-003	0.3800	3.0700e-003	0.3831	0.1008	2.8300e-003	0.1036		364.5654	364.5654	0.0107		364.8336
Total	**0.1781**	**0.5953**	**1.3925**	**4.9100e-003**	**0.4121**	**4.0900e-003**	**0.4162**	**0.1100**	**3.8100e-003**	**0.1138**		**498.2381**	**498.2381**	**0.0194**		**498.7221**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830		1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.7739**	**7.7422**	**8.8569**	**0.0135**		**0.4153**	**0.4153**		**0.3830**	**0.3830**		**1,296.8664**	**1,296.8664**	**0.4111**		**1,307.1442**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0620	0.0424	0.4787	1.4000e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		139.3926	139.3926	4.1000e-003		139.4952
Total	**0.0620**	**0.0424**	**0.4787**	**1.4000e-003**	**0.1453**	**1.1700e-003**	**0.1465**	**0.0385**	**1.0800e-003**	**0.0396**		**139.3926**	**139.3926**	**4.1000e-003**		**139.4952**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7739	7.7422	8.8569	0.0135		0.4153	0.4153		0.3830	0.3830	0.0000	1,296.8664	1,296.8664	0.4111		1,307.1442
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.7739**	**7.7422**	**8.8569**	**0.0135**		**0.4153**	**0.4153**		**0.3830**	**0.3830**	**0.0000**	**1,296.8664**	**1,296.8664**	**0.4111**		**1,307.1442**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0620	0.0424	0.4787	1.4000e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		139.3926	139.3926	4.1000e-003		139.4952
Total	**0.0620**	**0.0424**	**0.4787**	**1.4000e-003**	**0.1453**	**1.1700e-003**	**0.1465**	**0.0385**	**1.0800e-003**	**0.0396**		**139.3926**	**139.3926**	**4.1000e-003**		**139.4952**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	29.4091					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**29.6280**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0334	0.0228	0.2578	7.5000e-004	0.0782	6.3000e-004	0.0789	0.0208	5.8000e-004	0.0213		75.0576	75.0576	2.2100e-003		75.1128
Total	**0.0334**	**0.0228**	**0.2578**	**7.5000e-004**	**0.0782**	**6.3000e-004**	**0.0789**	**0.0208**	**5.8000e-004**	**0.0213**		**75.0576**	**75.0576**	**2.2100e-003**		**75.1128**

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	29.4091					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**29.6280**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0334	0.0228	0.2578	7.5000e-004	0.0782	6.3000e-004	0.0789	0.0208	5.8000e-004	0.0213		75.0576	75.0576	2.2100e-003		75.1128
Total	**0.0334**	**0.0228**	**0.2578**	**7.5000e-004**	**0.0782**	**6.3000e-004**	**0.0789**	**0.0208**	**5.8000e-004**	**0.0213**		**75.0576**	**75.0576**	**2.2100e-003**		**75.1128**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.5335	2.5534	6.5593	0.0220	1.8025	0.0193	1.8218	0.4824	0.0180	0.5004		2,233.3396	2,233.3396	0.1247		2,236.4580
Unmitigated	0.5892	2.9303	7.8983	0.0273	2.2711	0.0238	2.2949	0.6078	0.0222	0.6300		2,777.7829	2,777.7829	0.1509		2,781.5552

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	312.55	300.33	275.42	1,043,940	828,559
Total	312.55	300.33	275.42	1,043,940	828,559

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0186	0.1590	0.0677	1.0100e-003		0.0129	0.0129		0.0129	0.0129		202.9396	202.9396	3.8900e-003	3.7200e-003	204.1455
NaturalGas Unmitigated	0.0186	0.1590	0.0677	1.0100e-003		0.0129	0.0129		0.0129	0.0129		202.9396	202.9396	3.8900e-003	3.7200e-003	204.1455

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	1724.99	0.0186	0.1590	0.0677	1.0100e-003		0.0129	0.0129		0.0129	0.0129		202.9396	202.9396	3.8900e-003	3.7200e-003	204.1455
Total		**0.0186**	**0.1590**	**0.0677**	**1.0100e-003**		**0.0129**	**0.0129**		**0.0129**	**0.0129**		**202.9396**	**202.9396**	**3.8900e-003**	**3.7200e-003**	**204.1455**

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 Mid Rise	1.72499	0.0186	0.1590	0.0677	1.0100e-003		0.0129	0.0129		0.0129	0.0129		202.9396	202.9396	3.8900e-003	3.7200e-003	204.1455
Total		**0.0186**	**0.1590**	**0.0677**	**1.0100e-003**		**0.0129**	**0.0129**		**0.0129**	**0.0129**		**202.9396**	**202.9396**	**3.8900e-003**	**3.7200e-003**	**204.1455**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0564	0.0449	3.8860	2.0000e-004		0.0214	0.0214		0.0214	0.0214	0.0000	6.9820	6.9820	6.7700e-003	0.0000	7.1511
Unmitigated	1.1289	0.0449	3.8860	2.0000e-004		0.0214	0.0214		0.0214	0.0214	0.0000	6.9820	6.9820	6.7700e-003	0.0000	7.1511

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	0.0806					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9306					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1177	0.0449	3.8860	2.0000e-004		0.0214	0.0214		0.0214	0.0214		6.9820	6.9820	6.7700e-003		7.1511
Total	**1.1289**	**0.0449**	**3.8860**	**2.0000e-004**		**0.0214**	**0.0214**		**0.0214**	**0.0214**	**0.0000**	**6.9820**	**6.9820**	**6.7700e-003**	**0.0000**	**7.1511**

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	8.0600e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9306					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1177	0.0449	3.8860	2.0000e-004		0.0214	0.0214		0.0214	0.0214		6.9820	6.9820	6.7700e-003		7.1511
Total	**1.0564**	**0.0449**	**3.8860**	**2.0000e-004**		**0.0214**	**0.0214**		**0.0214**	**0.0214**	**0.0000**	**6.9820**	**6.9820**	**6.7700e-003**	**0.0000**	**7.1511**

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

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Artesia HO-O Zone Implementation - Area D

Los Angeles-South Coast County, Mitigation Report

Construction Mitigation Summary

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

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	1	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	2	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Rollers	Diesel	No Change	0	1	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	3	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	7	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	1	No Change	0.00
Welders	Diesel	No Change	0	3	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Air Compressors	1.09000E-003	7.63000E-003	9.09000E-003	1.00000E-005	4.70000E-004	4.70000E-004	0.00000E+000	1.27663E+000	1.27663E+000	9.00000E-005	0.00000E+000	1.27882E+000
Cement and Mortar Mixers	2.20000E-004	1.38000E-003	1.16000E-003	0.00000E+000	5.00000E-005	5.00000E-005	0.00000E+000	1.71850E-001	1.71850E-001	2.00000E-005	0.00000E+000	1.72300E-001
Concrete/Industrial Saws	4.18000E-003	3.29900E-002	3.68700E-002	6.00000E-005	1.98000E-003	1.98000E-003	0.00000E+000	5.37656E+000	5.37656E+000	3.40000E-004	0.00000E+000	5.38508E+000
Cranes	5.60000E-004	6.72000E-003	2.64000E-003	1.00000E-005	2.80000E-004	2.50000E-004	0.00000E+000	6.33650E-001	6.33650E-001	2.00000E-004	0.00000E+000	6.38780E-001
Forklifts	1.07600E-002	9.70000E-002	8.84900E-002	1.10000E-004	7.22000E-003	6.64000E-003	0.00000E+000	1.00719E+001	1.00719E+001	3.26000E-003	0.00000E+000	1.01533E+001
Generator Sets	3.97600E-002	3.46770E-001	3.70480E-001	6.60000E-004	1.95200E-002	1.95200E-002	0.00000E+000	5.65208E+001	5.65208E+001	3.17000E-003	0.00000E+000	5.66001E+001
Graders	1.19000E-003	1.58100E-002	4.54000E-003	2.00000E-005	5.10000E-004	4.70000E-004	0.00000E+000	1.45766E+000	1.45766E+000	4.70000E-004	0.00000E+000	1.46945E+000
Pavers	9.20000E-004	9.73000E-003	1.08900E-002	2.00000E-005	4.70000E-004	4.30000E-004	0.00000E+000	1.54809E+000	1.54809E+000	5.00000E-004	0.00000E+000	1.56061E+000
Paving Equipment	9.60000E-004	9.70000E-003	1.27100E-002	2.00000E-005	4.80000E-004	4.40000E-004	0.00000E+000	1.78922E+000	1.78922E+000	5.80000E-004	0.00000E+000	1.80369E+000
Rollers	8.30000E-004	8.42000E-003	8.23000E-003	1.00000E-005	5.10000E-004	4.70000E-004	0.00000E+000	1.00846E+000	1.00846E+000	3.30000E-004	0.00000E+000	1.01662E+000
Rubber Tired Dozers	1.33600E-002	1.40240E-001	5.11300E-002	1.10000E-004	6.87000E-003	6.32000E-003	0.00000E+000	9.28809E+000	9.28809E+000	3.00000E-003	0.00000E+000	9.36319E+000
Tractors/Loaders/Backhoes	2.34500E-002	2.35760E-001	2.56890E-001	3.50000E-004	1.48500E-002	1.36600E-002	0.00000E+000	3.07650E+001	3.07650E+001	9.95000E-003	0.00000E+000	3.10138E+001
Welders	1.02210E-001	4.70740E-001	5.29600E-001	7.70000E-004	2.59300E-002	2.59300E-002	0.00000E+000	5.64662E+001	5.64662E+001	8.31000E-003	0.00000E+000	5.66740E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Mitigated tons/yr						Mitigated mt/yr					
Air Compressors	1.09000E-003	7.63000E-003	9.09000E-003	1.00000E-005	4.70000E-004	4.70000E-004	0.00000E+000	1.27663E+000	1.27663E+000	9.00000E-005	0.00000E+000	1.27882E+000
Cement and Mortar Mixers	2.20000E-004	1.38000E-003	1.16000E-003	0.00000E+000	5.00000E-005	5.00000E-005	0.00000E+000	1.71850E-001	1.71850E-001	2.00000E-005	0.00000E+000	1.72300E-001
Concrete/Industrial Saws	4.18000E-003	3.29900E-002	3.68700E-002	6.00000E-005	1.98000E-003	1.98000E-003	0.00000E+000	5.37656E+000	5.37656E+000	3.40000E-004	0.00000E+000	5.38507E+000
Cranes	5.60000E-004	6.72000E-003	2.64000E-003	1.00000E-005	2.80000E-004	2.50000E-004	0.00000E+000	6.33650E-001	6.33650E-001	2.00000E-004	0.00000E+000	6.38780E-001
Forklifts	1.07600E-002	9.70000E-002	8.84900E-002	1.10000E-004	7.22000E-003	6.64000E-003	0.00000E+000	1.00718E+001	1.00718E+001	3.26000E-003	0.00000E+000	1.01533E+001
Generator Sets	3.97600E-002	3.46770E-001	3.70480E-001	6.60000E-004	1.95200E-002	1.95200E-002	0.00000E+000	5.65207E+001	5.65207E+001	3.17000E-003	0.00000E+000	5.66000E+001
Graders	1.19000E-003	1.58100E-002	4.54000E-003	2.00000E-005	5.10000E-004	4.70000E-004	0.00000E+000	1.45766E+000	1.45766E+000	4.70000E-004	0.00000E+000	1.46945E+000
Pavers	9.20000E-004	9.73000E-003	1.08900E-002	2.00000E-005	4.70000E-004	4.30000E-004	0.00000E+000	1.54809E+000	1.54809E+000	5.00000E-004	0.00000E+000	1.56061E+000
Paving Equipment	9.60000E-004	9.70000E-003	1.27100E-002	2.00000E-005	4.80000E-004	4.40000E-004	0.00000E+000	1.78922E+000	1.78922E+000	5.80000E-004	0.00000E+000	1.80369E+000
Rollers	8.30000E-004	8.42000E-003	8.23000E-003	1.00000E-005	5.10000E-004	4.70000E-004	0.00000E+000	1.00846E+000	1.00846E+000	3.30000E-004	0.00000E+000	1.01661E+000
Rubber Tired Dozers	1.33600E-002	1.40240E-001	5.11300E-002	1.10000E-004	6.87000E-003	6.32000E-003	0.00000E+000	9.28808E+000	9.28808E+000	3.00000E-003	0.00000E+000	9.36317E+000
Tractors/Loaders/Backhoes	2.34500E-002	2.35760E-001	2.56890E-001	3.50000E-004	1.48500E-002	1.36600E-002	0.00000E+000	3.07650E+001	3.07650E+001	9.95000E-003	0.00000E+000	3.10138E+001
Welders	1.02210E-001	4.70740E-001	5.29600E-001	7.70000E-004	2.59300E-002	2.59300E-002	0.00000E+000	5.64661E+001	5.64661E+001	8.31000E-003	0.00000E+000	5.66739E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.85698E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.92866E-007	9.92866E-007	0.00000E+000	0.00000E+000	9.84903E-007
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23848E-006	1.23848E-006	0.00000E+000	0.00000E+000	1.23675E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.83652E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.07665E-006	1.07665E-006	0.00000E+000	0.00000E+000	2.13602E-006
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.30018E-006	1.30018E-006	0.00000E+000	0.00000E+000	1.28975E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23968E-006	1.23968E-006	0.00000E+000	0.00000E+000	1.23513E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input		Mitigation Input		Mitigation Input	
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00

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

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.04	0.01	0.04	0.01	0.00	0.00
Demolition	Fugitive Dust	0.01	0.00	0.00	0.00	0.55	0.55
Demolition	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Grading	Fugitive Dust	0.01	0.01	0.00	0.00	0.55	0.55
Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.01	0.00	0.00	0.00	0.55	0.55
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	90.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.00	0.00	0.05
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	9.74	12.89	17.16	19.68	19.00	18.83	0.00	19.56	19.56	17.51	0.00	19.55
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	15.14	15.37	19.96	19.44	15.99
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting: Urban

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
Yes	Land Use	Increase Density	0.00	30.00		
No	Land Use	Increase Diversity	-0.01	0.13		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.21			

No	Neighborhood Enhancements	Improve Pedestrian Network				
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.21			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"	7.70			
No	Commute	Workplace Parking Charge				
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00		2.00	
No	Commute	Provide Ride Sharing Program	15.00			
	Commute	Commute Subtotal	0.00			

No	School Trip	Implement School Bus Program	0.00			
		Total VMT Reduction	0.21			

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
Yes	No Hearth	
No	Use Low VOC Cleaning Supplies	
Yes	Use Low VOC Paint (Residential Interior)	5.00
Yes	Use Low VOC Paint (Residential Exterior)	5.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
Yes	On-site Renewable	102.89	

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

Water Mitigation Measures

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

Solid Waste Mitigation

Mitigation Measures	Input Value

Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

Artesia HO-O Zone Implementation - Area E

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	13.00	Dwelling Unit	0.44	13,000.00	37

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction hypothesized to start in March 2020 for model purposes.
Project modeled to be operational in 2021.

Land Use - Combined Group E lot area.
Dimensions - L.A. Co. Assessor.

Construction Phase - Defaults used.

Off-road Equipment - Defaults used.

Grading - Assumes no cut/fill. Terrain is flat.

Off-road Equipment - Defaults used.

Off-road Equipment - Cranes anticipated to be used approx 7 days over 100-day consruction period.
7 days/100 days = 0.1 = fractional crane use over whole period.

Off-road Equipment - Defaults used.

Off-road Equipment - Defaults used.
Off-road Equipment - Defaults used.

Demolition - Extg bldg square footage obtained from L.A. Co. Assessor.

Trips and VMT - Defaults used.

On-road Fugitive Dust - Defaults used.

Architectural Coating - Defaults used.

Woodstoves - No fireplaces/wood stoves.

Consumer Products - Defaults used.

Area Coating - Defaults used.

Energy Use - Defaults used.

Water And Wastewater - Defaults used.

Solid Waste - Defaults used.

Land Use Change - No natural vegetation changes - area previously developed, urban.

Sequestration - Assumes 1/4 tree/unit.

Mobile Land Use Mitigation - Density overall increased from ~ 15/acre to 30/acre

Area Mitigation - Zero VOC coatings indicated to be 5 g/l or less - used Dunn-Edwards "Everest" zero-VOC paint as example.

Energy Mitigation - Required PV installation per 2018 Title 24 Multifamily Residential on-site solar provision.
See Cal. Energy Comm, Residential Compliance Manual, December 2018, p. 7-1 for calculating PV system size.

Water Mitigation - faults used; assume Ti. 24 compliance for low-flow fixtures.

Artesia HO-O Zone Implementation - Area E - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	5
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	5
tblFireplaces	NumberGas	11.05	0.00
tblFireplaces	NumberNoFireplace	1.30	13.00
tblFireplaces	NumberWood	0.65	0.00
tblLandUse	LotAcreage	0.34	0.44
tblOffRoadEquipment	UsageHours	4.00	0.10
tblSequestration	NumberOfNewTrees	0.00	3.00
tblWoodstoves	NumberCatalytic	0.65	0.00
tblWoodstoves	NumberNoncatalytic	0.65	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0836	0.3938	0.4129	6.2000e-004	8.5000e-003	0.0250	0.0335	2.3300e-003	0.0231	0.0255	0.0000	54.6671	54.6671	0.0145	0.0000	55.0301
Maximum	**0.0836**	**0.3938**	**0.4129**	**6.2000e-004**	**8.5000e-003**	**0.0250**	**0.0335**	**2.3300e-003**	**0.0231**	**0.0255**	**0.0000**	**54.6671**	**54.6671**	**0.0145**	**0.0000**	**55.0301**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0836	0.3938	0.4129	6.2000e-004	8.5000e-003	0.0250	0.0335	2.3300e-003	0.0231	0.0255	0.0000	54.6670	54.6670	0.0145	0.0000	55.0300
Maximum	**0.0836**	**0.3938**	**0.4129**	**6.2000e-004**	**8.5000e-003**	**0.0250**	**0.0335**	**2.3300e-003**	**0.0231**	**0.0255**	**0.0000**	**54.6670**	**54.6670**	**0.0145**	**0.0000**	**55.0300**

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-2-2020	6-1-2020	0.2439	0.2439
2	6-2-2020	9-1-2020	0.2294	0.2294
		Highest	0.2439	0.2439

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	0.0551	1.5500e-003	0.1344	1.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	0.2190	0.2190	2.1000e-004	0.0000	0.2243
Energy	9.4000e-004	8.0200e-003	3.4100e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	26.0612	26.0612	8.7000e-004	3.1000e-004	26.1764
Mobile	0.0283	0.1469	0.3943	1.3600e-003	0.1096	1.1600e-003	0.1108	0.0294	1.0900e-003	0.0305	0.0000	125.7315	125.7315	6.7100e-003	0.0000	125.8993
Waste						0.0000	0.0000		0.0000	0.0000	1.2139	0.0000	1.2139	0.0717	0.0000	3.0074
Water						0.0000	0.0000		0.0000	0.0000	0.2687	5.4042	5.6730	0.0278	7.0000e-004	6.5765
Total	**0.0844**	**0.1565**	**0.5321**	**1.4200e-003**	**0.1096**	**2.5500e-003**	**0.1122**	**0.0294**	**2.4800e-003**	**0.0319**	**1.4826**	**157.4159**	**158.8985**	**0.1074**	**1.0100e-003**	**161.8838**

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	0.0515	1.5500e-003	0.1344	1.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	0.2190	0.2190	2.1000e-004	0.0000	0.2243
Energy	9.4000e-004	8.0200e-003	3.4100e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	21.7971	21.7971	6.9000e-004	2.8000e-004	21.8971
Mobile	0.0256	0.1280	0.3266	1.1000e-003	0.0870	9.4000e-004	0.0879	0.0233	8.8000e-004	0.0242	0.0000	101.1438	101.1438	5.5400e-003	0.0000	101.2822
Waste						0.0000	0.0000		0.0000	0.0000	1.2139	0.0000	1.2139	0.0717	0.0000	3.0074
Water						0.0000	0.0000		0.0000	0.0000	0.2150	4.5861	4.8011	0.0223	5.6000e-004	5.5249
Total	**0.0780**	**0.1375**	**0.4644**	**1.1600e-003**	**0.0870**	**2.3300e-003**	**0.0893**	**0.0233**	**2.2700e-003**	**0.0256**	**1.4289**	**127.7460**	**129.1749**	**0.1005**	**8.4000e-004**	**131.9358**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**7.61**	**12.10**	**12.72**	**18.31**	**20.63**	**8.63**	**20.37**	**20.63**	**8.47**	**19.65**	**3.62**	**18.85**	**18.71**	**6.43**	**16.83**	**18.50**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	2.1240
Total	**2.1240**

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	3/2/2020	3/13/2020	5	10	
2	Site Preparation	Site Preparation	3/14/2020	3/16/2020	5	1	
3	Grading	Grading	3/17/2020	3/18/2020	5	2	
4	Building Construction	Building Construction	3/19/2020	8/5/2020	5	100	
5	Paving	Paving	8/6/2020	8/12/2020	5	5	
6	Architectural Coating	Architectural Coating	8/13/2020	8/19/2020	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 26,325; Residential Outdoor: 8,775; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	0.10	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	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
Architectural Coating	1	2.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	9.00	1.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	10.00	0.00	9.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					9.3000e-004	0.0000	9.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.3400e-003	0.0394	0.0381	6.0000e-005		2.3400e-003	2.3400e-003		2.2300e-003	2.2300e-003	0.0000	5.2038	5.2038	9.8000e-004	0.0000	5.2284
Total	**4.3400e-003**	**0.0394**	**0.0381**	**6.0000e-005**	**9.3000e-004**	**2.3400e-003**	**3.2700e-003**	**1.4000e-004**	**2.2300e-003**	**2.3700e-003**	**0.0000**	**5.2038**	**5.2038**	**9.8000e-004**	**0.0000**	**5.2284**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	1.3400e-003	2.9000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.3469	0.3469	2.0000e-005	0.0000	0.3475
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.9000e-004	2.0600e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5107	0.5107	2.0000e-005	0.0000	0.5111
Total	**2.7000e-004**	**1.5300e-003**	**2.3500e-003**	**1.0000e-005**	**6.3000e-004**	**0.0000**	**6.3000e-004**	**1.7000e-004**	**0.0000**	**1.8000e-004**	**0.0000**	**0.8575**	**0.8575**	**4.0000e-005**	**0.0000**	**0.8585**

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					9.3000e-004	0.0000	9.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.3400e-003	0.0394	0.0381	6.0000e-005		2.3400e-003	2.3400e-003		2.2300e-003	2.2300e-003	0.0000	5.2038	5.2038	9.8000e-004	0.0000	5.2284
Total	**4.3400e-003**	**0.0394**	**0.0381**	**6.0000e-005**	**9.3000e-004**	**2.3400e-003**	**3.2700e-003**	**1.4000e-004**	**2.2300e-003**	**2.3700e-003**	**0.0000**	**5.2038**	**5.2038**	**9.8000e-004**	**0.0000**	**5.2284**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.0000e-005	1.3400e-003	2.9000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.3469	0.3469	2.0000e-005	0.0000	0.3475
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.9000e-004	2.0600e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5107	0.5107	2.0000e-005	0.0000	0.5111
Total	**2.7000e-004**	**1.5300e-003**	**2.3500e-003**	**1.0000e-005**	**6.3000e-004**	**0.0000**	**6.3000e-004**	**1.7000e-004**	**0.0000**	**1.8000e-004**	**0.0000**	**0.8575**	**0.8575**	**4.0000e-005**	**0.0000**	**0.8585**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4000e-004	4.2200e-003	2.0500e-003	0.0000		1.7000e-004	1.7000e-004		1.5000e-004	1.5000e-004	0.0000	0.4280	0.4280	1.4000e-004	0.0000	0.4314
Total	**3.4000e-004**	**4.2200e-003**	**2.0500e-003**	**0.0000**	**2.7000e-004**	**1.7000e-004**	**4.4000e-004**	**3.0000e-005**	**1.5000e-004**	**1.8000e-004**	**0.0000**	**0.4280**	**0.4280**	**1.4000e-004**	**0.0000**	**0.4314**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	1.0000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0255	0.0255	0.0000	0.0000	0.0256
Total	**1.0000e-005**	**1.0000e-005**	**1.0000e-004**	**0.0000**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0255**	**0.0255**	**0.0000**	**0.0000**	**0.0256**

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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4000e-004	4.2200e-003	2.0500e-003	0.0000		1.7000e-004	1.7000e-004		1.5000e-004	1.5000e-004	0.0000	0.4280	0.4280	1.4000e-004	0.0000	0.4314
Total	**3.4000e-004**	**4.2200e-003**	**2.0500e-003**	**0.0000**	**2.7000e-004**	**1.7000e-004**	**4.4000e-004**	**3.0000e-005**	**1.5000e-004**	**1.8000e-004**	**0.0000**	**0.4280**	**0.4280**	**1.4000e-004**	**0.0000**	**0.4314**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	1.0000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0255	0.0255	0.0000	0.0000	0.0256
Total	**1.0000e-005**	**1.0000e-005**	**1.0000e-004**	**0.0000**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0255**	**0.0255**	**0.0000**	**0.0000**	**0.0256**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.7000e-004	7.8700e-003	7.6200e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.5000e-004	4.5000e-004	0.0000	1.0408	1.0408	2.0000e-004	0.0000	1.0457
Total	**8.7000e-004**	**7.8700e-003**	**7.6200e-003**	**1.0000e-005**	**7.5000e-004**	**4.7000e-004**	**1.2200e-003**	**4.1000e-004**	**4.5000e-004**	**8.6000e-004**	**0.0000**	**1.0408**	**1.0408**	**2.0000e-004**	**0.0000**	**1.0457**

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	4.0000e-005	4.1000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1021	0.1021	0.0000	0.0000	0.1022
Total	**5.0000e-005**	**4.0000e-005**	**4.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.1021**	**0.1021**	**0.0000**	**0.0000**	**0.1022**

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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.7000e-004	7.8700e-003	7.6200e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.5000e-004	4.5000e-004	0.0000	1.0408	1.0408	2.0000e-004	0.0000	1.0457
Total	**8.7000e-004**	**7.8700e-003**	**7.6200e-003**	**1.0000e-005**	**7.5000e-004**	**4.7000e-004**	**1.2200e-003**	**4.1000e-004**	**4.5000e-004**	**8.6000e-004**	**0.0000**	**1.0408**	**1.0408**	**2.0000e-004**	**0.0000**	**1.0457**

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	4.0000e-005	4.1000e-004	0.0000	1.1000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1021	0.1021	0.0000	0.0000	0.1022
Total	**5.0000e-005**	**4.0000e-005**	**4.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**3.0000e-005**	**0.0000**	**3.0000e-005**	**0.0000**	**0.1021**	**0.1021**	**0.0000**	**0.0000**	**0.1022**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0320	0.3112	0.3178	4.3000e-004		0.0207	0.0207		0.0190	0.0190	0.0000	37.6739	37.6739	0.0122	0.0000	37.9786
Total	**0.0320**	**0.3112**	**0.3178**	**4.3000e-004**		**0.0207**	**0.0207**		**0.0190**	**0.0190**	**0.0000**	**37.6739**	**37.6739**	**0.0122**	**0.0000**	**37.9786**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8000e-004	5.4200e-003	1.4700e-003	1.0000e-005	3.1000e-004	3.0000e-005	3.4000e-004	9.0000e-005	2.0000e-005	1.2000e-004	0.0000	1.2421	1.2421	8.0000e-005	0.0000	1.2441
Worker	2.0800e-003	1.6800e-003	0.0185	5.0000e-005	4.9300e-003	4.0000e-005	4.9700e-003	1.3100e-003	4.0000e-005	1.3500e-003	0.0000	4.5961	4.5961	1.4000e-004	0.0000	4.5997
Total	**2.2600e-003**	**7.1000e-003**	**0.0200**	**6.0000e-005**	**5.2400e-003**	**7.0000e-005**	**5.3100e-003**	**1.4000e-003**	**6.0000e-005**	**1.4700e-003**	**0.0000**	**5.8382**	**5.8382**	**2.2000e-004**	**0.0000**	**5.8438**

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	0.0320	0.3112	0.3178	4.3000e-004		0.0207	0.0207		0.0190	0.0190	0.0000	37.6739	37.6739	0.0122	0.0000	37.9785
Total	**0.0320**	**0.3112**	**0.3178**	**4.3000e-004**		**0.0207**	**0.0207**		**0.0190**	**0.0190**	**0.0000**	**37.6739**	**37.6739**	**0.0122**	**0.0000**	**37.9785**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8000e-004	5.4200e-003	1.4700e-003	1.0000e-005	3.1000e-004	3.0000e-005	3.4000e-004	9.0000e-005	2.0000e-005	1.2000e-004	0.0000	1.2421	1.2421	8.0000e-005	0.0000	1.2441
Worker	2.0800e-003	1.6800e-003	0.0185	5.0000e-005	4.9300e-003	4.0000e-005	4.9700e-003	1.3100e-003	4.0000e-005	1.3500e-003	0.0000	4.5961	4.5961	1.4000e-004	0.0000	4.5997
Total	**2.2600e-003**	**7.1000e-003**	**0.0200**	**6.0000e-005**	**5.2400e-003**	**7.0000e-005**	**5.3100e-003**	**1.4000e-003**	**6.0000e-005**	**1.4700e-003**	**0.0000**	**5.8382**	**5.8382**	**2.2000e-004**	**0.0000**	**5.8438**

3.6 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.9300e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.9300e-003**	**0.0181**	**0.0178**	**3.0000e-005**		**9.9000e-004**	**9.9000e-004**		**9.2000e-004**	**9.2000e-004**	**0.0000**	**2.3482**	**2.3482**	**6.8000e-004**	**0.0000**	**2.3653**

3.6 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.7000e-004	1.8500e-003	1.0000e-005	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4596	0.4596	1.0000e-005	0.0000	0.4600
Total	**2.1000e-004**	**1.7000e-004**	**1.8500e-003**	**1.0000e-005**	**4.9000e-004**	**0.0000**	**5.0000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4596**	**0.4596**	**1.0000e-005**	**0.0000**	**0.4600**

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	1.9300e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**1.9300e-003**	**0.0181**	**0.0178**	**3.0000e-005**		**9.9000e-004**	**9.9000e-004**		**9.2000e-004**	**9.2000e-004**	**0.0000**	**2.3482**	**2.3482**	**6.8000e-004**	**0.0000**	**2.3653**

3.6 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.7000e-004	1.8500e-003	1.0000e-005	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4596	0.4596	1.0000e-005	0.0000	0.4600
Total	**2.1000e-004**	**1.7000e-004**	**1.8500e-003**	**1.0000e-005**	**4.9000e-004**	**0.0000**	**5.0000e-004**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**0.4596**	**0.4596**	**1.0000e-005**	**0.0000**	**0.4600**

3.7 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0407					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1000e-004	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396
Total	**0.0413**	**4.2100e-003**	**4.5800e-003**	**1.0000e-005**		**2.8000e-004**	**2.8000e-004**		**2.8000e-004**	**2.8000e-004**	**0.0000**	**0.6383**	**0.6383**	**5.0000e-005**	**0.0000**	**0.6396**

3.7 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	2.0000e-005	2.1000e-004	0.0000	5.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0511	0.0511	0.0000	0.0000	0.0511
Total	**2.0000e-005**	**2.0000e-005**	**2.1000e-004**	**0.0000**	**5.0000e-005**	**0.0000**	**6.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0511**	**0.0511**	**0.0000**	**0.0000**	**0.0511**

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	0.0407					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1000e-004	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396
Total	**0.0413**	**4.2100e-003**	**4.5800e-003**	**1.0000e-005**		**2.8000e-004**	**2.8000e-004**		**2.8000e-004**	**2.8000e-004**	**0.0000**	**0.6383**	**0.6383**	**5.0000e-005**	**0.0000**	**0.6396**

3.7 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	2.0000e-005	2.1000e-004	0.0000	5.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0511	0.0511	0.0000	0.0000	0.0511
Total	**2.0000e-005**	**2.0000e-005**	**2.1000e-004**	**0.0000**	**5.0000e-005**	**0.0000**	**6.0000e-005**	**1.0000e-005**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0511**	**0.0511**	**0.0000**	**0.0000**	**0.0511**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0256	0.1280	0.3266	1.1000e-003	0.0870	9.4000e-004	0.0879	0.0233	8.8000e-004	0.0242	0.0000	101.1438	101.1438	5.5400e-003	0.0000	101.2822
Unmitigated	0.0283	0.1469	0.3943	1.3600e-003	0.1096	1.1600e-003	0.1108	0.0294	1.0900e-003	0.0305	0.0000	125.7315	125.7315	6.7100e-003	0.0000	125.8993

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	86.45	83.07	76.18	288,749	229,176
Total	86.45	83.07	76.18	288,749	229,176

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	12.5038	12.5038	5.2000e-004	1.1000e-004	12.5485
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	16.7678	16.7678	6.9000e-004	1.4000e-004	16.8278
NaturalGas Mitigated	9.4000e-004	8.0200e-003	3.4100e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.2933	9.2933	1.8000e-004	1.7000e-004	9.3485
NaturalGas Unmitigated	9.4000e-004	8.0200e-003	3.4100e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.2933	9.2933	1.8000e-004	1.7000e-004	9.3485

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	174150	9.4000e-004	8.0200e-003	3.4100e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.2933	9.2933	1.8000e-004	1.7000e-004	9.3485
Total		**9.4000e-004**	**8.0200e-003**	**3.4100e-003**	**5.0000e-005**		**6.5000e-004**	**6.5000e-004**		**6.5000e-004**	**6.5000e-004**	**0.0000**	**9.2933**	**9.2933**	**1.8000e-004**	**1.7000e-004**	**9.3485**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	174150	9.4000e-004	8.0200e-003	3.4100e-003	5.0000e-005		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	9.2933	9.2933	1.8000e-004	1.7000e-004	9.3485
Total		**9.4000e-004**	**8.0200e-003**	**3.4100e-003**	**5.0000e-005**		**6.5000e-004**	**6.5000e-004**		**6.5000e-004**	**6.5000e-004**	**0.0000**	**9.2933**	**9.2933**	**1.8000e-004**	**1.7000e-004**	**9.3485**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	52626.2	16.7678	6.9000e-004	1.4000e-004	16.8278
Total		**16.7678**	**6.9000e-004**	**1.4000e-004**	**16.8278**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	39243.4	12.5038	5.2000e-004	1.1000e-004	12.5485
Total		**12.5038**	**5.2000e-004**	**1.1000e-004**	**12.5485**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0515	1.5500e-003	0.1344	1.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	0.2190	0.2190	2.1000e-004	0.0000	0.2243
Unmitigated	0.0551	1.5500e-003	0.1344	1.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	0.2190	0.2190	2.1000e-004	0.0000	0.2243

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	4.0700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0470					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0700e-003	1.5500e-003	0.1344	1.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	0.2190	0.2190	2.1000e-004	0.0000	0.2243
Total	**0.0551**	**1.5500e-003**	**0.1344**	**1.0000e-005**		**7.4000e-004**	**7.4000e-004**		**7.4000e-004**	**7.4000e-004**	**0.0000**	**0.2190**	**0.2190**	**2.1000e-004**	**0.0000**	**0.2243**

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	4.1000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0470					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0700e-003	1.5500e-003	0.1344	1.0000e-005		7.4000e-004	7.4000e-004		7.4000e-004	7.4000e-004	0.0000	0.2190	0.2190	2.1000e-004	0.0000	0.2243
Total	**0.0515**	**1.5500e-003**	**0.1344**	**1.0000e-005**		**7.4000e-004**	**7.4000e-004**		**7.4000e-004**	**7.4000e-004**	**0.0000**	**0.2190**	**0.2190**	**2.1000e-004**	**0.0000**	**0.2243**

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	4.8011	0.0223	5.6000e-004	5.5249
Unmitigated	5.6730	0.0278	7.0000e-004	6.5765

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	0.847002 / 0.53398	5.6730	0.0278	7.0000e-004	6.5765
Total		**5.6730**	**0.0278**	**7.0000e-004**	**6.5765**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	0.677602 / 0.501407	4.8011	0.0223	5.6000e-004	5.5249
Total		**4.8011**	**0.0223**	**5.6000e-004**	**5.5249**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.2139	0.0717	0.0000	3.0074
Unmitigated	1.2139	0.0717	0.0000	3.0074

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	5.98	1.2139	0.0717	0.0000	3.0074
Total		**1.2139**	**0.0717**	**0.0000**	**3.0074**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	5.98	1.2139	0.0717	0.0000	3.0074
Total		**1.2139**	**0.0717**	**0.0000**	**3.0074**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	2.1240	0.0000	0.0000	2.1240

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	3	2.1240	0.0000	0.0000	2.1240
Total		**2.1240**	**0.0000**	**0.0000**	**2.1240**

Artesia HO-O Zone Implementation - Area E

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	13.00	Dwelling Unit	0.44	13,000.00	37

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction hypothesized to start in March 2020 for model purposes.
Project modeled to be operational in 2021.

Land Use - Combined Group E lot area.
Dimensions - L.A. Co. Assessor.

Construction Phase - Defaults used.

Off-road Equipment - Defaults used.

Grading - Assumes no cut/fill. Terrain is flat.

Off-road Equipment - Defaults used.

Off-road Equipment - Cranes anticipated to be used approx 7 days over 100-day consruction period.
7 days/100 days = 0.1 = fractional crane use over whole period.

Off-road Equipment - Defaults used.

Off-road Equipment - Defaults used.
Off-road Equipment - Defaults used.

Demolition - Extg bldg square footage obtained from L.A. Co. Assessor.

Trips and VMT - Defaults used.

On-road Fugitive Dust - Defaults used.

Architectural Coating - Defaults used.

Woodstoves - No fireplaces/wood stoves.

Consumer Products - Defaults used.

Area Coating - Defaults used.

Energy Use - Defaults used.

Water And Wastewater - Defaults used.

Solid Waste - Defaults used.

Land Use Change - No natural vegetation changes - area previously developed, urban.

Sequestration - Assumes 1/4 tree/unit.

Mobile Land Use Mitigation - Density overall increased from ~ 15/acre to 30/acre

Area Mitigation - Zero VOC coatings indicated to be 5 g/l or less - used Dunn-Edwards "Everest" zero-VOC paint as example.

Energy Mitigation - Required PV installation per 2018 Title 24 Multifamily Residential on-site solar provision.
See Cal. Energy Comm, Residential Compliance Manual, December 2018, p. 7-1 for calculating PV system size.

Water Mitigation - faults used; assume Ti. 24 compliance for low-flow fixtures.

Artesia HO-O Zone Implementation - Area E - Los Angeles-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	5
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	5
tblFireplaces	NumberGas	11.05	0.00
tblFireplaces	NumberNoFireplace	1.30	13.00
tblFireplaces	NumberWood	0.65	0.00
tblLandUse	LotAcreage	0.34	0.44
tblOffRoadEquipment	UsageHours	4.00	0.10
tblSequestration	NumberOfNewTrees	0.00	3.00
tblWoodstoves	NumberCatalytic	0.65	0.00
tblWoodstoves	NumberNoncatalytic	0.65	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	16.5202	8.4471	8.1177	0.0139	0.8645	0.4690	1.3327	0.4434	0.4473	0.8900	0.0000	1,341.8714	1,341.8714	0.3083	0.0000	1,347.5177
Maximum	**16.5202**	**8.4471**	**8.1177**	**0.0139**	**0.8645**	**0.4690**	**1.3327**	**0.4434**	**0.4473**	**0.8900**	**0.0000**	**1,341.8714**	**1,341.8714**	**0.3083**	**0.0000**	**1,347.5177**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	16.5202	8.4471	8.1177	0.0139	0.8645	0.4690	1.3327	0.4434	0.4473	0.8900	0.0000	1,341.8714	1,341.8714	0.3083	0.0000	1,347.5177
Maximum	**16.5202**	**8.4471**	**8.1177**	**0.0139**	**0.8645**	**0.4690**	**1.3327**	**0.4434**	**0.4473**	**0.8900**	**0.0000**	**1,341.8714**	**1,341.8714**	**0.3083**	**0.0000**	**1,347.5177**

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3123	0.0124	1.0749	6.0000e-005		5.9200e-003	5.9200e-003		5.9200e-003	5.9200e-003	0.0000	1.9312	1.9312	1.8700e-003	0.0000	1.9780
Energy	5.1500e-003	0.0440	0.0187	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003		56.1322	56.1322	1.0800e-003	1.0300e-003	56.4658
Mobile	0.1677	0.7897	2.3023	7.9400e-003	0.6282	6.5400e-003	0.6347	0.1681	6.1100e-003	0.1742		807.3949	807.3949	0.0419		808.4430
Total	**0.4851**	**0.8461**	**3.3958**	**8.2800e-003**	**0.6282**	**0.0160**	**0.6442**	**0.1681**	**0.0156**	**0.1837**	**0.0000**	**865.4583**	**865.4583**	**0.0449**	**1.0300e-003**	**866.8867**

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	0.2922	0.0124	1.0749	6.0000e-005		5.9200e-003	5.9200e-003		5.9200e-003	5.9200e-003	0.0000	1.9312	1.9312	1.8700e-003	0.0000	1.9780
Energy	5.1500e-003	0.0440	0.0187	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003		56.1322	56.1322	1.0800e-003	1.0300e-003	56.4658
Mobile	0.1519	0.6912	1.8940	6.3900e-003	0.4986	5.3000e-003	0.5039	0.1334	4.9500e-003	0.1384		649.5452	649.5452	0.0345		650.4074
Total	**0.4493**	**0.7476**	**2.9876**	**6.7300e-003**	**0.4986**	**0.0148**	**0.5134**	**0.1334**	**0.0144**	**0.1479**	**0.0000**	**707.6086**	**707.6086**	**0.0374**	**1.0300e-003**	**708.8512**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**7.39**	**11.64**	**12.02**	**18.72**	**20.63**	**7.74**	**20.31**	**20.63**	**7.44**	**19.51**	**0.00**	**18.24**	**18.24**	**16.56**	**0.00**	**18.23**

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	3/2/2020	3/13/2020	5	10	
2	Site Preparation	Site Preparation	3/14/2020	3/16/2020	5	1	
3	Grading	Grading	3/17/2020	3/18/2020	5	2	
4	Building Construction	Building Construction	3/19/2020	8/5/2020	5	100	
5	Paving	Paving	8/6/2020	8/12/2020	5	5	
6	Architectural Coating	Architectural Coating	8/13/2020	8/19/2020	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 26,325; Residential Outdoor: 8,775; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Artesia HO-O Zone Implementation - Area E - Los Angeles-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	0.10	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	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
Architectural Coating	1	2.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	9.00	1.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	10.00	0.00	9.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1857	0.0000	0.1857	0.0281	0.0000	0.0281			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457		1,147.2352	1,147.2352	0.2169		1,152.6578
Total	**0.8674**	**7.8729**	**7.6226**	**0.0120**	**0.1857**	**0.4672**	**0.6529**	**0.0281**	**0.4457**	**0.4738**		**1,147.2352**	**1,147.2352**	**0.2169**		**1,152.6578**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.8600e-003	0.2588	0.0573	7.1000e-004	0.0157	8.3000e-004	0.0166	4.3100e-003	7.9000e-004	5.1000e-003		77.0249	77.0249	5.2400e-003		77.1559
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0460	0.0327	0.4378	1.1800e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		117.6113	117.6113	3.7100e-003		117.7040
Total	**0.0539**	**0.2915**	**0.4952**	**1.8900e-003**	**0.1275**	**1.7600e-003**	**0.1293**	**0.0340**	**1.6500e-003**	**0.0356**		**194.6362**	**194.6362**	**8.9500e-003**		**194.8599**

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					0.1857	0.0000	0.1857	0.0281	0.0000	0.0281			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578
Total	**0.8674**	**7.8729**	**7.6226**	**0.0120**	**0.1857**	**0.4672**	**0.6529**	**0.0281**	**0.4457**	**0.4738**	**0.0000**	**1,147.2352**	**1,147.2352**	**0.2169**		**1,152.6578**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.8600e-003	0.2588	0.0573	7.1000e-004	0.0157	8.3000e-004	0.0166	4.3100e-003	7.9000e-004	5.1000e-003		77.0249	77.0249	5.2400e-003		77.1559
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0460	0.0327	0.4378	1.1800e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		117.6113	117.6113	3.7100e-003		117.7040
Total	**0.0539**	**0.2915**	**0.4952**	**1.8900e-003**	**0.1275**	**1.7600e-003**	**0.1293**	**0.0340**	**1.6500e-003**	**0.0356**		**194.6362**	**194.6362**	**8.9500e-003**		**194.8599**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.6853	8.4307	4.0942	9.7400e-003		0.3353	0.3353		0.3085	0.3085		943.4872	943.4872	0.3051		951.1158
Total	**0.6853**	**8.4307**	**4.0942**	**9.7400e-003**	**0.5303**	**0.3353**	**0.8656**	**0.0573**	**0.3085**	**0.3658**		**943.4872**	**943.4872**	**0.3051**		**951.1158**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0230	0.0164	0.2189	5.9000e-004	0.0559	4.7000e-004	0.0564	0.0148	4.3000e-004	0.0153		58.8056	58.8056	1.8500e-003		58.8520
Total	**0.0230**	**0.0164**	**0.2189**	**5.9000e-004**	**0.0559**	**4.7000e-004**	**0.0564**	**0.0148**	**4.3000e-004**	**0.0153**		**58.8056**	**58.8056**	**1.8500e-003**		**58.8520**

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					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.6853	8.4307	4.0942	9.7400e-003		0.3353	0.3353		0.3085	0.3085	0.0000	943.4872	943.4872	0.3051		951.1158
Total	**0.6853**	**8.4307**	**4.0942**	**9.7400e-003**	**0.5303**	**0.3353**	**0.8656**	**0.0573**	**0.3085**	**0.3658**	**0.0000**	**943.4872**	**943.4872**	**0.3051**		**951.1158**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0230	0.0164	0.2189	5.9000e-004	0.0559	4.7000e-004	0.0564	0.0148	4.3000e-004	0.0153		58.8056	58.8056	1.8500e-003		58.8520
Total	**0.0230**	**0.0164**	**0.2189**	**5.9000e-004**	**0.0559**	**4.7000e-004**	**0.0564**	**0.0148**	**4.3000e-004**	**0.0153**		**58.8056**	**58.8056**	**1.8500e-003**		**58.8520**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457		1,147.2352	1,147.2352	0.2169		1,152.6578
Total	**0.8674**	**7.8729**	**7.6226**	**0.0120**	**0.7528**	**0.4672**	**1.2200**	**0.4138**	**0.4457**	**0.8595**		**1,147.2352**	**1,147.2352**	**0.2169**		**1,152.6578**

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0460	0.0327	0.4378	1.1800e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		117.6113	117.6113	3.7100e-003		117.7040
Total	**0.0460**	**0.0327**	**0.4378**	**1.1800e-003**	**0.1118**	**9.3000e-004**	**0.1127**	**0.0296**	**8.6000e-004**	**0.0305**		**117.6113**	**117.6113**	**3.7100e-003**		**117.7040**

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					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578
Total	**0.8674**	**7.8729**	**7.6226**	**0.0120**	**0.7528**	**0.4672**	**1.2200**	**0.4138**	**0.4457**	**0.8595**	**0.0000**	**1,147.2352**	**1,147.2352**	**0.2169**		**1,152.6578**

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0460	0.0327	0.4378	1.1800e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		117.6113	117.6113	3.7100e-003		117.7040
Total	**0.0460**	**0.0327**	**0.4378**	**1.1800e-003**	**0.1118**	**9.3000e-004**	**0.1127**	**0.0296**	**8.6000e-004**	**0.0305**		**117.6113**	**117.6113**	**3.7100e-003**		**117.7040**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6407	6.2239	6.3562	8.5700e-003		0.4140	0.4140		0.3809	0.3809		830.5681	830.5681	0.2686		837.2837
Total	**0.6407**	**6.2239**	**6.3562**	**8.5700e-003**		**0.4140**	**0.4140**		**0.3809**	**0.3809**		**830.5681**	**830.5681**	**0.2686**		**837.2837**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	3.5600e-003	0.1064	0.0279	2.6000e-004	6.4000e-003	5.0000e-004	6.9000e-003	1.8400e-003	4.8000e-004	2.3200e-003		27.7025	27.7025	1.6900e-003		27.7447
Worker	0.0414	0.0295	0.3941	1.0600e-003	0.1006	8.4000e-004	0.1014	0.0267	7.7000e-004	0.0275		105.8502	105.8502	3.3400e-003		105.9336
Total	**0.0450**	**0.1358**	**0.4219**	**1.3200e-003**	**0.1070**	**1.3400e-003**	**0.1083**	**0.0285**	**1.2500e-003**	**0.0298**		**133.5526**	**133.5526**	**5.0300e-003**		**133.6783**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6407	6.2239	6.3562	8.5700e-003		0.4140	0.4140		0.3809	0.3809	0.0000	830.5681	830.5681	0.2686		837.2837
Total	**0.6407**	**6.2239**	**6.3562**	**8.5700e-003**		**0.4140**	**0.4140**		**0.3809**	**0.3809**	**0.0000**	**830.5681**	**830.5681**	**0.2686**		**837.2837**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	3.5600e-003	0.1064	0.0279	2.6000e-004	6.4000e-003	5.0000e-004	6.9000e-003	1.8400e-003	4.8000e-004	2.3200e-003		27.7025	27.7025	1.6900e-003		27.7447
Worker	0.0414	0.0295	0.3941	1.0600e-003	0.1006	8.4000e-004	0.1014	0.0267	7.7000e-004	0.0275		105.8502	105.8502	3.3400e-003		105.9336
Total	**0.0450**	**0.1358**	**0.4219**	**1.3200e-003**	**0.1070**	**1.3400e-003**	**0.1083**	**0.0285**	**1.2500e-003**	**0.0298**		**133.5526**	**133.5526**	**5.0300e-003**		**133.6783**

3.6 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669		1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.7716**	**7.2266**	**7.1128**	**0.0113**		**0.3950**	**0.3950**		**0.3669**	**0.3669**		**1,035.3926**	**1,035.3926**	**0.3016**		**1,042.9323**

3.6 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0828	0.0589	0.7881	2.1300e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		211.7003	211.7003	6.6700e-003		211.8672
Total	**0.0828**	**0.0589**	**0.7881**	**2.1300e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**211.7003**	**211.7003**	**6.6700e-003**		**211.8672**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669	0.0000	1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.7716**	**7.2266**	**7.1128**	**0.0113**		**0.3950**	**0.3950**		**0.3669**	**0.3669**	**0.0000**	**1,035.3926**	**1,035.3926**	**0.3016**		**1,042.9323**

3.6 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0828	0.0589	0.7881	2.1300e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		211.7003	211.7003	6.6700e-003		211.8672
Total	**0.0828**	**0.0589**	**0.7881**	**2.1300e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**211.7003**	**211.7003**	**6.6700e-003**		**211.8672**

3.7 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	16.2689					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	**16.5110**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**		**281.4481**	**281.4481**	**0.0218**		**281.9928**

3.7 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	9.2000e-003	6.5500e-003	0.0876	2.4000e-004	0.0224	1.9000e-004	0.0225	5.9300e-003	1.7000e-004	6.1000e-003		23.5223	23.5223	7.4000e-004		23.5408
Total	**9.2000e-003**	**6.5500e-003**	**0.0876**	**2.4000e-004**	**0.0224**	**1.9000e-004**	**0.0225**	**5.9300e-003**	**1.7000e-004**	**6.1000e-003**		**23.5223**	**23.5223**	**7.4000e-004**		**23.5408**

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	16.2689					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	**16.5110**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**	**0.0000**	**281.4481**	**281.4481**	**0.0218**		**281.9928**

3.7 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	9.2000e-003	6.5500e-003	0.0876	2.4000e-004	0.0224	1.9000e-004	0.0225	5.9300e-003	1.7000e-004	6.1000e-003		23.5223	23.5223	7.4000e-004		23.5408
Total	**9.2000e-003**	**6.5500e-003**	**0.0876**	**2.4000e-004**	**0.0224**	**1.9000e-004**	**0.0225**	**5.9300e-003**	**1.7000e-004**	**6.1000e-003**		**23.5223**	**23.5223**	**7.4000e-004**		**23.5408**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1519	0.6912	1.8940	6.3900e-003	0.4986	5.3000e-003	0.5039	0.1334	4.9500e-003	0.1384		649.5452	649.5452	0.0345		650.4074
Unmitigated	0.1677	0.7897	2.3023	7.9400e-003	0.6282	6.5400e-003	0.6347	0.1681	6.1100e-003	0.1742		807.3949	807.3949	0.0419		808.4430

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	86.45	83.07	76.18	288,749	229,176
Total	86.45	83.07	76.18	288,749	229,176

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	5.1500e-003	0.0440	0.0187	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003		56.1322	56.1322	1.0800e-003	1.0300e-003	56.4658
NaturalGas Unmitigated	5.1500e-003	0.0440	0.0187	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003		56.1322	56.1322	1.0800e-003	1.0300e-003	56.4658

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	477.124	5.1500e-003	0.0440	0.0187	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003		56.1322	56.1322	1.0800e-003	1.0300e-003	56.4658
Total		**5.1500e-003**	**0.0440**	**0.0187**	**2.8000e-004**		**3.5600e-003**	**3.5600e-003**		**3.5600e-003**	**3.5600e-003**		**56.1322**	**56.1322**	**1.0800e-003**	**1.0300e-003**	**56.4658**

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 Mid Rise	0.477124	5.1500e-003	0.0440	0.0187	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003		56.1322	56.1322	1.0800e-003	1.0300e-003	56.4658
Total		**5.1500e-003**	**0.0440**	**0.0187**	**2.8000e-004**		**3.5600e-003**	**3.5600e-003**		**3.5600e-003**	**3.5600e-003**		**56.1322**	**56.1322**	**1.0800e-003**	**1.0300e-003**	**56.4658**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2922	0.0124	1.0749	6.0000e-005		5.9200e-003	5.9200e-003		5.9200e-003	5.9200e-003	0.0000	1.9312	1.9312	1.8700e-003	0.0000	1.9780
Unmitigated	0.3123	0.0124	1.0749	6.0000e-005		5.9200e-003	5.9200e-003		5.9200e-003	5.9200e-003	0.0000	1.9312	1.9312	1.8700e-003	0.0000	1.9780

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	0.0223					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0326	0.0124	1.0749	6.0000e-005		5.9200e-003	5.9200e-003		5.9200e-003	5.9200e-003		1.9312	1.9312	1.8700e-003		1.9780
Total	**0.3123**	**0.0124**	**1.0749**	**6.0000e-005**		**5.9200e-003**	**5.9200e-003**		**5.9200e-003**	**5.9200e-003**	**0.0000**	**1.9312**	**1.9312**	**1.8700e-003**	**0.0000**	**1.9780**

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	2.2300e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0326	0.0124	1.0749	6.0000e-005		5.9200e-003	5.9200e-003		5.9200e-003	5.9200e-003		1.9312	1.9312	1.8700e-003		1.9780
Total	**0.2922**	**0.0124**	**1.0749**	**6.0000e-005**		**5.9200e-003**	**5.9200e-003**		**5.9200e-003**	**5.9200e-003**	**0.0000**	**1.9312**	**1.9312**	**1.8700e-003**	**0.0000**	**1.9780**

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

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Artesia HO-O Zone Implementation - Area E

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	13.00	Dwelling Unit	0.44	13,000.00	37

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction hypothesized to start in March 2020 for model purposes.
Project modeled to be operational in 2021.

Land Use - Combined Group E lot area.
Dimensions - L.A. Co. Assessor.

Construction Phase - Defaults used.

Off-road Equipment - Defaults used.

Grading - Assumes no cut/fill. Terrain is flat.

Off-road Equipment - Defaults used.

Off-road Equipment - Cranes anticipated to be used approx 7 days over 100-day consruction period.
7 days/100 days = 0.1 = fractional crane use over whole period.

Off-road Equipment - Defaults used.

Off-road Equipment - Defaults used.
Off-road Equipment - Defaults used.

Demolition - Extg bldg square footage obtained from L.A. Co. Assessor.

Trips and VMT - Defaults used.

On-road Fugitive Dust - Defaults used.

Architectural Coating - Defaults used.

Woodstoves - No fireplaces/wood stoves.

Consumer Products - Defaults used.

Area Coating - Defaults used.

Energy Use - Defaults used.

Water And Wastewater - Defaults used.

Solid Waste - Defaults used.

Land Use Change - No natural vegetation changes - area previously developed, urban.

Sequestration - Assumes 1/4 tree/unit.

Mobile Land Use Mitigation - Density overall increased from ~ 15/acre to 30/acre

Area Mitigation - Zero VOC coatings indicated to be 5 g/l or less - used Dunn-Edwards "Everest" zero-VOC paint as example.

Energy Mitigation - Required PV installation per 2018 Title 24 Multifamily Residential on-site solar provision.
See Cal. Energy Comm, Residential Compliance Manual, December 2018, p. 7-1 for calculating PV system size.

Water Mitigation - faults used; assume Ti. 24 compliance for low-flow fixtures.

Artesia HO-O Zone Implementation - Area E - Los Angeles-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	5
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	5
tblFireplaces	NumberGas	11.05	0.00
tblFireplaces	NumberNoFireplace	1.30	13.00
tblFireplaces	NumberWood	0.65	0.00
tblLandUse	LotAcreage	0.34	0.44
tblOffRoadEquipment	UsageHours	4.00	0.10
tblSequestration	NumberOfNewTrees	0.00	3.00
tblWoodstoves	NumberCatalytic	0.65	0.00
tblWoodstoves	NumberNoncatalytic	0.65	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	16.5213	8.4488	8.0845	0.0138	0.8645	0.4690	1.3327	0.4434	0.4473	0.8900	0.0000	1,333.6757	1,333.6757	0.3079	0.0000	1,339.3214
Maximum	**16.5213**	**8.4488**	**8.0845**	**0.0138**	**0.8645**	**0.4690**	**1.3327**	**0.4434**	**0.4473**	**0.8900**	**0.0000**	**1,333.6757**	**1,333.6757**	**0.3079**	**0.0000**	**1,339.3214**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	16.5213	8.4488	8.0845	0.0138	0.8645	0.4690	1.3327	0.4434	0.4473	0.8900	0.0000	1,333.6757	1,333.6757	0.3079	0.0000	1,339.3214
Maximum	**16.5213**	**8.4488**	**8.0845**	**0.0138**	**0.8645**	**0.4690**	**1.3327**	**0.4434**	**0.4473**	**0.8900**	**0.0000**	**1,333.6757**	**1,333.6757**	**0.3079**	**0.0000**	**1,339.3214**

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3123	0.0124	1.0749	6.0000e-005		5.9200e-003	5.9200e-003		5.9200e-003	5.9200e-003	0.0000	1.9312	1.9312	1.8700e-003	0.0000	1.9780
Energy	5.1500e-003	0.0440	0.0187	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003		56.1322	56.1322	1.0800e-003	1.0300e-003	56.4658
Mobile	0.1630	0.8105	2.1846	7.5500e-003	0.6282	6.5700e-003	0.6348	0.1681	6.1400e-003	0.1743		768.3229	768.3229	0.0417		769.3663
Total	**0.4804**	**0.8669**	**3.2782**	**7.8900e-003**	**0.6282**	**0.0161**	**0.6442**	**0.1681**	**0.0156**	**0.1837**	**0.0000**	**826.3863**	**826.3863**	**0.0447**	**1.0300e-003**	**827.8101**

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	0.2922	0.0124	1.0749	6.0000e-005		5.9200e-003	5.9200e-003		5.9200e-003	5.9200e-003	0.0000	1.9312	1.9312	1.8700e-003	0.0000	1.9780
Energy	5.1500e-003	0.0440	0.0187	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003		56.1322	56.1322	1.0800e-003	1.0300e-003	56.4658
Mobile	0.1476	0.7063	1.8143	6.0700e-003	0.4986	5.3300e-003	0.5039	0.1334	4.9800e-003	0.1384		617.7322	617.7322	0.0345		618.5948
Total	**0.4449**	**0.7626**	**2.9078**	**6.4100e-003**	**0.4986**	**0.0148**	**0.5134**	**0.1334**	**0.0145**	**0.1479**	**0.0000**	**675.7956**	**675.7956**	**0.0375**	**1.0300e-003**	**677.0385**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**7.38**	**12.03**	**11.30**	**18.76**	**20.63**	**7.73**	**20.31**	**20.63**	**7.43**	**19.51**	**0.00**	**18.22**	**18.22**	**16.20**	**0.00**	**18.21**

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	3/2/2020	3/13/2020	5	10	
2	Site Preparation	Site Preparation	3/14/2020	3/16/2020	5	1	
3	Grading	Grading	3/17/2020	3/18/2020	5	2	
4	Building Construction	Building Construction	3/19/2020	8/5/2020	5	100	
5	Paving	Paving	8/6/2020	8/12/2020	5	5	
6	Architectural Coating	Architectural Coating	8/13/2020	8/19/2020	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 26,325; Residential Outdoor: 8,775; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Artesia HO-O Zone Implementation - Area E - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	0.10	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	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
Architectural Coating	1	2.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	9.00	1.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	10.00	0.00	9.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.1857	0.0000	0.1857	0.0281	0.0000	0.0281			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457		1,147.2352	1,147.2352	0.2169		1,152.6578
Total	**0.8674**	**7.8729**	**7.6226**	**0.0120**	**0.1857**	**0.4672**	**0.6529**	**0.0281**	**0.4457**	**0.4738**		**1,147.2352**	**1,147.2352**	**0.2169**		**1,152.6578**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.0500e-003	0.2621	0.0609	7.0000e-004	0.0157	8.4000e-004	0.0166	4.3100e-003	8.0000e-004	5.1200e-003		75.6985	75.6985	5.4300e-003		75.8343
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	0.0511	0.0363	0.4010	1.1100e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		110.7420	110.7420	3.4900e-003		110.8293
Total	**0.0592**	**0.2984**	**0.4620**	**1.8100e-003**	**0.1275**	**1.7700e-003**	**0.1293**	**0.0340**	**1.6600e-003**	**0.0356**		**186.4405**	**186.4405**	**8.9200e-003**		**186.6636**

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					0.1857	0.0000	0.1857	0.0281	0.0000	0.0281			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578
Total	**0.8674**	**7.8729**	**7.6226**	**0.0120**	**0.1857**	**0.4672**	**0.6529**	**0.0281**	**0.4457**	**0.4738**	**0.0000**	**1,147.2352**	**1,147.2352**	**0.2169**		**1,152.6578**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	8.0500e-003	0.2621	0.0609	7.0000e-004	0.0157	8.4000e-004	0.0166	4.3100e-003	8.0000e-004	5.1200e-003		75.6985	75.6985	5.4300e-003		75.8343
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	0.0511	0.0363	0.4010	1.1100e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		110.7420	110.7420	3.4900e-003		110.8293
Total	**0.0592**	**0.2984**	**0.4620**	**1.8100e-003**	**0.1275**	**1.7700e-003**	**0.1293**	**0.0340**	**1.6600e-003**	**0.0356**		**186.4405**	**186.4405**	**8.9200e-003**		**186.6636**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.6853	8.4307	4.0942	9.7400e-003		0.3353	0.3353		0.3085	0.3085		943.4872	943.4872	0.3051		951.1158
Total	**0.6853**	**8.4307**	**4.0942**	**9.7400e-003**	**0.5303**	**0.3353**	**0.8656**	**0.0573**	**0.3085**	**0.3658**		**943.4872**	**943.4872**	**0.3051**		**951.1158**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0256	0.0181	0.2005	5.6000e-004	0.0559	4.7000e-004	0.0564	0.0148	4.3000e-004	0.0153		55.3710	55.3710	1.7500e-003		55.4147
Total	**0.0256**	**0.0181**	**0.2005**	**5.6000e-004**	**0.0559**	**4.7000e-004**	**0.0564**	**0.0148**	**4.3000e-004**	**0.0153**		**55.3710**	**55.3710**	**1.7500e-003**		**55.4147**

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					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.6853	8.4307	4.0942	9.7400e-003		0.3353	0.3353		0.3085	0.3085	0.0000	943.4872	943.4872	0.3051		951.1158
Total	**0.6853**	**8.4307**	**4.0942**	**9.7400e-003**	**0.5303**	**0.3353**	**0.8656**	**0.0573**	**0.3085**	**0.3658**	**0.0000**	**943.4872**	**943.4872**	**0.3051**		**951.1158**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0256	0.0181	0.2005	5.6000e-004	0.0559	4.7000e-004	0.0564	0.0148	4.3000e-004	0.0153		55.3710	55.3710	1.7500e-003		55.4147
Total	**0.0256**	**0.0181**	**0.2005**	**5.6000e-004**	**0.0559**	**4.7000e-004**	**0.0564**	**0.0148**	**4.3000e-004**	**0.0153**		**55.3710**	**55.3710**	**1.7500e-003**		**55.4147**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457		1,147.2352	1,147.2352	0.2169		1,152.6578
Total	**0.8674**	**7.8729**	**7.6226**	**0.0120**	**0.7528**	**0.4672**	**1.2200**	**0.4138**	**0.4457**	**0.8595**		**1,147.2352**	**1,147.2352**	**0.2169**		**1,152.6578**

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0511	0.0363	0.4010	1.1100e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		110.7420	110.7420	3.4900e-003		110.8293
Total	**0.0511**	**0.0363**	**0.4010**	**1.1100e-003**	**0.1118**	**9.3000e-004**	**0.1127**	**0.0296**	**8.6000e-004**	**0.0305**		**110.7420**	**110.7420**	**3.4900e-003**		**110.8293**

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					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578
Total	**0.8674**	**7.8729**	**7.6226**	**0.0120**	**0.7528**	**0.4672**	**1.2200**	**0.4138**	**0.4457**	**0.8595**	**0.0000**	**1,147.2352**	**1,147.2352**	**0.2169**		**1,152.6578**

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0511	0.0363	0.4010	1.1100e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		110.7420	110.7420	3.4900e-003		110.8293
Total	**0.0511**	**0.0363**	**0.4010**	**1.1100e-003**	**0.1118**	**9.3000e-004**	**0.1127**	**0.0296**	**8.6000e-004**	**0.0305**		**110.7420**	**110.7420**	**3.4900e-003**		**110.8293**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6407	6.2239	6.3562	8.5700e-003		0.4140	0.4140		0.3809	0.3809		830.5681	830.5681	0.2686		837.2837
Total	**0.6407**	**6.2239**	**6.3562**	**8.5700e-003**		**0.4140**	**0.4140**		**0.3809**	**0.3809**		**830.5681**	**830.5681**	**0.2686**		**837.2837**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	3.7200e-003	0.1064	0.0307	2.5000e-004	6.4000e-003	5.1000e-004	6.9100e-003	1.8400e-003	4.9000e-004	2.3300e-003		26.9449	26.9449	1.8000e-003		26.9900
Worker	0.0460	0.0326	0.3609	1.0000e-003	0.1006	8.4000e-004	0.1014	0.0267	7.7000e-004	0.0275		99.6678	99.6678	3.1400e-003		99.7464
Total	**0.0497**	**0.1390**	**0.3917**	**1.2500e-003**	**0.1070**	**1.3500e-003**	**0.1084**	**0.0285**	**1.2600e-003**	**0.0298**		**126.6127**	**126.6127**	**4.9400e-003**		**126.7363**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6407	6.2239	6.3562	8.5700e-003		0.4140	0.4140		0.3809	0.3809	0.0000	830.5681	830.5681	0.2686		837.2837
Total	**0.6407**	**6.2239**	**6.3562**	**8.5700e-003**		**0.4140**	**0.4140**		**0.3809**	**0.3809**	**0.0000**	**830.5681**	**830.5681**	**0.2686**		**837.2837**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	3.7200e-003	0.1064	0.0307	2.5000e-004	6.4000e-003	5.1000e-004	6.9100e-003	1.8400e-003	4.9000e-004	2.3300e-003		26.9449	26.9449	1.8000e-003		26.9900
Worker	0.0460	0.0326	0.3609	1.0000e-003	0.1006	8.4000e-004	0.1014	0.0267	7.7000e-004	0.0275		99.6678	99.6678	3.1400e-003		99.7464
Total	**0.0497**	**0.1390**	**0.3917**	**1.2500e-003**	**0.1070**	**1.3500e-003**	**0.1084**	**0.0285**	**1.2600e-003**	**0.0298**		**126.6127**	**126.6127**	**4.9400e-003**		**126.7363**

3.6 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669		1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.7716**	**7.2266**	**7.1128**	**0.0113**		**0.3950**	**0.3950**		**0.3669**	**0.3669**		**1,035.3926**	**1,035.3926**	**0.3016**		**1,042.9323**

3.6 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0652	0.7218	2.0000e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		199.3357	199.3357	6.2800e-003		199.4927
Total	**0.0920**	**0.0652**	**0.7218**	**2.0000e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**199.3357**	**199.3357**	**6.2800e-003**		**199.4927**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669	0.0000	1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.7716**	**7.2266**	**7.1128**	**0.0113**		**0.3950**	**0.3950**		**0.3669**	**0.3669**	**0.0000**	**1,035.3926**	**1,035.3926**	**0.3016**		**1,042.9323**

3.6 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0920	0.0652	0.7218	2.0000e-003	0.2012	1.6800e-003	0.2029	0.0534	1.5500e-003	0.0549		199.3357	199.3357	6.2800e-003		199.4927
Total	**0.0920**	**0.0652**	**0.7218**	**2.0000e-003**	**0.2012**	**1.6800e-003**	**0.2029**	**0.0534**	**1.5500e-003**	**0.0549**		**199.3357**	**199.3357**	**6.2800e-003**		**199.4927**

3.7 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	16.2689					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	**16.5110**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**		**281.4481**	**281.4481**	**0.0218**		**281.9928**

3.7 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0102	7.2500e-003	0.0802	2.2000e-004	0.0224	1.9000e-004	0.0225	5.9300e-003	1.7000e-004	6.1000e-003		22.1484	22.1484	7.0000e-004		22.1659
Total	**0.0102**	**7.2500e-003**	**0.0802**	**2.2000e-004**	**0.0224**	**1.9000e-004**	**0.0225**	**5.9300e-003**	**1.7000e-004**	**6.1000e-003**		**22.1484**	**22.1484**	**7.0000e-004**		**22.1659**

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	16.2689					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	**16.5110**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**	**0.0000**	**281.4481**	**281.4481**	**0.0218**		**281.9928**

3.7 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0102	7.2500e-003	0.0802	2.2000e-004	0.0224	1.9000e-004	0.0225	5.9300e-003	1.7000e-004	6.1000e-003		22.1484	22.1484	7.0000e-004		22.1659
Total	**0.0102**	**7.2500e-003**	**0.0802**	**2.2000e-004**	**0.0224**	**1.9000e-004**	**0.0225**	**5.9300e-003**	**1.7000e-004**	**6.1000e-003**		**22.1484**	**22.1484**	**7.0000e-004**		**22.1659**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1476	0.7063	1.8143	6.0700e-003	0.4986	5.3300e-003	0.5039	0.1334	4.9800e-003	0.1384		617.7322	617.7322	0.0345		618.5948
Unmitigated	0.1630	0.8105	2.1846	7.5500e-003	0.6282	6.5700e-003	0.6348	0.1681	6.1400e-003	0.1743		768.3229	768.3229	0.0417		769.3663

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	86.45	83.07	76.18	288,749	229,176
Total	86.45	83.07	76.18	288,749	229,176

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	5.1500e-003	0.0440	0.0187	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003		56.1322	56.1322	1.0800e-003	1.0300e-003	56.4658
NaturalGas Unmitigated	5.1500e-003	0.0440	0.0187	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003		56.1322	56.1322	1.0800e-003	1.0300e-003	56.4658

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	477.124	5.1500e-003	0.0440	0.0187	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003		56.1322	56.1322	1.0800e-003	1.0300e-003	56.4658
Total		**5.1500e-003**	**0.0440**	**0.0187**	**2.8000e-004**		**3.5600e-003**	**3.5600e-003**		**3.5600e-003**	**3.5600e-003**		**56.1322**	**56.1322**	**1.0800e-003**	**1.0300e-003**	**56.4658**

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 Mid Rise	0.477124	5.1500e-003	0.0440	0.0187	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003		56.1322	56.1322	1.0800e-003	1.0300e-003	56.4658
Total		**5.1500e-003**	**0.0440**	**0.0187**	**2.8000e-004**		**3.5600e-003**	**3.5600e-003**		**3.5600e-003**	**3.5600e-003**		**56.1322**	**56.1322**	**1.0800e-003**	**1.0300e-003**	**56.4658**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2922	0.0124	1.0749	6.0000e-005		5.9200e-003	5.9200e-003		5.9200e-003	5.9200e-003	0.0000	1.9312	1.9312	1.8700e-003	0.0000	1.9780
Unmitigated	0.3123	0.0124	1.0749	6.0000e-005		5.9200e-003	5.9200e-003		5.9200e-003	5.9200e-003	0.0000	1.9312	1.9312	1.8700e-003	0.0000	1.9780

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	0.0223					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0326	0.0124	1.0749	6.0000e-005		5.9200e-003	5.9200e-003		5.9200e-003	5.9200e-003		1.9312	1.9312	1.8700e-003		1.9780
Total	**0.3123**	**0.0124**	**1.0749**	**6.0000e-005**		**5.9200e-003**	**5.9200e-003**		**5.9200e-003**	**5.9200e-003**	**0.0000**	**1.9312**	**1.9312**	**1.8700e-003**	**0.0000**	**1.9780**

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	2.2300e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0326	0.0124	1.0749	6.0000e-005		5.9200e-003	5.9200e-003		5.9200e-003	5.9200e-003		1.9312	1.9312	1.8700e-003		1.9780
Total	**0.2922**	**0.0124**	**1.0749**	**6.0000e-005**		**5.9200e-003**	**5.9200e-003**		**5.9200e-003**	**5.9200e-003**	**0.0000**	**1.9312**	**1.9312**	**1.8700e-003**	**0.0000**	**1.9780**

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

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Artesia HO-O Zone Implementation - Area E

Los Angeles-South Coast County, Mitigation Report

Construction Mitigation Summary

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

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	4	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	2	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	2	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Rollers	Diesel	No Change	0	1	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	8	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Air Compressors	6.10000E-004	4.21000E-003	4.58000E-003	1.00000E-005	2.80000E-004	2.80000E-004	0.00000E+000	6.38310E-001	6.38310E-001	5.00000E-005	0.00000E+000	6.39550E-001
Cement and Mortar Mixers	4.40000E-004	2.76000E-003	2.31000E-003	1.00000E-005	1.10000E-004	1.10000E-004	0.00000E+000	3.43710E-001	3.43710E-001	4.00000E-005	0.00000E+000	3.44600E-001
Concrete/Industrial Saws	2.51000E-003	1.97900E-002	2.21200E-002	4.00000E-005	1.19000E-003	1.19000E-003	0.00000E+000	3.22594E+000	3.22594E+000	2.00000E-004	0.00000E+000	3.23105E+000
Cranes	2.80000E-004	3.37000E-003	1.32000E-003	0.00000E+000	1.40000E-004	1.30000E-004	0.00000E+000	3.16830E-001	3.16830E-001	1.00000E-004	0.00000E+000	3.19390E-001
Forklifts	1.08000E-002	9.73100E-002	8.85200E-002	1.10000E-004	7.25000E-003	6.67000E-003	0.00000E+000	1.00719E+001	1.00719E+001	3.26000E-003	0.00000E+000	1.01533E+001
Graders	2.40000E-004	3.16000E-003	9.10000E-004	0.00000E+000	1.00000E-004	9.00000E-005	0.00000E+000	2.91530E-001	2.91530E-001	9.00000E-005	0.00000E+000	2.93890E-001
Pavers	5.70000E-004	6.15000E-003	6.34000E-003	1.00000E-005	3.00000E-004	2.70000E-004	0.00000E+000	9.03470E-001	9.03470E-001	2.90000E-004	0.00000E+000	9.10780E-001
Rollers	4.60000E-004	4.55000E-003	4.14000E-003	1.00000E-005	2.90000E-004	2.70000E-004	0.00000E+000	5.04190E-001	5.04190E-001	1.60000E-004	0.00000E+000	5.08260E-001
Rubber Tired Dozers	8.10000E-004	8.50000E-003	3.10000E-003	1.00000E-005	4.20000E-004	3.80000E-004	0.00000E+000	5.62910E-001	5.62910E-001	1.80000E-004	0.00000E+000	5.67470E-001
Tractors/Loaders/Backhoes	2.34000E-002	2.35120E-001	2.54610E-001	3.50000E-004	1.48700E-002	1.36800E-002	0.00000E+000	3.04742E+001	3.04742E+001	9.86000E-003	0.00000E+000	3.07206E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Mitigated tons/yr						Mitigated mt/yr					
Air Compressors	6.10000E-004	4.21000E-003	4.58000E-003	1.00000E-005	2.80000E-004	2.80000E-004	0.00000E+000	6.38310E-001	6.38310E-001	5.00000E-005	0.00000E+000	6.39550E-001
Cement and Mortar Mixers	4.40000E-004	2.76000E-003	2.31000E-003	1.00000E-005	1.10000E-004	1.10000E-004	0.00000E+000	3.43710E-001	3.43710E-001	4.00000E-005	0.00000E+000	3.44600E-001
Concrete/Industrial Saws	2.51000E-003	1.97900E-002	2.21200E-002	4.00000E-005	1.19000E-003	1.19000E-003	0.00000E+000	3.22593E+000	3.22593E+000	2.00000E-004	0.00000E+000	3.23104E+000
Cranes	2.80000E-004	3.37000E-003	1.32000E-003	0.00000E+000	1.40000E-004	1.30000E-004	0.00000E+000	3.16830E-001	3.16830E-001	1.00000E-004	0.00000E+000	3.19390E-001
Forklifts	1.08000E-002	9.73100E-002	8.85200E-002	1.10000E-004	7.25000E-003	6.67000E-003	0.00000E+000	1.00718E+001	1.00718E+001	3.26000E-003	0.00000E+000	1.01533E+001
Graders	2.40000E-004	3.16000E-003	9.10000E-004	0.00000E+000	1.00000E-004	9.00000E-005	0.00000E+000	2.91530E-001	2.91530E-001	9.00000E-005	0.00000E+000	2.93890E-001
Pavers	5.70000E-004	6.15000E-003	6.34000E-003	1.00000E-005	3.00000E-004	2.70000E-004	0.00000E+000	9.03470E-001	9.03470E-001	2.90000E-004	0.00000E+000	9.10780E-001
Rollers	4.60000E-004	4.55000E-003	4.14000E-003	1.00000E-005	2.90000E-004	2.70000E-004	0.00000E+000	5.04190E-001	5.04190E-001	1.60000E-004	0.00000E+000	5.08260E-001
Rubber Tired Dozers	8.10000E-004	8.50000E-003	3.10000E-003	1.00000E-005	4.20000E-004	3.80000E-004	0.00000E+000	5.62910E-001	5.62910E-001	1.80000E-004	0.00000E+000	5.67470E-001
Tractors/Loaders/Backhoes	2.34000E-002	2.35120E-001	2.54610E-001	3.50000E-004	1.48700E-002	1.36800E-002	0.00000E+000	3.04742E+001	3.04742E+001	9.86000E-003	0.00000E+000	3.07206E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	3.09987E-006	3.09987E-006	0.00000E+000	0.00000E+000	3.09497E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.92866E-007	9.92866E-007	0.00000E+000	0.00000E+000	9.84903E-007
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.84439E-007	9.84439E-007	0.00000E+000	0.00000E+000	9.76543E-007

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input		Mitigation Input		Mitigation Input	
No	Soil Stabilizer for unpaved Roads	PM10 Reduction		PM2.5 Reduction			
No	Replace Ground Cover of Area Disturbed	PM10 Reduction		PM2.5 Reduction			
No	Water Exposed Area	PM10 Reduction		PM2.5 Reduction		Frequency (per day)	
No	Unpaved Road Mitigation	Moisture Content %		Vehicle Speed (mph)			
No	Clean Paved Road	% PM Reduction	0.00				

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.01	0.00	0.01	0.00	0.00	0.00
Demolition	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Grading	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	89.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.43	25.43	24.64	21.43	25.43
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	9.74	12.89	17.16	19.12	18.97	19.27	0.00	19.56	19.56	17.44	0.00	19.55
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	15.14	15.37	19.95	20.00	15.99
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting: Urban

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
Yes	Land Use	Increase Density	0.00	30.00		
No	Land Use	Increase Diversity	-0.01	0.13		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.21			

No	Neighborhood Enhancements	Improve Pedestrian Network				
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.21			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"	7.70			
No	Commute	Workplace Parking Charge				
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00		2.00	
No	Commute	Provide Ride Sharing Program	15.00			
	Commute	Commute Subtotal	0.00			

No	School Trip	Implement School Bus Program	0.00			
		Total VMT Reduction	0.21			

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
Yes	No Hearth	
No	Use Low VOC Cleaning Supplies	
Yes	Use Low VOC Paint (Residential Interior)	5.00
Yes	Use Low VOC Paint (Residential Exterior)	5.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
Yes	On-site Renewable		25.43

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

Water Mitigation Measures

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

Solid Waste Mitigation

Mitigation Measures	Input Value

Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

Artesia HO-O Zone Implementation - Area F

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	76.00	Dwelling Unit	2.54	76,000.00	217

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction hypothesized to start in March 2020 for model purposes.
Project modeled to be operational in 2021.

Land Use - Combined Group F lot area.
Dimensions - L.A. Co. Assessor.

Construction Phase - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment - Cranes anticipated to be used approx 14 days over 220-day consruction period.
14 days/220 days = 0.1 = fractional crane use over whole period.

Off-road Equipment - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment - Defaults used.
Grading - Assumes no cut/fill. Terrain is flat.

Demolition - Extg bldg square footage obtained from L.A. Co. Assessor.

Trips and VMT - Defaults used.

On-road Fugitive Dust -

Architectural Coating -

Woodstoves - No fireplaces/wood stoves.

Consumer Products - Defaults used.

Area Coating - Defaults used.

Energy Use - Defaults used.

Water And Wastewater - Defaults used.

Solid Waste - Defaults used.

Land Use Change - No natural vegetation changes - area previously developed, urban.

Sequestration - Assume 1/4 tree per unit.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Density overall increased from ~ 15/acre to 30/acre.

Area Mitigation - Zero VOC coatings indicated to be 5 g/l or less - used Dunn-Edwards "Everest" zero-VOC paint as example.

Energy Mitigation - Required PV installation per 2018 Title 24 Multifamily Residential on-site solar provision.
See Cal. Energy Comm, Residential Compliance Manual, December 2018, p. 7-1 for calculating PV system size.

Water Mitigation - defaults used; assume Ti. 24 compliance for low-flow fixtures.

Waste Mitigation - Defaults used.

Artesia HO-O Zone Implementation - Area F - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	5
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	5
tblFireplaces	NumberGas	64.60	0.00
tblFireplaces	NumberNoFireplace	7.60	76.00
tblFireplaces	NumberWood	3.80	0.00
tblLandUse	LotAcreage	2.00	2.54
tblOffRoadEquipment	UsageHours	8.00	0.10
tblSequestration	NumberOfNewTrees	0.00	19.00
tblWoodstoves	NumberCatalytic	3.80	0.00
tblWoodstoves	NumberNoncatalytic	3.80	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.2330	1.5913	1.6622	3.0700e-003	0.1136	0.0859	0.1994	0.0319	0.0827	0.1145	0.0000	262.5341	262.5341	0.0364	0.0000	263.4452
2021	0.2732	0.2445	0.2964	5.3000e-004	0.0112	0.0128	0.0241	3.0000e-003	0.0123	0.0153	0.0000	45.0703	45.0703	6.7000e-003	0.0000	45.2379
Maximum	**0.2732**	**1.5913**	**1.6622**	**3.0700e-003**	**0.1136**	**0.0859**	**0.1994**	**0.0319**	**0.0827**	**0.1145**	**0.0000**	**262.5341**	**262.5341**	**0.0364**	**0.0000**	**263.4452**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.2330	1.5913	1.6622	3.0700e-003	0.0874	0.0859	0.1733	0.0241	0.0827	0.1067	0.0000	262.5339	262.5339	0.0364	0.0000	263.4450
2021	0.2732	0.2445	0.2964	5.3000e-004	0.0112	0.0128	0.0241	3.0000e-003	0.0123	0.0153	0.0000	45.0703	45.0703	6.7000e-003	0.0000	45.2379
Maximum	**0.2732**	**1.5913**	**1.6622**	**3.0700e-003**	**0.0874**	**0.0859**	**0.1733**	**0.0241**	**0.0827**	**0.1067**	**0.0000**	**262.5339**	**262.5339**	**0.0364**	**0.0000**	**263.4450**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**20.98**	**0.00**	**11.71**	**22.45**	**0.00**	**6.03**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-2-2020	6-1-2020	0.6424	0.6424
2	6-2-2020	9-1-2020	0.5015	0.5015
3	9-2-2020	12-1-2020	0.4971	0.4971
4	12-2-2020	3-1-2021	0.5055	0.5055
5	3-2-2021	6-1-2021	0.1764	0.1764
		Highest	0.6424	0.6424

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	0.3222	9.0700e-003	0.7855	4.0000e-005		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	1.2803	1.2803	1.2400e-003	0.0000	1.3113
Energy	5.4900e-003	0.0469	0.0200	3.0000e-004		3.7900e-003	3.7900e-003		3.7900e-003	3.7900e-003	0.0000	152.3575	152.3575	5.0900e-003	1.8300e-003	153.0311
Mobile	0.1657	0.8588	2.3051	7.9700e-003	0.6407	6.8100e-003	0.6475	0.1717	6.3600e-003	0.1781	0.0000	735.0456	735.0456	0.0392	0.0000	736.0267
Waste						0.0000	0.0000		0.0000	0.0000	7.0966	0.0000	7.0966	0.4194	0.0000	17.5814
Water						0.0000	0.0000		0.0000	0.0000	1.5710	31.5940	33.1650	0.1627	4.0800e-003	38.4471
Total	**0.4934**	**0.9148**	**3.1106**	**8.3100e-003**	**0.6407**	**0.0149**	**0.6556**	**0.1717**	**0.0145**	**0.1862**	**8.6675**	**920.2775**	**928.9450**	**0.6276**	**5.9100e-003**	**946.3977**

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	0.3008	9.0700e-003	0.7855	4.0000e-005		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	1.2803	1.2803	1.2400e-003	0.0000	1.3113
Energy	5.4900e-003	0.0469	0.0200	3.0000e-004		3.7900e-003	3.7900e-003		3.7900e-003	3.7900e-003	0.0000	152.3102	152.3102	5.0900e-003	1.8300e-003	152.9836
Mobile	0.1495	0.7481	1.9096	6.4100e-003	0.5085	5.5200e-003	0.5140	0.1363	5.1500e-003	0.1415	0.0000	591.3020	591.3020	0.0324	0.0000	592.1114
Waste						0.0000	0.0000		0.0000	0.0000	7.0966	0.0000	7.0966	0.4194	0.0000	17.5814
Water						0.0000	0.0000		0.0000	0.0000	1.2568	26.8113	28.0680	0.1302	3.2800e-003	32.2992
Total	**0.4558**	**0.8041**	**2.7150**	**6.7500e-003**	**0.5085**	**0.0136**	**0.5221**	**0.1363**	**0.0133**	**0.1496**	**8.3533**	**771.7037**	**780.0570**	**0.5883**	**5.1100e-003**	**796.2869**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**7.61**	**12.10**	**12.72**	**18.77**	**20.63**	**8.64**	**20.36**	**20.63**	**8.36**	**19.68**	**3.62**	**16.14**	**16.03**	**6.27**	**13.54**	**15.86**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	13.4520
Total	**13.4520**

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	3/2/2020	3/27/2020	5	20	
2	Site Preparation	Site Preparation	3/28/2020	4/1/2020	5	3	
3	Grading	Grading	4/2/2020	4/9/2020	5	6	
4	Building Construction	Building Construction	4/10/2020	2/11/2021	5	220	
5	Paving	Paving	2/12/2021	2/25/2021	5	10	
6	Architectural Coating	Architectural Coating	2/26/2021	3/11/2021	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 153,900; Residential Outdoor: 51,300; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	0.10	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Scrapers	1	8.00	367	0.48
Building Construction	Welders	3	8.00	46	0.45

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
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	55.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	236.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	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

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0256	0.0000	0.0256	3.8700e-003	0.0000	3.8700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0213	0.2095	0.1466	2.4000e-004		0.0115	0.0115		0.0108	0.0108	0.0000	21.0677	21.0677	5.4200e-003	0.0000	21.2031
Total	**0.0213**	**0.2095**	**0.1466**	**2.4000e-004**	**0.0256**	**0.0115**	**0.0371**	**3.8700e-003**	**0.0108**	**0.0146**	**0.0000**	**21.0677**	**21.0677**	**5.4200e-003**	**0.0000**	**21.2031**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0400e-003	0.0350	7.7200e-003	9.0000e-005	2.0300e-003	1.1000e-004	2.1400e-003	5.6000e-004	1.0000e-004	6.6000e-004	0.0000	9.0952	9.0952	6.3000e-004	0.0000	9.1111
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-004	4.8000e-004	5.3500e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.3278	1.3278	4.0000e-005	0.0000	1.3288
Total	**1.6400e-003**	**0.0355**	**0.0131**	**1.0000e-004**	**3.4500e-003**	**1.2000e-004**	**3.5800e-003**	**9.4000e-004**	**1.1000e-004**	**1.0500e-003**	**0.0000**	**10.4230**	**10.4230**	**6.7000e-004**	**0.0000**	**10.4399**

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					0.0115	0.0000	0.0115	1.7400e-003	0.0000	1.7400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0213	0.2095	0.1466	2.4000e-004		0.0115	0.0115		0.0108	0.0108	0.0000	21.0676	21.0676	5.4200e-003	0.0000	21.2030
Total	**0.0213**	**0.2095**	**0.1466**	**2.4000e-004**	**0.0115**	**0.0115**	**0.0230**	**1.7400e-003**	**0.0108**	**0.0125**	**0.0000**	**21.0676**	**21.0676**	**5.4200e-003**	**0.0000**	**21.2030**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0400e-003	0.0350	7.7200e-003	9.0000e-005	2.0300e-003	1.1000e-004	2.1400e-003	5.6000e-004	1.0000e-004	6.6000e-004	0.0000	9.0952	9.0952	6.3000e-004	0.0000	9.1111
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-004	4.8000e-004	5.3500e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.3278	1.3278	4.0000e-005	0.0000	1.3288
Total	**1.6400e-003**	**0.0355**	**0.0131**	**1.0000e-004**	**3.4500e-003**	**1.2000e-004**	**3.5800e-003**	**9.4000e-004**	**1.1000e-004**	**1.0500e-003**	**0.0000**	**10.4230**	**10.4230**	**6.7000e-004**	**0.0000**	**10.4399**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.3900e-003	0.0000	2.3900e-003	2.6000e-004	0.0000	2.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4800e-003	0.0299	0.0169	4.0000e-005		1.1700e-003	1.1700e-003		1.0700e-003	1.0700e-003	0.0000	3.2290	3.2290	1.0400e-003	0.0000	3.2551
Total	**2.4800e-003**	**0.0299**	**0.0169**	**4.0000e-005**	**2.3900e-003**	**1.1700e-003**	**3.5600e-003**	**2.6000e-004**	**1.0700e-003**	**1.3300e-003**	**0.0000**	**3.2290**	**3.2290**	**1.0400e-003**	**0.0000**	**3.2551**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	4.9000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.1226	0.1226	0.0000	0.0000	0.1227
Total	**6.0000e-005**	**4.0000e-005**	**4.9000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**3.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.1226**	**0.1226**	**0.0000**	**0.0000**	**0.1227**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0700e-003	0.0000	1.0700e-003	1.2000e-004	0.0000	1.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4800e-003	0.0299	0.0169	4.0000e-005		1.1700e-003	1.1700e-003		1.0700e-003	1.0700e-003	0.0000	3.2290	3.2290	1.0400e-003	0.0000	3.2551
Total	**2.4800e-003**	**0.0299**	**0.0169**	**4.0000e-005**	**1.0700e-003**	**1.1700e-003**	**2.2400e-003**	**1.2000e-004**	**1.0700e-003**	**1.1900e-003**	**0.0000**	**3.2290**	**3.2290**	**1.0400e-003**	**0.0000**	**3.2551**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	4.0000e-005	4.9000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.1226	0.1226	0.0000	0.0000	0.1227
Total	**6.0000e-005**	**4.0000e-005**	**4.9000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**3.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.1226**	**0.1226**	**0.0000**	**0.0000**	**0.1227**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0197	0.0000	0.0197	0.0101	0.0000	0.0101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7700e-003	0.0640	0.0298	6.0000e-005		2.9700e-003	2.9700e-003		2.7300e-003	2.7300e-003	0.0000	5.4333	5.4333	1.7600e-003	0.0000	5.4773
Total	**5.7700e-003**	**0.0640**	**0.0298**	**6.0000e-005**	**0.0197**	**2.9700e-003**	**0.0226**	**0.0101**	**2.7300e-003**	**0.0128**	**0.0000**	**5.4333**	**5.4333**	**1.7600e-003**	**0.0000**	**5.4773**

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.1000e-004	1.2300e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3064	0.3064	1.0000e-005	0.0000	0.3067
Total	**1.4000e-004**	**1.1000e-004**	**1.2300e-003**	**0.0000**	**3.3000e-004**	**0.0000**	**3.3000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.3064**	**0.3064**	**1.0000e-005**	**0.0000**	**0.3067**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.8500e-003	0.0000	8.8500e-003	4.5500e-003	0.0000	4.5500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7700e-003	0.0640	0.0298	6.0000e-005		2.9700e-003	2.9700e-003		2.7300e-003	2.7300e-003	0.0000	5.4333	5.4333	1.7600e-003	0.0000	5.4773
Total	**5.7700e-003**	**0.0640**	**0.0298**	**6.0000e-005**	**8.8500e-003**	**2.9700e-003**	**0.0118**	**4.5500e-003**	**2.7300e-003**	**7.2800e-003**	**0.0000**	**5.4333**	**5.4333**	**1.7600e-003**	**0.0000**	**5.4773**

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.1000e-004	1.2300e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3064	0.3064	1.0000e-005	0.0000	0.3067
Total	**1.4000e-004**	**1.1000e-004**	**1.2300e-003**	**0.0000**	**3.3000e-004**	**0.0000**	**3.3000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.3064**	**0.3064**	**1.0000e-005**	**0.0000**	**0.3067**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1748	1.1504	1.2168	1.8400e-003		0.0692	0.0692		0.0672	0.0672	0.0000	149.7062	149.7062	0.0247	0.0000	150.3226
Total	**0.1748**	**1.1504**	**1.2168**	**1.8400e-003**		**0.0692**	**0.0692**		**0.0672**	**0.0672**	**0.0000**	**149.7062**	**149.7062**	**0.0247**	**0.0000**	**150.3226**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.7600e-003	0.0824	0.0223	1.9000e-004	4.7900e-003	3.8000e-004	5.1700e-003	1.3800e-003	3.7000e-004	1.7500e-003	0.0000	18.8804	18.8804	1.2000e-003	0.0000	18.9104
Worker	0.0241	0.0195	0.2151	5.9000e-004	0.0573	4.9000e-004	0.0577	0.0152	4.5000e-004	0.0157	0.0000	53.3656	53.3656	1.6800e-003	0.0000	53.4076
Total	**0.0269**	**0.1018**	**0.2374**	**7.8000e-004**	**0.0621**	**8.7000e-004**	**0.0629**	**0.0166**	**8.2000e-004**	**0.0174**	**0.0000**	**72.2460**	**72.2460**	**2.8800e-003**	**0.0000**	**72.3180**

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	0.1748	1.1504	1.2168	1.8400e-003		0.0692	0.0692		0.0672	0.0672	0.0000	149.7061	149.7061	0.0247	0.0000	150.3224
Total	**0.1748**	**1.1504**	**1.2168**	**1.8400e-003**		**0.0692**	**0.0692**		**0.0672**	**0.0672**	**0.0000**	**149.7061**	**149.7061**	**0.0247**	**0.0000**	**150.3224**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.7600e-003	0.0824	0.0223	1.9000e-004	4.7900e-003	3.8000e-004	5.1700e-003	1.3800e-003	3.7000e-004	1.7500e-003	0.0000	18.8804	18.8804	1.2000e-003	0.0000	18.9104
Worker	0.0241	0.0195	0.2151	5.9000e-004	0.0573	4.9000e-004	0.0577	0.0152	4.5000e-004	0.0157	0.0000	53.3656	53.3656	1.6800e-003	0.0000	53.4076
Total	**0.0269**	**0.1018**	**0.2374**	**7.8000e-004**	**0.0621**	**8.7000e-004**	**0.0629**	**0.0166**	**8.2000e-004**	**0.0174**	**0.0000**	**72.2460**	**72.2460**	**2.8800e-003**	**0.0000**	**72.3180**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0246	0.1686	0.1891	2.9000e-004		9.3400e-003	9.3400e-003		9.0600e-003	9.0600e-003	0.0000	23.6392	23.6392	3.7000e-003	0.0000	23.7317
Total	**0.0246**	**0.1686**	**0.1891**	**2.9000e-004**		**9.3400e-003**	**9.3400e-003**		**9.0600e-003**	**9.0600e-003**	**0.0000**	**23.6392**	**23.6392**	**3.7000e-003**	**0.0000**	**23.7317**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7000e-004	0.0118	3.2100e-003	3.0000e-005	7.6000e-004	2.0000e-005	7.8000e-004	2.2000e-004	2.0000e-005	2.4000e-004	0.0000	2.9580	2.9580	1.8000e-004	0.0000	2.9625
Worker	3.5500e-003	2.7600e-003	0.0312	9.0000e-005	9.0400e-003	7.0000e-005	9.1100e-003	2.4000e-003	7.0000e-005	2.4700e-003	0.0000	8.1586	8.1586	2.4000e-004	0.0000	8.1646
Total	**3.9200e-003**	**0.0146**	**0.0344**	**1.2000e-004**	**9.8000e-003**	**9.0000e-005**	**9.8900e-003**	**2.6200e-003**	**9.0000e-005**	**2.7100e-003**	**0.0000**	**11.1165**	**11.1165**	**4.2000e-004**	**0.0000**	**11.1271**

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	0.0246	0.1686	0.1891	2.9000e-004		9.3400e-003	9.3400e-003		9.0600e-003	9.0600e-003	0.0000	23.6391	23.6391	3.7000e-003	0.0000	23.7316
Total	**0.0246**	**0.1686**	**0.1891**	**2.9000e-004**		**9.3400e-003**	**9.3400e-003**		**9.0600e-003**	**9.0600e-003**	**0.0000**	**23.6391**	**23.6391**	**3.7000e-003**	**0.0000**	**23.7316**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.7000e-004	0.0118	3.2100e-003	3.0000e-005	7.6000e-004	2.0000e-005	7.8000e-004	2.2000e-004	2.0000e-005	2.4000e-004	0.0000	2.9580	2.9580	1.8000e-004	0.0000	2.9625
Worker	3.5500e-003	2.7600e-003	0.0312	9.0000e-005	9.0400e-003	7.0000e-005	9.1100e-003	2.4000e-003	7.0000e-005	2.4700e-003	0.0000	8.1586	8.1586	2.4000e-004	0.0000	8.1646
Total	**3.9200e-003**	**0.0146**	**0.0344**	**1.2000e-004**	**9.8000e-003**	**9.0000e-005**	**9.8900e-003**	**2.6200e-003**	**9.0000e-005**	**2.7100e-003**	**0.0000**	**11.1165**	**11.1165**	**4.2000e-004**	**0.0000**	**11.1271**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.3200e-003	0.0532	0.0589	9.0000e-005		2.9100e-003	2.9100e-003		2.6900e-003	2.6900e-003	0.0000	7.7524	7.7524	2.4600e-003	0.0000	7.8138
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.3200e-003**	**0.0532**	**0.0589**	**9.0000e-005**		**2.9100e-003**	**2.9100e-003**		**2.6900e-003**	**2.6900e-003**	**0.0000**	**7.7524**	**7.7524**	**2.4600e-003**	**0.0000**	**7.8138**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	2.5000e-004	2.8400e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7417	0.7417	2.0000e-005	0.0000	0.7422
Total	**3.2000e-004**	**2.5000e-004**	**2.8400e-003**	**1.0000e-005**	**8.2000e-004**	**1.0000e-005**	**8.3000e-004**	**2.2000e-004**	**1.0000e-005**	**2.2000e-004**	**0.0000**	**0.7417**	**0.7417**	**2.0000e-005**	**0.0000**	**0.7422**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.3200e-003	0.0532	0.0589	9.0000e-005		2.9100e-003	2.9100e-003		2.6900e-003	2.6900e-003	0.0000	7.7524	7.7524	2.4600e-003	0.0000	7.8138
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.3200e-003**	**0.0532**	**0.0589**	**9.0000e-005**		**2.9100e-003**	**2.9100e-003**		**2.6900e-003**	**2.6900e-003**	**0.0000**	**7.7524**	**7.7524**	**2.4600e-003**	**0.0000**	**7.8138**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	2.5000e-004	2.8400e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7417	0.7417	2.0000e-005	0.0000	0.7422
Total	**3.2000e-004**	**2.5000e-004**	**2.8400e-003**	**1.0000e-005**	**8.2000e-004**	**1.0000e-005**	**8.3000e-004**	**2.2000e-004**	**1.0000e-005**	**2.2000e-004**	**0.0000**	**0.7417**	**0.7417**	**2.0000e-005**	**0.0000**	**0.7422**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2378					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0900e-003	7.6300e-003	9.0900e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.2766	1.2766	9.0000e-005	0.0000	1.2788
Total	**0.2389**	**7.6300e-003**	**9.0900e-003**	**1.0000e-005**		**4.7000e-004**	**4.7000e-004**		**4.7000e-004**	**4.7000e-004**	**0.0000**	**1.2766**	**1.2766**	**9.0000e-005**	**0.0000**	**1.2788**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.8000e-004	2.0800e-003	1.0000e-005	6.0000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5439	0.5439	2.0000e-005	0.0000	0.5443
Total	**2.4000e-004**	**1.8000e-004**	**2.0800e-003**	**1.0000e-005**	**6.0000e-004**	**0.0000**	**6.1000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.5439**	**0.5439**	**2.0000e-005**	**0.0000**	**0.5443**

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	0.2378					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0900e-003	7.6300e-003	9.0900e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	1.2766	1.2766	9.0000e-005	0.0000	1.2788
Total	**0.2389**	**7.6300e-003**	**9.0900e-003**	**1.0000e-005**		**4.7000e-004**	**4.7000e-004**		**4.7000e-004**	**4.7000e-004**	**0.0000**	**1.2766**	**1.2766**	**9.0000e-005**	**0.0000**	**1.2788**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.8000e-004	2.0800e-003	1.0000e-005	6.0000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5439	0.5439	2.0000e-005	0.0000	0.5443
Total	**2.4000e-004**	**1.8000e-004**	**2.0800e-003**	**1.0000e-005**	**6.0000e-004**	**0.0000**	**6.1000e-004**	**1.6000e-004**	**0.0000**	**1.6000e-004**	**0.0000**	**0.5439**	**0.5439**	**2.0000e-005**	**0.0000**	**0.5443**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1495	0.7481	1.9096	6.4100e-003	0.5085	5.5200e-003	0.5140	0.1363	5.1500e-003	0.1415	0.0000	591.3020	591.3020	0.0324	0.0000	592.1114
Unmitigated	0.1657	0.8588	2.3051	7.9700e-003	0.6407	6.8100e-003	0.6475	0.1717	6.3600e-003	0.1781	0.0000	735.0456	735.0456	0.0392	0.0000	736.0267

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	505.40	485.64	445.36	1,688,073	1,339,797
Total	505.40	485.64	445.36	1,688,073	1,339,797

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	97.9800	97.9800	4.0500e-003	8.4000e-004	98.3305
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	98.0274	98.0274	4.0500e-003	8.4000e-004	98.3781
NaturalGas Mitigated	5.4900e-003	0.0469	0.0200	3.0000e-004		3.7900e-003	3.7900e-003		3.7900e-003	3.7900e-003	0.0000	54.3302	54.3302	1.0400e-003	1.0000e-003	54.6530
NaturalGas Unmitigated	5.4900e-003	0.0469	0.0200	3.0000e-004		3.7900e-003	3.7900e-003		3.7900e-003	3.7900e-003	0.0000	54.3302	54.3302	1.0400e-003	1.0000e-003	54.6530

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.01811e+006	5.4900e-003	0.0469	0.0200	3.0000e-004		3.7900e-003	3.7900e-003		3.7900e-003	3.7900e-003	0.0000	54.3302	54.3302	1.0400e-003	1.0000e-003	54.6530
Total		**5.4900e-003**	**0.0469**	**0.0200**	**3.0000e-004**		**3.7900e-003**	**3.7900e-003**		**3.7900e-003**	**3.7900e-003**	**0.0000**	**54.3302**	**54.3302**	**1.0400e-003**	**1.0000e-003**	**54.6530**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.01811e+006	5.4900e-003	0.0469	0.0200	3.0000e-004		3.7900e-003	3.7900e-003		3.7900e-003	3.7900e-003	0.0000	54.3302	54.3302	1.0400e-003	1.0000e-003	54.6530
Total		**5.4900e-003**	**0.0469**	**0.0200**	**3.0000e-004**		**3.7900e-003**	**3.7900e-003**		**3.7900e-003**	**3.7900e-003**	**0.0000**	**54.3302**	**54.3302**	**1.0400e-003**	**1.0000e-003**	**54.6530**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	307661	98.0274	4.0500e-003	8.4000e-004	98.3781
Total		**98.0274**	**4.0500e-003**	**8.4000e-004**	**98.3781**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	307512	97.9800	4.0500e-003	8.4000e-004	98.3305
Total		**97.9800**	**4.0500e-003**	**8.4000e-004**	**98.3305**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3008	9.0700e-003	0.7855	4.0000e-005		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	1.2803	1.2803	1.2400e-003	0.0000	1.3113
Unmitigated	0.3222	9.0700e-003	0.7855	4.0000e-005		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	1.2803	1.2803	1.2400e-003	0.0000	1.3113

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	0.0238					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2746					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0238	9.0700e-003	0.7855	4.0000e-005		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	1.2803	1.2803	1.2400e-003	0.0000	1.3113
Total	**0.3222**	**9.0700e-003**	**0.7855**	**4.0000e-005**		**4.3300e-003**	**4.3300e-003**		**4.3300e-003**	**4.3300e-003**	**0.0000**	**1.2803**	**1.2803**	**1.2400e-003**	**0.0000**	**1.3113**

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	2.3800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2746					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0238	9.0700e-003	0.7855	4.0000e-005		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	1.2803	1.2803	1.2400e-003	0.0000	1.3113
Total	**0.3008**	**9.0700e-003**	**0.7855**	**4.0000e-005**		**4.3300e-003**	**4.3300e-003**		**4.3300e-003**	**4.3300e-003**	**0.0000**	**1.2803**	**1.2803**	**1.2400e-003**	**0.0000**	**1.3113**

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	28.0680	0.1302	3.2800e-003	32.2992
Unmitigated	33.1650	0.1627	4.0800e-003	38.4471

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	4.95171 / 3.12173	33.1650	0.1627	4.0800e-003	38.4471
Total		**33.1650**	**0.1627**	**4.0800e-003**	**38.4471**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	3.96136 / 2.9313	28.0680	0.1302	3.2800e-003	32.2992
Total		**28.0680**	**0.1302**	**3.2800e-003**	**32.2992**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	7.0966	0.4194	0.0000	17.5814
Unmitigated	7.0966	0.4194	0.0000	17.5814

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	34.96	7.0966	0.4194	0.0000	17.5814
Total		**7.0966**	**0.4194**	**0.0000**	**17.5814**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	34.96	7.0966	0.4194	0.0000	17.5814
Total		**7.0966**	**0.4194**	**0.0000**	**17.5814**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	13.4520	0.0000	0.0000	13.4520

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	19	13.4520	0.0000	0.0000	13.4520
Total		**13.4520**	**0.0000**	**0.0000**	**13.4520**

Artesia HO-O Zone Implementation - Area F

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	76.00	Dwelling Unit	2.54	76,000.00	217

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction hypothesized to start in March 2020 for model purposes.
Project modeled to be operational in 2021.

Land Use - Combined Group F lot area.
Dimensions - L.A. Co. Assessor.

Construction Phase - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment - Cranes anticipated to be used approx 14 days over 220-day consruction period.
14 days/220 days = 0.1 = fractional crane use over whole period.

Off-road Equipment - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment - Defaults used.
Grading - Assumes no cut/fill. Terrain is flat.

Demolition - Extg bldg square footage obtained from L.A. Co. Assessor.

Trips and VMT - Defaults used.

On-road Fugitive Dust -

Architectural Coating -

Woodstoves - No fireplaces/wood stoves.

Consumer Products - Defaults used.

Area Coating - Defaults used.

Energy Use - Defaults used.

Water And Wastewater - Defaults used.

Solid Waste - Defaults used.

Land Use Change - No natural vegetation changes - area previously developed, urban.

Sequestration - Assume 1/4 tree per unit.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Density overall increased from ~ 15/acre to 30/acre.

Area Mitigation - Zero VOC coatings indicated to be 5 g/l or less - used Dunn-Edwards "Everest" zero-VOC paint as example.

Energy Mitigation - Required PV installation per 2018 Title 24 Multifamily Residential on-site solar provision.
See Cal. Energy Comm, Residential Compliance Manual, December 2018, p. 7-1 for calculating PV system size.

Water Mitigation - defaults used; assume Ti. 24 compliance for low-flow fixtures.

Waste Mitigation - Defaults used.

Artesia HO-O Zone Implementation - Area F - Los Angeles-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	5
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	5
tblFireplaces	NumberGas	64.60	0.00
tblFireplaces	NumberNoFireplace	7.60	76.00
tblFireplaces	NumberWood	3.80	0.00
tblLandUse	LotAcreage	2.00	2.54
tblOffRoadEquipment	UsageHours	8.00	0.10
tblSequestration	NumberOfNewTrees	0.00	19.00
tblWoodstoves	NumberCatalytic	3.80	0.00
tblWoodstoves	NumberNoncatalytic	3.80	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.2891	24.3818	15.9783	0.0350	6.6641	1.1645	7.6552	3.3971	1.0876	4.3089	0.0000	3,485.0889	3,485.0889	0.7704	0.0000	3,501.8515
2021	47.8212	12.1776	15.0232	0.0277	0.6660	0.6294	1.2954	0.1778	0.6103	0.7881	0.0000	2,583.4089	2,583.4089	0.5467	0.0000	2,590.9910
Maximum	**47.8212**	**24.3818**	**15.9783**	**0.0350**	**6.6641**	**1.1645**	**7.6552**	**3.3971**	**1.0876**	**4.3089**	**0.0000**	**3,485.0889**	**3,485.0889**	**0.7704**	**0.0000**	**3,501.8515**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.2891	24.3818	15.9783	0.0350	3.0603	1.1645	4.0514	1.5450	1.0876	2.4568	0.0000	3,485.0889	3,485.0889	0.7704	0.0000	3,501.8515
2021	47.8212	12.1776	15.0232	0.0277	0.6660	0.6294	1.2954	0.1778	0.6103	0.7881	0.0000	2,583.4089	2,583.4089	0.5467	0.0000	2,590.9910
Maximum	**47.8212**	**24.3818**	**15.9783**	**0.0350**	**3.0603**	**1.1645**	**4.0514**	**1.5450**	**1.0876**	**2.4568**	**0.0000**	**3,485.0889**	**3,485.0889**	**0.7704**	**0.0000**	**3,501.8515**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**49.16**	**0.00**	**40.26**	**51.81**	**0.00**	**36.34**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.8255	0.0725	6.2837	3.3000e-004		0.0346	0.0346		0.0346	0.0346	0.0000	11.2900	11.2900	0.0109	0.0000	11.5635
Energy	0.0301	0.2571	0.1094	1.6400e-003		0.0208	0.0208		0.0208	0.0208		328.1576	328.1576	6.2900e-003	6.0200e-003	330.1077
Mobile	0.9805	4.6166	13.4594	0.0464	3.6724	0.0382	3.7106	0.9828	0.0357	1.0185		4,720.1548	4,720.1548	0.2451		4,726.2821
Total	**2.8360**	**4.9462**	**19.8525**	**0.0484**	**3.6724**	**0.0937**	**3.7661**	**0.9828**	**0.0911**	**1.0740**	**0.0000**	**5,059.6023**	**5,059.6023**	**0.2623**	**6.0200e-003**	**5,067.9532**

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	1.7082	0.0725	6.2837	3.3000e-004		0.0346	0.0346		0.0346	0.0346	0.0000	11.2900	11.2900	0.0109	0.0000	11.5635
Energy	0.0301	0.2571	0.1094	1.6400e-003		0.0208	0.0208		0.0208	0.0208		328.1576	328.1576	6.2900e-003	6.0200e-003	330.1077
Mobile	0.8882	4.0410	11.0726	0.0373	2.9147	0.0310	2.9457	0.7801	0.0289	0.8090		3,797.3409	3,797.3409	0.2016		3,802.3818
Total	**2.6265**	**4.3706**	**17.4657**	**0.0393**	**2.9147**	**0.0864**	**3.0011**	**0.7801**	**0.0843**	**0.8644**	**0.0000**	**4,136.7885**	**4,136.7885**	**0.2189**	**6.0200e-003**	**4,144.0530**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**7.39**	**11.64**	**12.02**	**18.78**	**20.63**	**7.74**	**20.31**	**20.63**	**7.44**	**19.51**	**0.00**	**18.24**	**18.24**	**16.57**	**0.00**	**18.23**

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	3/2/2020	3/27/2020	5	20	
2	Site Preparation	Site Preparation	3/28/2020	4/1/2020	5	3	
3	Grading	Grading	4/2/2020	4/9/2020	5	6	
4	Building Construction	Building Construction	4/10/2020	2/11/2021	5	220	
5	Paving	Paving	2/12/2021	2/25/2021	5	10	
6	Architectural Coating	Architectural Coating	2/26/2021	3/11/2021	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 153,900; Residential Outdoor: 51,300; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Artesia HO-O Zone Implementation - Area F - Los Angeles-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	0.10	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Scrapers	1	8.00	367	0.48
Building Construction	Welders	3	8.00	46	0.45

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
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	55.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	236.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	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

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5557	0.0000	2.5557	0.3870	0.0000	0.3870			0.0000			0.0000
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761		2,322.3127	2,322.3127	0.5970		2,337.2363
Total	**2.1262**	**20.9463**	**14.6573**	**0.0241**	**2.5557**	**1.1525**	**3.7082**	**0.3870**	**1.0761**	**1.4631**		**2,322.3127**	**2,322.3127**	**0.5970**		**2,337.2363**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1031	3.3930	0.7519	9.3200e-003	0.2063	0.0108	0.2172	0.0566	0.0104	0.0669		1,009.8815	1,009.8815	0.0687		1,011.6000
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	0.0598	0.0426	0.5692	1.5400e-003	0.1453	1.2100e-003	0.1465	0.0385	1.1200e-003	0.0397		152.8947	152.8947	4.8200e-003		153.0152
Total	**0.1629**	**3.4355**	**1.3211**	**0.0109**	**0.3516**	**0.0120**	**0.3637**	**0.0951**	**0.0115**	**0.1066**		**1,162.7762**	**1,162.7762**	**0.0736**		**1,164.6152**

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					1.1501	0.0000	1.1501	0.1741	0.0000	0.1741			0.0000			0.0000
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761	0.0000	2,322.3127	2,322.3127	0.5970		2,337.2363
Total	**2.1262**	**20.9463**	**14.6573**	**0.0241**	**1.1501**	**1.1525**	**2.3025**	**0.1741**	**1.0761**	**1.2503**	**0.0000**	**2,322.3127**	**2,322.3127**	**0.5970**		**2,337.2363**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1031	3.3930	0.7519	9.3200e-003	0.2063	0.0108	0.2172	0.0566	0.0104	0.0669		1,009.8815	1,009.8815	0.0687		1,011.6000
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	0.0598	0.0426	0.5692	1.5400e-003	0.1453	1.2100e-003	0.1465	0.0385	1.1200e-003	0.0397		152.8947	152.8947	4.8200e-003		153.0152
Total	**0.1629**	**3.4355**	**1.3211**	**0.0109**	**0.3516**	**0.0120**	**0.3637**	**0.0951**	**0.0115**	**0.1066**		**1,162.7762**	**1,162.7762**	**0.0736**		**1,164.6152**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.6521	19.9196	11.2678	0.0245		0.7771	0.7771		0.7149	0.7149		2,372.9062	2,372.9062	0.7675		2,392.0924
Total	**1.6521**	**19.9196**	**11.2678**	**0.0245**	**1.5908**	**0.7771**	**2.3678**	**0.1718**	**0.7149**	**0.8867**		**2,372.9062**	**2,372.9062**	**0.7675**		**2,392.0924**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		94.0890	94.0890	2.9700e-003		94.1632
Total	**0.0368**	**0.0262**	**0.3503**	**9.4000e-004**	**0.0894**	**7.5000e-004**	**0.0902**	**0.0237**	**6.9000e-004**	**0.0244**		**94.0890**	**94.0890**	**2.9700e-003**		**94.1632**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7158	0.0000	0.7158	0.0773	0.0000	0.0773			0.0000			0.0000
Off-Road	1.6521	19.9196	11.2678	0.0245		0.7771	0.7771		0.7149	0.7149	0.0000	2,372.9062	2,372.9062	0.7675		2,392.0924
Total	**1.6521**	**19.9196**	**11.2678**	**0.0245**	**0.7158**	**0.7771**	**1.4929**	**0.0773**	**0.7149**	**0.7922**	**0.0000**	**2,372.9062**	**2,372.9062**	**0.7675**		**2,392.0924**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0368	0.0262	0.3503	9.4000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		94.0890	94.0890	2.9700e-003		94.1632
Total	**0.0368**	**0.0262**	**0.3503**	**9.4000e-004**	**0.0894**	**7.5000e-004**	**0.0902**	**0.0237**	**6.9000e-004**	**0.0244**		**94.0890**	**94.0890**	**2.9700e-003**		**94.1632**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.9219	21.3418	9.9355	0.0206		0.9902	0.9902		0.9110	0.9110		1,996.4061	1,996.4061	0.6457		2,012.5480
Total	**1.9219**	**21.3418**	**9.9355**	**0.0206**	**6.5523**	**0.9902**	**7.5425**	**3.3675**	**0.9110**	**4.2784**		**1,996.4061**	**1,996.4061**	**0.6457**		**2,012.5480**

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0460	0.0327	0.4378	1.1800e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		117.6113	117.6113	3.7100e-003		117.7040
Total	**0.0460**	**0.0327**	**0.4378**	**1.1800e-003**	**0.1118**	**9.3000e-004**	**0.1127**	**0.0296**	**8.6000e-004**	**0.0305**		**117.6113**	**117.6113**	**3.7100e-003**		**117.7040**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9486	0.0000	2.9486	1.5154	0.0000	1.5154			0.0000			0.0000
Off-Road	1.9219	21.3418	9.9355	0.0206		0.9902	0.9902		0.9110	0.9110	0.0000	1,996.4061	1,996.4061	0.6457		2,012.5480
Total	**1.9219**	**21.3418**	**9.9355**	**0.0206**	**2.9486**	**0.9902**	**3.9387**	**1.5154**	**0.9110**	**2.4263**	**0.0000**	**1,996.4061**	**1,996.4061**	**0.6457**		**2,012.5480**

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0460	0.0327	0.4378	1.1800e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		117.6113	117.6113	3.7100e-003		117.7040
Total	**0.0460**	**0.0327**	**0.4378**	**1.1800e-003**	**0.1118**	**9.3000e-004**	**0.1127**	**0.0296**	**8.6000e-004**	**0.0305**		**117.6113**	**117.6113**	**3.7100e-003**		**117.7040**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8401	12.1095	12.8083	0.0193		0.7287	0.7287		0.7070	0.7070		1,737.0830	1,737.0830	0.2861		1,744.2350
Total	**1.8401**	**12.1095**	**12.8083**	**0.0193**		**0.7287**	**0.7287**		**0.7070**	**0.7070**		**1,737.0830**	**1,737.0830**	**0.2861**		**1,744.2350**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0285	0.8510	0.2230	2.0800e-003	0.0512	4.0100e-003	0.0552	0.0148	3.8300e-003	0.0186		221.6198	221.6198	0.0135		221.9579
Worker	0.2531	0.1801	2.4081	6.5000e-003	0.6148	5.1400e-003	0.6199	0.1630	4.7300e-003	0.1678		646.8621	646.8621	0.0204		647.3719
Total	**0.2816**	**1.0310**	**2.6311**	**8.5800e-003**	**0.6660**	**9.1500e-003**	**0.6751**	**0.1778**	**8.5600e-003**	**0.1864**		**868.4818**	**868.4818**	**0.0339**		**869.3298**

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	1.8401	12.1095	12.8083	0.0193		0.7287	0.7287		0.7070	0.7070	0.0000	1,737.0830	1,737.0830	0.2861		1,744.2350
Total	**1.8401**	**12.1095**	**12.8083**	**0.0193**		**0.7287**	**0.7287**		**0.7070**	**0.7070**	**0.0000**	**1,737.0830**	**1,737.0830**	**0.2861**		**1,744.2350**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0285	0.8510	0.2230	2.0800e-003	0.0512	4.0100e-003	0.0552	0.0148	3.8300e-003	0.0186		221.6198	221.6198	0.0135		221.9579
Worker	0.2531	0.1801	2.4081	6.5000e-003	0.6148	5.1400e-003	0.6199	0.1630	4.7300e-003	0.1678		646.8621	646.8621	0.0204		647.3719
Total	**0.2816**	**1.0310**	**2.6311**	**8.5800e-003**	**0.6660**	**9.1500e-003**	**0.6751**	**0.1778**	**8.5600e-003**	**0.1864**		**868.4818**	**868.4818**	**0.0339**		**869.3298**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6373	11.2388	12.6049	0.0193		0.6228	0.6228		0.6042	0.6042		1,737.1810	1,737.1810	0.2719		1,743.9778
Total	**1.6373**	**11.2388**	**12.6049**	**0.0193**		**0.6228**	**0.6228**		**0.6042**	**0.6042**		**1,737.1810**	**1,737.1810**	**0.2719**		**1,743.9778**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0243	0.7767	0.2031	2.0600e-003	0.0512	1.5900e-003	0.0528	0.0148	1.5200e-003	0.0163		219.9045	219.9045	0.0130		220.2284
Worker	0.2358	0.1621	2.2153	6.2900e-003	0.6148	4.9700e-003	0.6197	0.1630	4.5800e-003	0.1676		626.3234	626.3234	0.0185		626.7848
Total	**0.2601**	**0.9388**	**2.4183**	**8.3500e-003**	**0.6660**	**6.5600e-003**	**0.6726**	**0.1778**	**6.1000e-003**	**0.1839**		**846.2279**	**846.2279**	**0.0314**		**847.0132**

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	1.6373	11.2388	12.6049	0.0193		0.6228	0.6228		0.6042	0.6042	0.0000	1,737.1810	1,737.1810	0.2719		1,743.9778
Total	**1.6373**	**11.2388**	**12.6049**	**0.0193**		**0.6228**	**0.6228**		**0.6042**	**0.6042**	**0.0000**	**1,737.1810**	**1,737.1810**	**0.2719**		**1,743.9778**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0243	0.7767	0.2031	2.0600e-003	0.0512	1.5900e-003	0.0528	0.0148	1.5200e-003	0.0163		219.9045	219.9045	0.0130		220.2284
Worker	0.2358	0.1621	2.2153	6.2900e-003	0.6148	4.9700e-003	0.6197	0.1630	4.5800e-003	0.1676		626.3234	626.3234	0.0185		626.7848
Total	**0.2601**	**0.9388**	**2.4183**	**8.3500e-003**	**0.6660**	**6.5600e-003**	**0.6726**	**0.1778**	**6.1000e-003**	**0.1839**		**846.2279**	**846.2279**	**0.0314**		**847.0132**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0633	10.6478	11.7756	0.0178		0.5826	0.5826		0.5371	0.5371		1,709.1107	1,709.1107	0.5417		1,722.6524
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0633**	**10.6478**	**11.7756**	**0.0178**		**0.5826**	**0.5826**		**0.5371**	**0.5371**		**1,709.1107**	**1,709.1107**	**0.5417**		**1,722.6524**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	**0.0643**	**0.0442**	**0.6042**	**1.7100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**170.8155**	**170.8155**	**5.0300e-003**		**170.9413**

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	1.0633	10.6478	11.7756	0.0178		0.5826	0.5826		0.5371	0.5371	0.0000	1,709.1107	1,709.1107	0.5417		1,722.6524
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0633**	**10.6478**	**11.7756**	**0.0178**		**0.5826**	**0.5826**		**0.5371**	**0.5371**	**0.0000**	**1,709.1107**	**1,709.1107**	**0.5417**		**1,722.6524**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	**0.0643**	**0.0442**	**0.6042**	**1.7100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**170.8155**	**170.8155**	**5.0300e-003**		**170.9413**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	47.5551					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**47.7740**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0472	0.0324	0.4431	1.2600e-003	0.1230	9.9000e-004	0.1240	0.0326	9.2000e-004	0.0335		125.2647	125.2647	3.6900e-003		125.3570
Total	**0.0472**	**0.0324**	**0.4431**	**1.2600e-003**	**0.1230**	**9.9000e-004**	**0.1240**	**0.0326**	**9.2000e-004**	**0.0335**		**125.2647**	**125.2647**	**3.6900e-003**		**125.3570**

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	47.5551					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**47.7740**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0472	0.0324	0.4431	1.2600e-003	0.1230	9.9000e-004	0.1240	0.0326	9.2000e-004	0.0335		125.2647	125.2647	3.6900e-003		125.3570
Total	**0.0472**	**0.0324**	**0.4431**	**1.2600e-003**	**0.1230**	**9.9000e-004**	**0.1240**	**0.0326**	**9.2000e-004**	**0.0335**		**125.2647**	**125.2647**	**3.6900e-003**		**125.3570**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.8882	4.0410	11.0726	0.0373	2.9147	0.0310	2.9457	0.7801	0.0289	0.8090		3,797.3409	3,797.3409	0.2016		3,802.3818
Unmitigated	0.9805	4.6166	13.4594	0.0464	3.6724	0.0382	3.7106	0.9828	0.0357	1.0185		4,720.1548	4,720.1548	0.2451		4,726.2821

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	505.40	485.64	445.36	1,688,073	1,339,797
Total	505.40	485.64	445.36	1,688,073	1,339,797

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0301	0.2571	0.1094	1.6400e-003		0.0208	0.0208		0.0208	0.0208		328.1576	328.1576	6.2900e-003	6.0200e-003	330.1077
NaturalGas Unmitigated	0.0301	0.2571	0.1094	1.6400e-003		0.0208	0.0208		0.0208	0.0208		328.1576	328.1576	6.2900e-003	6.0200e-003	330.1077

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2789.34	0.0301	0.2571	0.1094	1.6400e-003		0.0208	0.0208		0.0208	0.0208		328.1576	328.1576	6.2900e-003	6.0200e-003	330.1077
Total		**0.0301**	**0.2571**	**0.1094**	**1.6400e-003**		**0.0208**	**0.0208**		**0.0208**	**0.0208**		**328.1576**	**328.1576**	**6.2900e-003**	**6.0200e-003**	**330.1077**

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 Mid Rise	2.78934	0.0301	0.2571	0.1094	1.6400e-003		0.0208	0.0208		0.0208	0.0208		328.1576	328.1576	6.2900e-003	6.0200e-003	330.1077
Total		**0.0301**	**0.2571**	**0.1094**	**1.6400e-003**		**0.0208**	**0.0208**		**0.0208**	**0.0208**		**328.1576**	**328.1576**	**6.2900e-003**	**6.0200e-003**	**330.1077**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7082	0.0725	6.2837	3.3000e-004		0.0346	0.0346		0.0346	0.0346	0.0000	11.2900	11.2900	0.0109	0.0000	11.5635
Unmitigated	1.8255	0.0725	6.2837	3.3000e-004		0.0346	0.0346		0.0346	0.0346	0.0000	11.2900	11.2900	0.0109	0.0000	11.5635

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	0.1303					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.5048					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1904	0.0725	6.2837	3.3000e-004		0.0346	0.0346		0.0346	0.0346		11.2900	11.2900	0.0109		11.5635
Total	**1.8255**	**0.0725**	**6.2837**	**3.3000e-004**		**0.0346**	**0.0346**		**0.0346**	**0.0346**	**0.0000**	**11.2900**	**11.2900**	**0.0109**	**0.0000**	**11.5635**

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	0.0130					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.5048					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1904	0.0725	6.2837	3.3000e-004		0.0346	0.0346		0.0346	0.0346		11.2900	11.2900	0.0109		11.5635
Total	**1.7082**	**0.0725**	**6.2837**	**3.3000e-004**		**0.0346**	**0.0346**		**0.0346**	**0.0346**	**0.0000**	**11.2900**	**11.2900**	**0.0109**	**0.0000**	**11.5635**

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

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Artesia HO-O Zone Implementation - Area F

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	76.00	Dwelling Unit	2.54	76,000.00	217

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction hypothesized to start in March 2020 for model purposes.
Project modeled to be operational in 2021.

Land Use - Combined Group F lot area.
Dimensions - L.A. Co. Assessor.

Construction Phase - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment - Cranes anticipated to be used approx 14 days over 220-day consruction period.
14 days/220 days = 0.1 = fractional crane use over whole period.

Off-road Equipment - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment - Defaults used.
Grading - Assumes no cut/fill. Terrain is flat.

Demolition - Extg bldg square footage obtained from L.A. Co. Assessor.

Trips and VMT - Defaults used.

On-road Fugitive Dust -

Architectural Coating -

Woodstoves - No fireplaces/wood stoves.

Consumer Products - Defaults used.

Area Coating - Defaults used.

Energy Use - Defaults used.

Water And Wastewater - Defaults used.

Solid Waste - Defaults used.

Land Use Change - No natural vegetation changes - area previously developed, urban.

Sequestration - Assume 1/4 tree per unit.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Density overall increased from ~ 15/acre to 30/acre.

Area Mitigation - Zero VOC coatings indicated to be 5 g/l or less - used Dunn-Edwards "Everest" zero-VOC paint as example.

Energy Mitigation - Required PV installation per 2018 Title 24 Multifamily Residential on-site solar provision.
See Cal. Energy Comm, Residential Compliance Manual, December 2018, p. 7-1 for calculating PV system size.

Water Mitigation - defaults used; assume Ti. 24 compliance for low-flow fixtures.

Waste Mitigation - Defaults used.

Artesia HO-O Zone Implementation - Area F - Los Angeles-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	5
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	5
tblFireplaces	NumberGas	64.60	0.00
tblFireplaces	NumberNoFireplace	7.60	76.00
tblFireplaces	NumberWood	3.80	0.00
tblLandUse	LotAcreage	2.00	2.54
tblOffRoadEquipment	UsageHours	8.00	0.10
tblSequestration	NumberOfNewTrees	0.00	19.00
tblWoodstoves	NumberCatalytic	3.80	0.00
tblWoodstoves	NumberNoncatalytic	3.80	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.2982	24.4303	15.9776	0.0347	6.6641	1.1647	7.6552	3.3971	1.0878	4.3089	0.0000	3,458.7683	3,458.7683	0.7702	0.0000	3,475.5864
2021	47.8265	12.1933	14.8549	0.0272	0.6660	0.6294	1.2954	0.1778	0.6104	0.7881	0.0000	2,540.7955	2,540.7955	0.5464	0.0000	2,548.3713
Maximum	**47.8265**	**24.4303**	**15.9776**	**0.0347**	**6.6641**	**1.1647**	**7.6552**	**3.3971**	**1.0878**	**4.3089**	**0.0000**	**3,458.7683**	**3,458.7683**	**0.7702**	**0.0000**	**3,475.5864**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	2.2982	24.4303	15.9776	0.0347	3.0603	1.1647	4.0514	1.5450	1.0878	2.4568	0.0000	3,458.7683	3,458.7683	0.7702	0.0000	3,475.5864
2021	47.8265	12.1933	14.8549	0.0272	0.6660	0.6294	1.2954	0.1778	0.6104	0.7881	0.0000	2,540.7955	2,540.7955	0.5464	0.0000	2,548.3713
Maximum	**47.8265**	**24.4303**	**15.9776**	**0.0347**	**3.0603**	**1.1647**	**4.0514**	**1.5450**	**1.0878**	**2.4568**	**0.0000**	**3,458.7683**	**3,458.7683**	**0.7702**	**0.0000**	**3,475.5864**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**49.16**	**0.00**	**40.26**	**51.81**	**0.00**	**36.34**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.8255	0.0725	6.2837	3.3000e-004		0.0346	0.0346		0.0346	0.0346	0.0000	11.2900	11.2900	0.0109	0.0000	11.5635
Energy	0.0301	0.2571	0.1094	1.6400e-003		0.0208	0.0208		0.0208	0.0208		328.1576	328.1576	6.2900e-003	6.0200e-003	330.1077
Mobile	0.9527	4.7384	12.7717	0.0442	3.6724	0.0384	3.7108	0.9828	0.0359	1.0187		4,491.7340	4,491.7340	0.2440		4,497.8339
Total	**2.8083**	**5.0680**	**19.1649**	**0.0461**	**3.6724**	**0.0939**	**3.7662**	**0.9828**	**0.0913**	**1.0741**	**0.0000**	**4,831.1816**	**4,831.1816**	**0.2612**	**6.0200e-003**	**4,839.5051**

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	1.7082	0.0725	6.2837	3.3000e-004		0.0346	0.0346		0.0346	0.0346	0.0000	11.2900	11.2900	0.0109	0.0000	11.5635
Energy	0.0301	0.2571	0.1094	1.6400e-003		0.0208	0.0208		0.0208	0.0208		328.1576	328.1576	6.2900e-003	6.0200e-003	330.1077
Mobile	0.8627	4.1289	10.6065	0.0355	2.9147	0.0312	2.9459	0.7801	0.0291	0.8092		3,611.3577	3,611.3577	0.2017		3,616.4001
Total	**2.6010**	**4.4585**	**16.9996**	**0.0375**	**2.9147**	**0.0866**	**3.0013**	**0.7801**	**0.0845**	**0.8646**	**0.0000**	**3,950.8053**	**3,950.8053**	**0.2189**	**6.0200e-003**	**3,958.0713**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**7.38**	**12.03**	**11.30**	**18.78**	**20.63**	**7.74**	**20.31**	**20.63**	**7.43**	**19.51**	**0.00**	**18.22**	**18.22**	**16.19**	**0.00**	**18.21**

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	3/2/2020	3/27/2020	5	20	
2	Site Preparation	Site Preparation	3/28/2020	4/1/2020	5	3	
3	Grading	Grading	4/2/2020	4/9/2020	5	6	
4	Building Construction	Building Construction	4/10/2020	2/11/2021	5	220	
5	Paving	Paving	2/12/2021	2/25/2021	5	10	
6	Architectural Coating	Architectural Coating	2/26/2021	3/11/2021	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 153,900; Residential Outdoor: 51,300; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Artesia HO-O Zone Implementation - Area F - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	0.10	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Scrapers	1	8.00	367	0.48
Building Construction	Welders	3	8.00	46	0.45

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
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	55.00	8.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	236.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	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

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5557	0.0000	2.5557	0.3870	0.0000	0.3870			0.0000			0.0000
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761		2,322.3127	2,322.3127	0.5970		2,337.2363
Total	**2.1262**	**20.9463**	**14.6573**	**0.0241**	**2.5557**	**1.1525**	**3.7082**	**0.3870**	**1.0761**	**1.4631**		**2,322.3127**	**2,322.3127**	**0.5970**		**2,337.2363**

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1056	3.4369	0.7990	9.1600e-003	0.2063	0.0110	0.2173	0.0566	0.0105	0.0671		992.4910	992.4910	0.0712		994.2720
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	0.0664	0.0471	0.5213	1.4500e-003	0.1453	1.2100e-003	0.1465	0.0385	1.1200e-003	0.0397		143.9647	143.9647	4.5400e-003		144.0781
Total	**0.1720**	**3.4840**	**1.3204**	**0.0106**	**0.3516**	**0.0122**	**0.3638**	**0.0951**	**0.0116**	**0.1067**		**1,136.4557**	**1,136.4557**	**0.0758**		**1,138.3501**

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					1.1501	0.0000	1.1501	0.1741	0.0000	0.1741			0.0000			0.0000
Off-Road	2.1262	20.9463	14.6573	0.0241		1.1525	1.1525		1.0761	1.0761	0.0000	2,322.3127	2,322.3127	0.5970		2,337.2363
Total	**2.1262**	**20.9463**	**14.6573**	**0.0241**	**1.1501**	**1.1525**	**2.3025**	**0.1741**	**1.0761**	**1.2503**	**0.0000**	**2,322.3127**	**2,322.3127**	**0.5970**		**2,337.2363**

3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1056	3.4369	0.7990	9.1600e-003	0.2063	0.0110	0.2173	0.0566	0.0105	0.0671		992.4910	992.4910	0.0712		994.2720
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	0.0664	0.0471	0.5213	1.4500e-003	0.1453	1.2100e-003	0.1465	0.0385	1.1200e-003	0.0397		143.9647	143.9647	4.5400e-003		144.0781
Total	**0.1720**	**3.4840**	**1.3204**	**0.0106**	**0.3516**	**0.0122**	**0.3638**	**0.0951**	**0.0116**	**0.1067**		**1,136.4557**	**1,136.4557**	**0.0758**		**1,138.3501**

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.5908	0.0000	1.5908	0.1718	0.0000	0.1718			0.0000			0.0000
Off-Road	1.6521	19.9196	11.2678	0.0245		0.7771	0.7771		0.7149	0.7149		2,372.9062	2,372.9062	0.7675		2,392.0924
Total	**1.6521**	**19.9196**	**11.2678**	**0.0245**	**1.5908**	**0.7771**	**2.3678**	**0.1718**	**0.7149**	**0.8867**		**2,372.9062**	**2,372.9062**	**0.7675**		**2,392.0924**

3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0409	0.0290	0.3208	8.9000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		88.5936	88.5936	2.7900e-003		88.6634
Total	**0.0409**	**0.0290**	**0.3208**	**8.9000e-004**	**0.0894**	**7.5000e-004**	**0.0902**	**0.0237**	**6.9000e-004**	**0.0244**		**88.5936**	**88.5936**	**2.7900e-003**		**88.6634**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.7158	0.0000	0.7158	0.0773	0.0000	0.0773			0.0000			0.0000
Off-Road	1.6521	19.9196	11.2678	0.0245		0.7771	0.7771		0.7149	0.7149	0.0000	2,372.9062	2,372.9062	0.7675		2,392.0924
Total	**1.6521**	**19.9196**	**11.2678**	**0.0245**	**0.7158**	**0.7771**	**1.4929**	**0.0773**	**0.7149**	**0.7922**	**0.0000**	**2,372.9062**	**2,372.9062**	**0.7675**		**2,392.0924**

3.3 Site Preparation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0409	0.0290	0.3208	8.9000e-004	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		88.5936	88.5936	2.7900e-003		88.6634
Total	**0.0409**	**0.0290**	**0.3208**	**8.9000e-004**	**0.0894**	**7.5000e-004**	**0.0902**	**0.0237**	**6.9000e-004**	**0.0244**		**88.5936**	**88.5936**	**2.7900e-003**		**88.6634**

3.4 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.9219	21.3418	9.9355	0.0206		0.9902	0.9902		0.9110	0.9110		1,996.4061	1,996.4061	0.6457		2,012.5480
Total	**1.9219**	**21.3418**	**9.9355**	**0.0206**	**6.5523**	**0.9902**	**7.5425**	**3.3675**	**0.9110**	**4.2784**		**1,996.4061**	**1,996.4061**	**0.6457**		**2,012.5480**

3.4 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0511	0.0363	0.4010	1.1100e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		110.7420	110.7420	3.4900e-003		110.8293
Total	**0.0511**	**0.0363**	**0.4010**	**1.1100e-003**	**0.1118**	**9.3000e-004**	**0.1127**	**0.0296**	**8.6000e-004**	**0.0305**		**110.7420**	**110.7420**	**3.4900e-003**		**110.8293**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9486	0.0000	2.9486	1.5154	0.0000	1.5154			0.0000			0.0000
Off-Road	1.9219	21.3418	9.9355	0.0206		0.9902	0.9902		0.9110	0.9110	0.0000	1,996.4061	1,996.4061	0.6457		2,012.5480
Total	**1.9219**	**21.3418**	**9.9355**	**0.0206**	**2.9486**	**0.9902**	**3.9387**	**1.5154**	**0.9110**	**2.4263**	**0.0000**	**1,996.4061**	**1,996.4061**	**0.6457**		**2,012.5480**

3.4 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0511	0.0363	0.4010	1.1100e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		110.7420	110.7420	3.4900e-003		110.8293
Total	**0.0511**	**0.0363**	**0.4010**	**1.1100e-003**	**0.1118**	**9.3000e-004**	**0.1127**	**0.0296**	**8.6000e-004**	**0.0305**		**110.7420**	**110.7420**	**3.4900e-003**		**110.8293**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8401	12.1095	12.8083	0.0193		0.7287	0.7287		0.7070	0.7070		1,737.0830	1,737.0830	0.2861		1,744.2350
Total	**1.8401**	**12.1095**	**12.8083**	**0.0193**		**0.7287**	**0.7287**		**0.7070**	**0.7070**		**1,737.0830**	**1,737.0830**	**0.2861**		**1,744.2350**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0298	0.8508	0.2459	2.0200e-003	0.0512	4.0700e-003	0.0553	0.0148	3.8900e-003	0.0186		215.5593	215.5593	0.0144		215.9196
Worker	0.2811	0.1994	2.2056	6.1200e-003	0.6148	5.1400e-003	0.6199	0.1630	4.7300e-003	0.1678		609.0812	609.0812	0.0192		609.5612
Total	**0.3108**	**1.0502**	**2.4515**	**8.1400e-003**	**0.6660**	**9.2100e-003**	**0.6752**	**0.1778**	**8.6200e-003**	**0.1864**		**824.6405**	**824.6405**	**0.0336**		**825.4808**

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	1.8401	12.1095	12.8083	0.0193		0.7287	0.7287		0.7070	0.7070	0.0000	1,737.0830	1,737.0830	0.2861		1,744.2350
Total	**1.8401**	**12.1095**	**12.8083**	**0.0193**		**0.7287**	**0.7287**		**0.7070**	**0.7070**	**0.0000**	**1,737.0830**	**1,737.0830**	**0.2861**		**1,744.2350**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0298	0.8508	0.2459	2.0200e-003	0.0512	4.0700e-003	0.0553	0.0148	3.8900e-003	0.0186		215.5593	215.5593	0.0144		215.9196
Worker	0.2811	0.1994	2.2056	6.1200e-003	0.6148	5.1400e-003	0.6199	0.1630	4.7300e-003	0.1678		609.0812	609.0812	0.0192		609.5612
Total	**0.3108**	**1.0502**	**2.4515**	**8.1400e-003**	**0.6660**	**9.2100e-003**	**0.6752**	**0.1778**	**8.6200e-003**	**0.1864**		**824.6405**	**824.6405**	**0.0336**		**825.4808**

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6373	11.2388	12.6049	0.0193		0.6228	0.6228		0.6042	0.6042		1,737.1810	1,737.1810	0.2719		1,743.9778
Total	**1.6373**	**11.2388**	**12.6049**	**0.0193**		**0.6228**	**0.6228**		**0.6042**	**0.6042**		**1,737.1810**	**1,737.1810**	**0.2719**		**1,743.9778**

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0255	0.7751	0.2246	2.0000e-003	0.0512	1.6400e-003	0.0529	0.0148	1.5700e-003	0.0163		213.8764	213.8764	0.0138		214.2216
Worker	0.2623	0.1794	2.0254	5.9200e-003	0.6148	4.9700e-003	0.6197	0.1630	4.5800e-003	0.1676		589.7381	589.7381	0.0174		590.1719
Total	**0.2878**	**0.9545**	**2.2500**	**7.9200e-003**	**0.6660**	**6.6100e-003**	**0.6726**	**0.1778**	**6.1500e-003**	**0.1839**		**803.6145**	**803.6145**	**0.0312**		**804.3935**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.6373	11.2388	12.6049	0.0193		0.6228	0.6228		0.6042	0.6042	0.0000	1,737.1810	1,737.1810	0.2719		1,743.9778
Total	**1.6373**	**11.2388**	**12.6049**	**0.0193**		**0.6228**	**0.6228**		**0.6042**	**0.6042**	**0.0000**	**1,737.1810**	**1,737.1810**	**0.2719**		**1,743.9778**

3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0255	0.7751	0.2246	2.0000e-003	0.0512	1.6400e-003	0.0529	0.0148	1.5700e-003	0.0163		213.8764	213.8764	0.0138		214.2216
Worker	0.2623	0.1794	2.0254	5.9200e-003	0.6148	4.9700e-003	0.6197	0.1630	4.5800e-003	0.1676		589.7381	589.7381	0.0174		590.1719
Total	**0.2878**	**0.9545**	**2.2500**	**7.9200e-003**	**0.6660**	**6.6100e-003**	**0.6726**	**0.1778**	**6.1500e-003**	**0.1839**		**803.6145**	**803.6145**	**0.0312**		**804.3935**

3.6 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0633	10.6478	11.7756	0.0178		0.5826	0.5826		0.5371	0.5371		1,709.1107	1,709.1107	0.5417		1,722.6524
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0633**	**10.6478**	**11.7756**	**0.0178**		**0.5826**	**0.5826**		**0.5371**	**0.5371**		**1,709.1107**	**1,709.1107**	**0.5417**		**1,722.6524**

3.6 Paving - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	**0.0715**	**0.0489**	**0.5524**	**1.6100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**160.8377**	**160.8377**	**4.7300e-003**		**160.9560**

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	1.0633	10.6478	11.7756	0.0178		0.5826	0.5826		0.5371	0.5371	0.0000	1,709.1107	1,709.1107	0.5417		1,722.6524
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0633**	**10.6478**	**11.7756**	**0.0178**		**0.5826**	**0.5826**		**0.5371**	**0.5371**	**0.0000**	**1,709.1107**	**1,709.1107**	**0.5417**		**1,722.6524**

3.6 Paving - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	**0.0715**	**0.0489**	**0.5524**	**1.6100e-003**	**0.1677**	**1.3500e-003**	**0.1690**	**0.0445**	**1.2500e-003**	**0.0457**		**160.8377**	**160.8377**	**4.7300e-003**		**160.9560**

3.7 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	47.5551					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	**47.7740**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**		**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0525	0.0359	0.4051	1.1800e-003	0.1230	9.9000e-004	0.1240	0.0326	9.2000e-004	0.0335		117.9476	117.9476	3.4700e-003		118.0344
Total	**0.0525**	**0.0359**	**0.4051**	**1.1800e-003**	**0.1230**	**9.9000e-004**	**0.1240**	**0.0326**	**9.2000e-004**	**0.0335**		**117.9476**	**117.9476**	**3.4700e-003**		**118.0344**

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	47.5551					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
Total	**47.7740**	**1.5268**	**1.8176**	**2.9700e-003**		**0.0941**	**0.0941**		**0.0941**	**0.0941**	**0.0000**	**281.4481**	**281.4481**	**0.0193**		**281.9309**

3.7 Architectural Coating - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0525	0.0359	0.4051	1.1800e-003	0.1230	9.9000e-004	0.1240	0.0326	9.2000e-004	0.0335		117.9476	117.9476	3.4700e-003		118.0344
Total	**0.0525**	**0.0359**	**0.4051**	**1.1800e-003**	**0.1230**	**9.9000e-004**	**0.1240**	**0.0326**	**9.2000e-004**	**0.0335**		**117.9476**	**117.9476**	**3.4700e-003**		**118.0344**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.8627	4.1289	10.6065	0.0355	2.9147	0.0312	2.9459	0.7801	0.0291	0.8092		3,611.3577	3,611.3577	0.2017		3,616.4001
Unmitigated	0.9527	4.7384	12.7717	0.0442	3.6724	0.0384	3.7108	0.9828	0.0359	1.0187		4,491.7340	4,491.7340	0.2440		4,497.8339

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	505.40	485.64	445.36	1,688,073	1,339,797
Total	505.40	485.64	445.36	1,688,073	1,339,797

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0301	0.2571	0.1094	1.6400e-003		0.0208	0.0208		0.0208	0.0208		328.1576	328.1576	6.2900e-003	6.0200e-003	330.1077
NaturalGas Unmitigated	0.0301	0.2571	0.1094	1.6400e-003		0.0208	0.0208		0.0208	0.0208		328.1576	328.1576	6.2900e-003	6.0200e-003	330.1077

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	2789.34	0.0301	0.2571	0.1094	1.6400e-003		0.0208	0.0208		0.0208	0.0208		328.1576	328.1576	6.2900e-003	6.0200e-003	330.1077
Total		**0.0301**	**0.2571**	**0.1094**	**1.6400e-003**		**0.0208**	**0.0208**		**0.0208**	**0.0208**		**328.1576**	**328.1576**	**6.2900e-003**	**6.0200e-003**	**330.1077**

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 Mid Rise	2.78934	0.0301	0.2571	0.1094	1.6400e-003		0.0208	0.0208		0.0208	0.0208		328.1576	328.1576	6.2900e-003	6.0200e-003	330.1077
Total		**0.0301**	**0.2571**	**0.1094**	**1.6400e-003**		**0.0208**	**0.0208**		**0.0208**	**0.0208**		**328.1576**	**328.1576**	**6.2900e-003**	**6.0200e-003**	**330.1077**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.7082	0.0725	6.2837	3.3000e-004		0.0346	0.0346		0.0346	0.0346	0.0000	11.2900	11.2900	0.0109	0.0000	11.5635
Unmitigated	1.8255	0.0725	6.2837	3.3000e-004		0.0346	0.0346		0.0346	0.0346	0.0000	11.2900	11.2900	0.0109	0.0000	11.5635

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	0.1303					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.5048					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1904	0.0725	6.2837	3.3000e-004		0.0346	0.0346		0.0346	0.0346		11.2900	11.2900	0.0109		11.5635
Total	**1.8255**	**0.0725**	**6.2837**	**3.3000e-004**		**0.0346**	**0.0346**		**0.0346**	**0.0346**	**0.0000**	**11.2900**	**11.2900**	**0.0109**	**0.0000**	**11.5635**

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	0.0130					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.5048					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1904	0.0725	6.2837	3.3000e-004		0.0346	0.0346		0.0346	0.0346		11.2900	11.2900	0.0109		11.5635
Total	**1.7082**	**0.0725**	**6.2837**	**3.3000e-004**		**0.0346**	**0.0346**		**0.0346**	**0.0346**	**0.0000**	**11.2900**	**11.2900**	**0.0109**	**0.0000**	**11.5635**

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

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Artesia HO-O Zone Implementation - Area F

Los Angeles-South Coast County, Mitigation Report

Construction Mitigation Summary

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

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	1	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	2	No Change	0.00
Graders	Diesel	No Change	0	2	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	8	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	1	No Change	0.00
Scrapers	Diesel	No Change	0	1	No Change	0.00
Welders	Diesel	No Change	0	3	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Air Compressors	1.09000E-003	7.63000E-003	9.09000E-003	1.00000E-005	4.70000E-004	4.70000E-004	0.00000E+000	1.27663E+000	1.27663E+000	9.00000E-005	0.00000E+000	1.27882E+000
Cement and Mortar Mixers	2.90000E-004	1.84000E-003	1.54000E-003	0.00000E+000	7.00000E-005	7.00000E-005	0.00000E+000	2.29140E-001	2.29140E-001	2.00000E-005	0.00000E+000	2.29730E-001
Concrete/Industrial Saws	4.18000E-003	3.29900E-002	3.68700E-002	6.00000E-005	1.98000E-003	1.98000E-003	0.00000E+000	5.37656E+000	5.37656E+000	3.40000E-004	0.00000E+000	5.38508E+000
Cranes	6.20000E-004	7.31000E-003	2.88000E-003	1.00000E-005	3.00000E-004	2.80000E-004	0.00000E+000	6.97010E-001	6.97010E-001	2.30000E-004	0.00000E+000	7.02650E-001
Forklifts	2.73400E-002	2.46660E-001	2.26870E-001	2.90000E-004	1.82700E-002	1.68100E-002	0.00000E+000	2.58511E+001	2.58511E+001	8.36000E-003	0.00000E+000	2.60601E+001
Generator Sets	4.32700E-002	3.77960E-001	4.07300E-001	7.20000E-004	2.11600E-002	2.11600E-002	0.00000E+000	6.21728E+001	6.21728E+001	3.46000E-003	0.00000E+000	6.22592E+001
Graders	2.14000E-003	2.84600E-002	8.17000E-003	3.00000E-005	9.10000E-004	8.40000E-004	0.00000E+000	2.62379E+000	2.62379E+000	8.50000E-004	0.00000E+000	2.64501E+000
Pavers	1.23000E-003	1.29800E-002	1.45200E-002	2.00000E-005	6.30000E-004	5.80000E-004	0.00000E+000	2.06412E+000	2.06412E+000	6.70000E-004	0.00000E+000	2.08081E+000
Paving Equipment	9.60000E-004	9.70000E-003	1.27100E-002	2.00000E-005	4.80000E-004	4.40000E-004	0.00000E+000	1.78922E+000	1.78922E+000	5.80000E-004	0.00000E+000	1.80369E+000
Rollers	1.89000E-003	1.92400E-002	1.88000E-002	3.00000E-005	1.18000E-003	1.08000E-003	0.00000E+000	2.30506E+000	2.30506E+000	7.50000E-004	0.00000E+000	2.32369E+000
Rubber Tired Dozers	1.40300E-002	1.47320E-001	5.37100E-002	1.10000E-004	7.21000E-003	6.64000E-003	0.00000E+000	9.75718E+000	9.75718E+000	3.16000E-003	0.00000E+000	9.83607E+000
Scrapers	1.49000E-003	1.76300E-002	1.11900E-002	2.00000E-005	6.90000E-004	6.30000E-004	0.00000E+000	1.99628E+000	1.99628E+000	6.50000E-004	0.00000E+000	2.01242E+000
Tractors/Loaders/Backhoes	2.56300E-002	2.57770E-001	2.82510E-001	3.90000E-004	1.61700E-002	1.48700E-002	0.00000E+000	3.38527E+001	3.38527E+001	1.09500E-002	0.00000E+000	3.41264E+001
Welders	1.11110E-001	5.15730E-001	5.80950E-001	8.40000E-004	2.81000E-002	2.81000E-002	0.00000E+000	6.21128E+001	6.21128E+001	9.03000E-003	0.00000E+000	6.23386E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Mitigated tons/yr						Mitigated mt/yr					
Air Compressors	1.09000E-003	7.63000E-003	9.09000E-003	1.00000E-005	4.70000E-004	4.70000E-004	0.00000E+000	1.27663E+000	1.27663E+000	9.00000E-005	0.00000E+000	1.27882E+000
Cement and Mortar Mixers	2.90000E-004	1.84000E-003	1.54000E-003	0.00000E+000	7.00000E-005	7.00000E-005	0.00000E+000	2.29140E-001	2.29140E-001	2.00000E-005	0.00000E+000	2.29730E-001
Concrete/Industrial Saws	4.18000E-003	3.29900E-002	3.68700E-002	6.00000E-005	1.98000E-003	1.98000E-003	0.00000E+000	5.37656E+000	5.37656E+000	3.40000E-004	0.00000E+000	5.38507E+000
Cranes	6.20000E-004	7.31000E-003	2.88000E-003	1.00000E-005	3.00000E-004	2.80000E-004	0.00000E+000	6.97010E-001	6.97010E-001	2.30000E-004	0.00000E+000	7.02650E-001
Forklifts	2.73400E-002	2.46660E-001	2.26870E-001	2.90000E-004	1.82700E-002	1.68100E-002	0.00000E+000	2.58511E+001	2.58511E+001	8.36000E-003	0.00000E+000	2.60601E+001
Generator Sets	4.32700E-002	3.77960E-001	4.07300E-001	7.20000E-004	2.11600E-002	2.11600E-002	0.00000E+000	6.21728E+001	6.21728E+001	3.46000E-003	0.00000E+000	6.22592E+001
Graders	2.14000E-003	2.84600E-002	8.17000E-003	3.00000E-005	9.10000E-004	8.40000E-004	0.00000E+000	2.62379E+000	2.62379E+000	8.50000E-004	0.00000E+000	2.64500E+000
Pavers	1.23000E-003	1.29800E-002	1.45200E-002	2.00000E-005	6.30000E-004	5.80000E-004	0.00000E+000	2.06412E+000	2.06412E+000	6.70000E-004	0.00000E+000	2.08081E+000
Paving Equipment	9.60000E-004	9.70000E-003	1.27100E-002	2.00000E-005	4.80000E-004	4.40000E-004	0.00000E+000	1.78922E+000	1.78922E+000	5.80000E-004	0.00000E+000	1.80369E+000
Rollers	1.89000E-003	1.92400E-002	1.88000E-002	3.00000E-005	1.18000E-003	1.08000E-003	0.00000E+000	2.30505E+000	2.30505E+000	7.50000E-004	0.00000E+000	2.32369E+000
Rubber Tired Dozers	1.40300E-002	1.47320E-001	5.37100E-002	1.10000E-004	7.21000E-003	6.64000E-003	0.00000E+000	9.75717E+000	9.75717E+000	3.16000E-003	0.00000E+000	9.83606E+000
Scrapers	1.49000E-003	1.76300E-002	1.11900E-002	2.00000E-005	6.90000E-004	6.30000E-004	0.00000E+000	1.99628E+000	1.99628E+000	6.50000E-004	0.00000E+000	2.01242E+000
Tractors/Loaders/Backhoes	2.56300E-002	2.57770E-001	2.82510E-001	3.90000E-004	1.61700E-002	1.48700E-002	0.00000E+000	3.38527E+001	3.38527E+001	1.09500E-002	0.00000E+000	3.41264E+001
Welders	1.11110E-001	5.15730E-001	5.80950E-001	8.40000E-004	2.81000E-002	2.81000E-002	0.00000E+000	6.21127E+001	6.21127E+001	9.03000E-003	0.00000E+000	6.23385E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.85698E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.16049E-006	1.16049E-006	0.00000E+000	0.00000E+000	1.15119E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.12589E-006	1.12589E-006	0.00000E+000	0.00000E+000	1.12433E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	3.78070E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	4.33828E-006	4.33828E-006	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.02489E-006	1.02489E-006	0.00000E+000	0.00000E+000	1.01667E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18159E-006	1.18159E-006	0.00000E+000	0.00000E+000	1.17211E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.28798E-006	1.28798E-006	0.00000E+000	0.00000E+000	1.12290E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input		Mitigation Input		Mitigation Input	
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00

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

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.07	0.02	0.07	0.02	0.00	0.00
Demolition	Fugitive Dust	0.03	0.00	0.01	0.00	0.55	0.55
Demolition	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Grading	Fugitive Dust	0.02	0.01	0.01	0.00	0.55	0.55
Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.00	0.00	0.00	0.00	0.55	0.54
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	89.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.00	0.00	0.05
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	9.74	12.89	17.16	19.57	18.94	19.03	0.00	19.56	19.56	17.48	0.00	19.55
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	15.14	15.37	19.96	19.61	15.99
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting: Urban

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
Yes	Land Use	Increase Density	0.00	30.00		
No	Land Use	Increase Diversity	-0.01	0.13		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.21			

No	Neighborhood Enhancements	Improve Pedestrian Network				
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.21			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"	7.70			
No	Commute	Workplace Parking Charge				
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00		2.00	
No	Commute	Provide Ride Sharing Program	15.00			
	Commute	Commute Subtotal	0.00			

No	School Trip	Implement School Bus Program	0.00			
		Total VMT Reduction	0.21			

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
Yes	No Hearth	
No	Use Low VOC Cleaning Supplies	
Yes	Use Low VOC Paint (Residential Interior)	5.00
Yes	Use Low VOC Paint (Residential Exterior)	5.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
Yes	On-site Renewable	148.66	

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

Water Mitigation Measures

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

Solid Waste Mitigation

Mitigation Measures	Input Value

Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

Artesia HO-O Zone Implementation - Area G

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	86.00	Dwelling Unit	2.87	86,000.00	246

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction hypothesized to start in March 2020 for model purposes.
Project modeled to be operational in 2021.

Land Use - Combined Group E lot area less one fully-developed parcel of > 0.5 acre.
Dimensions - L.A. Co. Assessor.

Construction Phase - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment - Assumes no cut/fill. Terrain is flat.

Grading - Assumes no cut/fill. Terrain is flat.

Demolition - Extg bldg square footage obtained from L.A. Co. Assessor.

Off-road Equipment - Cranes anticipated to be used approx 14 days over 220-day consruction period.
14 days/220 days = 0.1 = fractional crane use over whole period.

Off-road Equipment - Defaults used.

Trips and VMT - Defaults used.

On-road Fugitive Dust - Defaults used.

Woodstoves - No fireplaces/woodstoves.

Consumer Products - Defaults used.

Area Coating - Defaults used.

Energy Use - Defaults used.

Water And Wastewater - Defaults used.

Solid Waste - Defaults used.

Land Use Change - No natural vegetation changes - area previously developed, urban.

Sequestration - Assumes 1/4 tree per unit.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Density overall increased from ~ 15/acre to 30/acre.

Area Mitigation - Zero VOC coatings indicated to be 5 g/l or less - used Dunn-Edwards "Everest" zero-VOC paint as example.

Energy Mitigation - Required PV installation per 2018 Title 24 Multifamily Residential on-site solar provision.
See Cal. Energy Comm, Residential Compliance Manual, December 2018, p. 7-1 for calculating PV system size.
Water Mitigation

Water Mitigation - Defaults used; assume Ti. 24 compliance for low-flow fixtures.

Artesia HO-O Zone Implementation - Area G - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	5
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	5
tblFireplaces	NumberGas	73.10	0.00
tblFireplaces	NumberNoFireplace	8.60	86.00
tblFireplaces	NumberWood	4.30	0.00
tblLandUse	LotAcreage	2.26	2.87
tblOffRoadEquipment	UsageHours	8.00	0.10
tblSequestration	NumberOfNewTrees	0.00	22.00
tblWoodstoves	NumberCatalytic	4.30	0.00
tblWoodstoves	NumberNoncatalytic	4.30	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.2468	1.6289	1.6370	3.0000e-003	0.1152	0.0929	0.2080	0.0325	0.0894	0.1218	0.0000	258.8286	258.8286	0.0365	0.0000	259.7420
2020	0.3231	0.3531	0.4097	7.3000e-004	0.0173	0.0197	0.0370	4.6200e-003	0.0190	0.0236	0.0000	62.7109	62.7109	8.9100e-003	0.0000	62.9337
Maximum	**0.3231**	**1.6289**	**1.6370**	**3.0000e-003**	**0.1152**	**0.0929**	**0.2080**	**0.0325**	**0.0894**	**0.1218**	**0.0000**	**258.8286**	**258.8286**	**0.0365**	**0.0000**	**259.7420**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.2468	1.6289	1.6370	3.0000e-003	0.0897	0.0929	0.1826	0.0248	0.0894	0.1141	0.0000	258.8284	258.8284	0.0365	0.0000	259.7418
2020	0.3231	0.3531	0.4097	7.3000e-004	0.0173	0.0197	0.0370	4.6200e-003	0.0190	0.0236	0.0000	62.7108	62.7108	8.9100e-003	0.0000	62.9337
Maximum	**0.3231**	**1.6289**	**1.6370**	**3.0000e-003**	**0.0897**	**0.0929**	**0.1826**	**0.0248**	**0.0894**	**0.1141**	**0.0000**	**258.8284**	**258.8284**	**0.0365**	**0.0000**	**259.7418**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**19.19**	**0.00**	**10.37**	**20.79**	**0.00**	**5.30**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Artesia HO-O Zone Implementation - Area G - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-19-2019	6-18-2019	0.6976	0.6976
2	6-19-2019	9-18-2019	0.5472	0.5472
3	9-19-2019	12-18-2019	0.5430	0.5430
4	12-19-2019	3-18-2020	0.5679	0.5679
5	3-19-2020	6-18-2020	0.1795	0.1795
		Highest	0.6976	0.6976

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	0.3646	0.0103	0.8888	5.0000e-005		4.9000e-003	4.9000e-003		4.9000e-003	4.9000e-003	0.0000	1.4487	1.4487	1.4000e-003	0.0000	1.4838
Energy	6.2100e-003	0.0531	0.0226	3.4000e-004		4.2900e-003	4.2900e-003		4.2900e-003	4.2900e-003	0.0000	172.4046	172.4046	5.7600e-003	2.0700e-003	173.1668
Mobile	0.1875	0.9718	2.6084	9.0100e-003	0.7250	7.7000e-003	0.7327	0.1943	7.1900e-003	0.2015	0.0000	831.7622	831.7622	0.0444	0.0000	832.8724
Waste						0.0000	0.0000		0.0000	0.0000	8.0303	0.0000	8.0303	0.4746	0.0000	19.8948
Water						0.0000	0.0000		0.0000	0.0000	1.7777	35.7512	37.5288	0.1841	4.6200e-003	43.5060
Total	**0.5583**	**1.0351**	**3.5198**	**9.4000e-003**	**0.7250**	**0.0169**	**0.7419**	**0.1943**	**0.0164**	**0.2107**	**9.8080**	**1,041.3666**	**1,051.1746**	**0.7102**	**6.6900e-003**	**1,070.9237**

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	0.3404	0.0103	0.8888	5.0000e-005		4.9000e-003	4.9000e-003		4.9000e-003	4.9000e-003	0.0000	1.4487	1.4487	1.4000e-003	0.0000	1.4838
Energy	6.2100e-003	0.0531	0.0226	3.4000e-004		4.2900e-003	4.2900e-003		4.2900e-003	4.2900e-003	0.0000	172.3510	172.3510	5.7600e-003	2.0700e-003	173.1130
Mobile	0.1692	0.8466	2.1609	7.2500e-003	0.5754	6.2400e-003	0.5817	0.1543	5.8300e-003	0.1601	0.0000	669.1049	669.1049	0.0366	0.0000	670.0208
Waste						0.0000	0.0000		0.0000	0.0000	8.0303	0.0000	8.0303	0.4746	0.0000	19.8948
Water						0.0000	0.0000		0.0000	0.0000	1.4221	30.3391	31.7612	0.1473	3.7100e-003	36.5491
Total	**0.5158**	**0.9099**	**3.0723**	**7.6400e-003**	**0.5754**	**0.0154**	**0.5909**	**0.1543**	**0.0150**	**0.1693**	**9.4524**	**873.2437**	**882.6961**	**0.6657**	**5.7800e-003**	**901.0615**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**7.61**	**12.10**	**12.72**	**18.72**	**20.63**	**8.64**	**20.36**	**20.63**	**8.30**	**19.67**	**3.62**	**16.14**	**16.03**	**6.27**	**13.60**	**15.86**

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	15.5760
Total	**15.5760**

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	3/19/2019	4/15/2019	5	20	
2	Site Preparation	Site Preparation	4/16/2019	4/18/2019	5	3	
3	Grading	Grading	4/19/2019	4/26/2019	5	6	
4	Building Construction	Building Construction	4/27/2019	2/28/2020	5	220	
5	Paving	Paving	2/29/2020	3/13/2020	5	10	
6	Architectural Coating	Architectural Coating	3/14/2020	3/27/2020	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 174,150; Residential Outdoor: 58,050; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	0.10	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Scrapers	1	8.00	367	0.48
Building Construction	Welders	3	8.00	46	0.45

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
Architectural Coating	1	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	62.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	223.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	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

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0242	0.0000	0.0242	3.6600e-003	0.0000	3.6600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0230	0.2268	0.1489	2.4000e-004		0.0129	0.0129		0.0120	0.0120	0.0000	21.4161	21.4161	5.4500e-003	0.0000	21.5524
Total	**0.0230**	**0.2268**	**0.1489**	**2.4000e-004**	**0.0242**	**0.0129**	**0.0370**	**3.6600e-003**	**0.0120**	**0.0157**	**0.0000**	**21.4161**	**21.4161**	**5.4500e-003**	**0.0000**	**21.5524**

3.2 Demolition - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0600e-003	0.0353	7.5000e-003	9.0000e-005	1.9200e-003	1.3000e-004	2.0400e-003	5.3000e-004	1.2000e-004	6.5000e-004	0.0000	8.6823	8.6823	6.1000e-004	0.0000	8.6977
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	6.5000e-004	5.4000e-004	5.9000e-003	2.0000e-005	1.4200e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.3694	1.3694	5.0000e-005	0.0000	1.3705
Total	**1.7100e-003**	**0.0358**	**0.0134**	**1.1000e-004**	**3.3400e-003**	**1.4000e-004**	**3.4800e-003**	**9.1000e-004**	**1.3000e-004**	**1.0400e-003**	**0.0000**	**10.0517**	**10.0517**	**6.6000e-004**	**0.0000**	**10.0682**

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					0.0109	0.0000	0.0109	1.6500e-003	0.0000	1.6500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0230	0.2268	0.1489	2.4000e-004		0.0129	0.0129		0.0120	0.0120	0.0000	21.4161	21.4161	5.4500e-003	0.0000	21.5524
Total	**0.0230**	**0.2268**	**0.1489**	**2.4000e-004**	**0.0109**	**0.0129**	**0.0237**	**1.6500e-003**	**0.0120**	**0.0137**	**0.0000**	**21.4161**	**21.4161**	**5.4500e-003**	**0.0000**	**21.5524**

3.2 Demolition - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.0600e-003	0.0353	7.5000e-003	9.0000e-005	1.9200e-003	1.3000e-004	2.0400e-003	5.3000e-004	1.2000e-004	6.5000e-004	0.0000	8.6823	8.6823	6.1000e-004	0.0000	8.6977
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	6.5000e-004	5.4000e-004	5.9000e-003	2.0000e-005	1.4200e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.3694	1.3694	5.0000e-005	0.0000	1.3705
Total	**1.7100e-003**	**0.0358**	**0.0134**	**1.1000e-004**	**3.3400e-003**	**1.4000e-004**	**3.4800e-003**	**9.1000e-004**	**1.3000e-004**	**1.0400e-003**	**0.0000**	**10.0517**	**10.0517**	**6.6000e-004**	**0.0000**	**10.0682**

3.3 Site Preparation - 2019

Unmitigated Construction On-Site

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

3.3 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	5.0000e-005	5.4000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.1264	0.1264	0.0000	0.0000	0.1265
Total	**6.0000e-005**	**5.0000e-005**	**5.4000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**3.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.1264**	**0.1264**	**0.0000**	**0.0000**	**0.1265**

Mitigated Construction On-Site

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

3.3 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-005	5.0000e-005	5.4000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.1264	0.1264	0.0000	0.0000	0.1265
Total	**6.0000e-005**	**5.0000e-005**	**5.4000e-004**	**0.0000**	**1.3000e-004**	**0.0000**	**1.3000e-004**	**3.0000e-005**	**0.0000**	**4.0000e-005**	**0.0000**	**0.1264**	**0.1264**	**0.0000**	**0.0000**	**0.1265**

3.4 Grading - 2019

Unmitigated Construction On-Site

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

3.4 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.3000e-004	1.3600e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3160	0.3160	1.0000e-005	0.0000	0.3163
Total	**1.5000e-004**	**1.3000e-004**	**1.3600e-003**	**0.0000**	**3.3000e-004**	**0.0000**	**3.3000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.3160**	**0.3160**	**1.0000e-005**	**0.0000**	**0.3163**

Mitigated Construction On-Site

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

3.4 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5000e-004	1.3000e-004	1.3600e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3160	0.3160	1.0000e-005	0.0000	0.3163
Total	**1.5000e-004**	**1.3000e-004**	**1.3600e-003**	**0.0000**	**3.3000e-004**	**0.0000**	**3.3000e-004**	**9.0000e-005**	**0.0000**	**9.0000e-005**	**0.0000**	**0.3160**	**0.3160**	**1.0000e-005**	**0.0000**	**0.3163**

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1823	1.1486	1.1496	1.7100e-003		0.0742	0.0742		0.0720	0.0720	0.0000	140.3457	140.3457	0.0243	0.0000	140.9529
Total	**0.1823**	**1.1486**	**1.1496**	**1.7100e-003**		**0.0742**	**0.0742**		**0.0720**	**0.0720**	**0.0000**	**140.3457**	**140.3457**	**0.0243**	**0.0000**	**140.9529**

3.5 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3700e-003	0.0941	0.0257	2.1000e-004	5.0200e-003	5.9000e-004	5.6100e-003	1.4500e-003	5.7000e-004	2.0100e-003	0.0000	19.9176	19.9176	1.3300e-003	0.0000	19.9509
Worker	0.0275	0.0229	0.2491	6.4000e-004	0.0601	5.3000e-004	0.0607	0.0160	4.9000e-004	0.0165	0.0000	57.7977	57.7977	1.9900e-003	0.0000	57.8474
Total	**0.0309**	**0.1170**	**0.2748**	**8.5000e-004**	**0.0652**	**1.1200e-003**	**0.0663**	**0.0174**	**1.0600e-003**	**0.0185**	**0.0000**	**77.7154**	**77.7154**	**3.3200e-003**	**0.0000**	**77.7983**

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	0.1823	1.1486	1.1496	1.7100e-003		0.0742	0.0742		0.0720	0.0720	0.0000	140.3455	140.3455	0.0243	0.0000	140.9528
Total	**0.1823**	**1.1486**	**1.1496**	**1.7100e-003**		**0.0742**	**0.0742**		**0.0720**	**0.0720**	**0.0000**	**140.3455**	**140.3455**	**0.0243**	**0.0000**	**140.9528**

3.5 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.3700e-003	0.0941	0.0257	2.1000e-004	5.0200e-003	5.9000e-004	5.6100e-003	1.4500e-003	5.7000e-004	2.0100e-003	0.0000	19.9176	19.9176	1.3300e-003	0.0000	19.9509
Worker	0.0275	0.0229	0.2491	6.4000e-004	0.0601	5.3000e-004	0.0607	0.0160	4.9000e-004	0.0165	0.0000	57.7977	57.7977	1.9900e-003	0.0000	57.8474
Total	**0.0309**	**0.1170**	**0.2748**	**8.5000e-004**	**0.0652**	**1.1200e-003**	**0.0663**	**0.0174**	**1.0600e-003**	**0.0185**	**0.0000**	**77.7154**	**77.7154**	**3.3200e-003**	**0.0000**	**77.7983**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0396	0.2604	0.2754	4.2000e-004		0.0157	0.0157		0.0152	0.0152	0.0000	33.8809	33.8809	5.5800e-003	0.0000	34.0204
Total	**0.0396**	**0.2604**	**0.2754**	**4.2000e-004**		**0.0157**	**0.0157**		**0.0152**	**0.0152**	**0.0000**	**33.8809**	**33.8809**	**5.5800e-003**	**0.0000**	**34.0204**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-004	0.0210	5.6800e-003	5.0000e-005	1.2200e-003	1.0000e-004	1.3200e-003	3.5000e-004	9.0000e-005	4.5000e-004	0.0000	4.8071	4.8071	3.1000e-004	0.0000	4.8147
Worker	6.1500e-003	4.9600e-003	0.0549	1.5000e-004	0.0146	1.2000e-004	0.0147	3.8800e-003	1.1000e-004	3.9900e-003	0.0000	13.6146	13.6146	4.3000e-004	0.0000	13.6253
Total	**6.8500e-003**	**0.0259**	**0.0606**	**2.0000e-004**	**0.0158**	**2.2000e-004**	**0.0161**	**4.2300e-003**	**2.0000e-004**	**4.4400e-003**	**0.0000**	**18.4217**	**18.4217**	**7.4000e-004**	**0.0000**	**18.4400**

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	0.0396	0.2604	0.2754	4.2000e-004		0.0157	0.0157		0.0152	0.0152	0.0000	33.8809	33.8809	5.5800e-003	0.0000	34.0203
Total	**0.0396**	**0.2604**	**0.2754**	**4.2000e-004**		**0.0157**	**0.0157**		**0.0152**	**0.0152**	**0.0000**	**33.8809**	**33.8809**	**5.5800e-003**	**0.0000**	**34.0203**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0000e-004	0.0210	5.6800e-003	5.0000e-005	1.2200e-003	1.0000e-004	1.3200e-003	3.5000e-004	9.0000e-005	4.5000e-004	0.0000	4.8071	4.8071	3.1000e-004	0.0000	4.8147
Worker	6.1500e-003	4.9600e-003	0.0549	1.5000e-004	0.0146	1.2000e-004	0.0147	3.8800e-003	1.1000e-004	3.9900e-003	0.0000	13.6146	13.6146	4.3000e-004	0.0000	13.6253
Total	**6.8500e-003**	**0.0259**	**0.0606**	**2.0000e-004**	**0.0158**	**2.2000e-004**	**0.0161**	**4.2300e-003**	**2.0000e-004**	**4.4400e-003**	**0.0000**	**18.4217**	**18.4217**	**7.4000e-004**	**0.0000**	**18.4400**

3.6 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.7700e-003	0.0579	0.0590	9.0000e-005		3.2800e-003	3.2800e-003		3.0300e-003	3.0300e-003	0.0000	7.7529	7.7529	2.4600e-003	0.0000	7.8143
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.7700e-003**	**0.0579**	**0.0590**	**9.0000e-005**		**3.2800e-003**	**3.2800e-003**		**3.0300e-003**	**3.0300e-003**	**0.0000**	**7.7529**	**7.7529**	**2.4600e-003**	**0.0000**	**7.8143**

3.6 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	2.8000e-004	3.0900e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7660	0.7660	2.0000e-005	0.0000	0.7666
Total	**3.5000e-004**	**2.8000e-004**	**3.0900e-003**	**1.0000e-005**	**8.2000e-004**	**1.0000e-005**	**8.3000e-004**	**2.2000e-004**	**1.0000e-005**	**2.2000e-004**	**0.0000**	**0.7660**	**0.7660**	**2.0000e-005**	**0.0000**	**0.7666**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.7700e-003	0.0579	0.0590	9.0000e-005		3.2800e-003	3.2800e-003		3.0300e-003	3.0300e-003	0.0000	7.7529	7.7529	2.4600e-003	0.0000	7.8143
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**5.7700e-003**	**0.0579**	**0.0590**	**9.0000e-005**		**3.2800e-003**	**3.2800e-003**		**3.0300e-003**	**3.0300e-003**	**0.0000**	**7.7529**	**7.7529**	**2.4600e-003**	**0.0000**	**7.8143**

3.6 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	2.8000e-004	3.0900e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7660	0.7660	2.0000e-005	0.0000	0.7666
Total	**3.5000e-004**	**2.8000e-004**	**3.0900e-003**	**1.0000e-005**	**8.2000e-004**	**1.0000e-005**	**8.3000e-004**	**2.2000e-004**	**1.0000e-005**	**2.2000e-004**	**0.0000**	**0.7660**	**0.7660**	**2.0000e-005**	**0.0000**	**0.7666**

3.7 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2691					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2100e-003	8.4200e-003	9.1600e-003	1.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	1.2766	1.2766	1.0000e-004	0.0000	1.2791
Total	**0.2703**	**8.4200e-003**	**9.1600e-003**	**1.0000e-005**		**5.5000e-004**	**5.5000e-004**		**5.5000e-004**	**5.5000e-004**	**0.0000**	**1.2766**	**1.2766**	**1.0000e-004**	**0.0000**	**1.2791**

3.7 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.2000e-004	2.4700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6128	0.6128	2.0000e-005	0.0000	0.6133
Total	**2.8000e-004**	**2.2000e-004**	**2.4700e-003**	**1.0000e-005**	**6.6000e-004**	**1.0000e-005**	**6.6000e-004**	**1.7000e-004**	**1.0000e-005**	**1.8000e-004**	**0.0000**	**0.6128**	**0.6128**	**2.0000e-005**	**0.0000**	**0.6133**

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	0.2691					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.2100e-003	8.4200e-003	9.1600e-003	1.0000e-005		5.5000e-004	5.5000e-004		5.5000e-004	5.5000e-004	0.0000	1.2766	1.2766	1.0000e-004	0.0000	1.2791
Total	**0.2703**	**8.4200e-003**	**9.1600e-003**	**1.0000e-005**		**5.5000e-004**	**5.5000e-004**		**5.5000e-004**	**5.5000e-004**	**0.0000**	**1.2766**	**1.2766**	**1.0000e-004**	**0.0000**	**1.2791**

3.7 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.2000e-004	2.4700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6128	0.6128	2.0000e-005	0.0000	0.6133
Total	**2.8000e-004**	**2.2000e-004**	**2.4700e-003**	**1.0000e-005**	**6.6000e-004**	**1.0000e-005**	**6.6000e-004**	**1.7000e-004**	**1.0000e-005**	**1.8000e-004**	**0.0000**	**0.6128**	**0.6128**	**2.0000e-005**	**0.0000**	**0.6133**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1692	0.8466	2.1609	7.2500e-003	0.5754	6.2400e-003	0.5817	0.1543	5.8300e-003	0.1601	0.0000	669.1049	669.1049	0.0366	0.0000	670.0208
Unmitigated	0.1875	0.9718	2.6084	9.0100e-003	0.7250	7.7000e-003	0.7327	0.1943	7.1900e-003	0.2015	0.0000	831.7622	831.7622	0.0444	0.0000	832.8724

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	571.90	549.54	503.96	1,910,188	1,516,086
Total	571.90	549.54	503.96	1,910,188	1,516,086

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	110.8721	110.8721	4.5800e-003	9.5000e-004	111.2688
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	110.9257	110.9257	4.5800e-003	9.5000e-004	111.3225
NaturalGas Mitigated	6.2100e-003	0.0531	0.0226	3.4000e-004		4.2900e-003	4.2900e-003		4.2900e-003	4.2900e-003	0.0000	61.4789	61.4789	1.1800e-003	1.1300e-003	61.8442
NaturalGas Unmitigated	6.2100e-003	0.0531	0.0226	3.4000e-004		4.2900e-003	4.2900e-003		4.2900e-003	4.2900e-003	0.0000	61.4789	61.4789	1.1800e-003	1.1300e-003	61.8442

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.15207e+006	6.2100e-003	0.0531	0.0226	3.4000e-004		4.2900e-003	4.2900e-003		4.2900e-003	4.2900e-003	0.0000	61.4789	61.4789	1.1800e-003	1.1300e-003	61.8442
Total		**6.2100e-003**	**0.0531**	**0.0226**	**3.4000e-004**		**4.2900e-003**	**4.2900e-003**		**4.2900e-003**	**4.2900e-003**	**0.0000**	**61.4789**	**61.4789**	**1.1800e-003**	**1.1300e-003**	**61.8442**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.15207e+006	6.2100e-003	0.0531	0.0226	3.4000e-004		4.2900e-003	4.2900e-003		4.2900e-003	4.2900e-003	0.0000	61.4789	61.4789	1.1800e-003	1.1300e-003	61.8442
Total		**6.2100e-003**	**0.0531**	**0.0226**	**3.4000e-004**		**4.2900e-003**	**4.2900e-003**		**4.2900e-003**	**4.2900e-003**	**0.0000**	**61.4789**	**61.4789**	**1.1800e-003**	**1.1300e-003**	**61.8442**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	348143	110.9257	4.5800e-003	9.5000e-004	111.3225
Total		**110.9257**	**4.5800e-003**	**9.5000e-004**	**111.3225**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	347974	110.8721	4.5800e-003	9.5000e-004	111.2688
Total		**110.8721**	**4.5800e-003**	**9.5000e-004**	**111.2688**

6.0 Area Detail

6.1 Mitigation Measures Area

Artesia HO-O Zone Implementation - Area G - Los Angeles-South Coast County, Annual

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3404	0.0103	0.8888	5.0000e-005		4.9000e-003	4.9000e-003		4.9000e-003	4.9000e-003	0.0000	1.4487	1.4487	1.4000e-003	0.0000	1.4838
Unmitigated	0.3646	0.0103	0.8888	5.0000e-005		4.9000e-003	4.9000e-003		4.9000e-003	4.9000e-003	0.0000	1.4487	1.4487	1.4000e-003	0.0000	1.4838

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	0.0269					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3108					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0269	0.0103	0.8888	5.0000e-005		4.9000e-003	4.9000e-003		4.9000e-003	4.9000e-003	0.0000	1.4487	1.4487	1.4000e-003	0.0000	1.4838
Total	**0.3646**	**0.0103**	**0.8888**	**5.0000e-005**		**4.9000e-003**	**4.9000e-003**		**4.9000e-003**	**4.9000e-003**	**0.0000**	**1.4487**	**1.4487**	**1.4000e-003**	**0.0000**	**1.4838**

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	2.6900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3108					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0269	0.0103	0.8888	5.0000e-005		4.9000e-003	4.9000e-003		4.9000e-003	4.9000e-003	0.0000	1.4487	1.4487	1.4000e-003	0.0000	1.4838
Total	**0.3404**	**0.0103**	**0.8888**	**5.0000e-005**		**4.9000e-003**	**4.9000e-003**		**4.9000e-003**	**4.9000e-003**	**0.0000**	**1.4487**	**1.4487**	**1.4000e-003**	**0.0000**	**1.4838**

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	31.7612	0.1473	3.7100e-003	36.5491
Unmitigated	37.5288	0.1841	4.6200e-003	43.5060

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	5.60325 / 3.53248	37.5288	0.1841	4.6200e-003	43.5060
Total		**37.5288**	**0.1841**	**4.6200e-003**	**43.5060**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	4.4826 / 3.317	31.7612	0.1473	3.7100e-003	36.5491
Total		**31.7612**	**0.1473**	**3.7100e-003**	**36.5491**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	8.0303	0.4746	0.0000	19.8948
Unmitigated	8.0303	0.4746	0.0000	19.8948

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	39.56	8.0303	0.4746	0.0000	19.8948
Total		**8.0303**	**0.4746**	**0.0000**	**19.8948**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	39.56	8.0303	0.4746	0.0000	19.8948
Total		**8.0303**	**0.4746**	**0.0000**	**19.8948**

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	15.5760	0.0000	0.0000	15.5760

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	22	15.5760	0.0000	0.0000	15.5760
Total		**15.5760**	**0.0000**	**0.0000**	**15.5760**

Artesia HO-O Zone Implementation - Area G

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	86.00	Dwelling Unit	2.87	86,000.00	246

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction hypothesized to start in March 2020 for model purposes.
Project modeled to be operational in 2021.

Land Use - Combined Group E lot area less one fully-developed parcel of > 0.5 acre.
Dimensions - L.A. Co. Assessor.

Construction Phase - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment - Assumes no cut/fill. Terrain is flat.

Grading - Assumes no cut/fill. Terrain is flat.

Demolition - Extg bldg square footage obtained from L.A. Co. Assessor.

Off-road Equipment - Cranes anticipated to be used approx 14 days over 220-day consruction period.
14 days/220 days = 0.1 = fractional crane use over whole period.

Off-road Equipment - Defaults used.

Trips and VMT - Defaults used.

On-road Fugitive Dust - Defaults used.

Woodstoves - No fireplaces/woodstoves.

Consumer Products - Defaults used.

Area Coating - Defaults used.

Energy Use - Defaults used.

Water And Wastewater - Defaults used.

Solid Waste - Defaults used.

Land Use Change - No natural vegetation changes - area previously developed, urban.

Sequestration - Assumes 1/4 tree per unit.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Density overall increased from ~ 15/acre to 30/acre.

Area Mitigation - Zero VOC coatings indicated to be 5 g/l or less - used Dunn-Edwards "Everest" zero-VOC paint as example.

Energy Mitigation - Required PV installation per 2018 Title 24 Multifamily Residential on-site solar provision.
See Cal. Energy Comm, Residential Compliance Manual, December 2018, p. 7-1 for calculating PV system size.
Water Mitigation

Water Mitigation - Defaults used; assume Ti. 24 compliance for low-flow fixtures.

Artesia HO-O Zone Implementation - Area G - Los Angeles-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	5
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	5
tblFireplaces	NumberGas	73.10	0.00
tblFireplaces	NumberNoFireplace	8.60	86.00
tblFireplaces	NumberWood	4.30	0.00
tblLandUse	LotAcreage	2.26	2.87
tblOffRoadEquipment	UsageHours	8.00	0.10
tblSequestration	NumberOfNewTrees	0.00	22.00
tblWoodstoves	NumberCatalytic	4.30	0.00
tblWoodstoves	NumberNoncatalytic	4.30	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	2.4647	26.1378	16.2559	0.0346	6.6641	1.3001	7.7381	3.3971	1.2149	4.3851	0.0000	3,482.3342	3,482.3342	0.7711	0.0000	3,499.1570
2020	54.1098	13.2698	15.7737	0.0290	0.7506	0.7390	1.4896	0.2004	0.7166	0.9170	0.0000	2,715.5952	2,715.5952	0.5473	0.0000	2,723.7023
Maximum	**54.1098**	**26.1378**	**16.2559**	**0.0346**	**6.6641**	**1.3001**	**7.7381**	**3.3971**	**1.2149**	**4.3851**	**0.0000**	**3,482.3342**	**3,482.3342**	**0.7711**	**0.0000**	**3,499.1570**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	2.4647	26.1378	16.2559	0.0346	3.0603	1.3001	4.1343	1.5450	1.2149	2.5330	0.0000	3,482.3342	3,482.3342	0.7711	0.0000	3,499.1570
2020	54.1098	13.2698	15.7737	0.0290	0.7506	0.7390	1.4896	0.2004	0.7166	0.9170	0.0000	2,715.5952	2,715.5952	0.5473	0.0000	2,723.7023
Maximum	**54.1098**	**26.1378**	**16.2559**	**0.0346**	**3.0603**	**1.3001**	**4.1343**	**1.5450**	**1.2149**	**2.5330**	**0.0000**	**3,482.3342**	**3,482.3342**	**0.7711**	**0.0000**	**3,499.1570**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**48.60**	**0.00**	**39.05**	**51.48**	**0.00**	**34.93**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.0657	0.0821	7.1105	3.7000e-004		0.0392	0.0392		0.0392	0.0392	0.0000	12.7755	12.7755	0.0124	0.0000	13.0850
Energy	0.0340	0.2909	0.1238	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.3362	371.3362	7.1200e-003	6.8100e-003	373.5429
Mobile	1.1095	5.2241	15.2304	0.0525	4.1556	0.0433	4.1989	1.1122	0.0404	1.1525		5,341.2277	5,341.2277	0.2773		5,348.1613
Total	**3.2092**	**5.5970**	**22.4647**	**0.0548**	**4.1556**	**0.1060**	**4.2616**	**1.1122**	**0.1031**	**1.2153**	**0.0000**	**5,725.3395**	**5,725.3395**	**0.2968**	**6.8100e-003**	**5,734.7892**

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	1.9330	0.0821	7.1105	3.7000e-004		0.0392	0.0392		0.0392	0.0392	0.0000	12.7755	12.7755	0.0124	0.0000	13.0850
Energy	0.0340	0.2909	0.1238	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.3362	371.3362	7.1200e-003	6.8100e-003	373.5429
Mobile	1.0051	4.5727	12.5295	0.0423	3.2982	0.0351	3.3333	0.8827	0.0327	0.9154		4,296.9911	4,296.9911	0.2282		4,302.6952
Total	**2.9721**	**4.9457**	**19.7638**	**0.0445**	**3.2982**	**0.0978**	**3.3960**	**0.8827**	**0.0954**	**0.9781**	**0.0000**	**4,681.1028**	**4,681.1028**	**0.2477**	**6.8100e-003**	**4,689.3231**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**7.39**	**11.64**	**12.02**	**18.79**	**20.63**	**7.76**	**20.31**	**20.63**	**7.45**	**19.51**	**0.00**	**18.24**	**18.24**	**16.56**	**0.00**	**18.23**

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	3/19/2019	4/15/2019	5	20	
2	Site Preparation	Site Preparation	4/16/2019	4/18/2019	5	3	
3	Grading	Grading	4/19/2019	4/26/2019	5	6	
4	Building Construction	Building Construction	4/27/2019	2/28/2020	5	220	
5	Paving	Paving	2/29/2020	3/13/2020	5	10	
6	Architectural Coating	Architectural Coating	3/14/2020	3/27/2020	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 174,150; Residential Outdoor: 58,050; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Artesia HO-O Zone Implementation - Area G - Los Angeles-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	0.10	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Scrapers	1	8.00	367	0.48
Building Construction	Welders	3	8.00	46	0.45

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
Architectural Coating	1	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	62.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	223.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	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

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.4172	0.0000	2.4172	0.3660	0.0000	0.3660			0.0000			0.0000
Off-Road	2.2950	22.6751	14.8943	0.0241		1.2863	1.2863		1.2017	1.2017		2,360.7198	2,360.7198	0.6011		2,375.7475
Total	**2.2950**	**22.6751**	**14.8943**	**0.0241**	**2.4172**	**1.2863**	**3.7035**	**0.3660**	**1.2017**	**1.5677**		**2,360.7198**	**2,360.7198**	**0.6011**		**2,375.7475**

3.2 Demolition - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1048	3.4151	0.7281	8.9100e-003	0.1949	0.0125	0.2075	0.0534	0.0120	0.0654		963.9306	963.9306	0.0664		965.5902
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	0.0649	0.0477	0.6268	1.5800e-003	0.1453	1.2500e-003	0.1466	0.0385	1.1500e-003	0.0397		157.6839	157.6839	5.4200e-003		157.8193
Total	**0.1697**	**3.4628**	**1.3549**	**0.0105**	**0.3403**	**0.0138**	**0.3540**	**0.0920**	**0.0131**	**0.1051**		**1,121.6145**	**1,121.6145**	**0.0718**		**1,123.4095**

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					1.0877	0.0000	1.0877	0.1647	0.0000	0.1647			0.0000			0.0000
Off-Road	2.2950	22.6751	14.8943	0.0241		1.2863	1.2863		1.2017	1.2017	0.0000	2,360.7197	2,360.7197	0.6011		2,375.7475
Total	**2.2950**	**22.6751**	**14.8943**	**0.0241**	**1.0877**	**1.2863**	**2.3740**	**0.1647**	**1.2017**	**1.3664**	**0.0000**	**2,360.7197**	**2,360.7197**	**0.6011**		**2,375.7475**

3.2 Demolition - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1048	3.4151	0.7281	8.9100e-003	0.1949	0.0125	0.2075	0.0534	0.0120	0.0654		963.9306	963.9306	0.0664		965.5902
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	0.0649	0.0477	0.6268	1.5800e-003	0.1453	1.2500e-003	0.1466	0.0385	1.1500e-003	0.0397		157.6839	157.6839	5.4200e-003		157.8193
Total	**0.1697**	**3.4628**	**1.3549**	**0.0105**	**0.3403**	**0.0138**	**0.3540**	**0.0920**	**0.0131**	**0.1051**		**1,121.6145**	**1,121.6145**	**0.0718**		**1,123.4095**

3.3 Site Preparation - 2019

Unmitigated Construction On-Site

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

3.3 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0400	0.0294	0.3857	9.7000e-004	0.0894	7.7000e-004	0.0902	0.0237	7.1000e-004	0.0244		97.0362	97.0362	3.3300e-003		97.1196
Total	**0.0400**	**0.0294**	**0.3857**	**9.7000e-004**	**0.0894**	**7.7000e-004**	**0.0902**	**0.0237**	**7.1000e-004**	**0.0244**		**97.0362**	**97.0362**	**3.3300e-003**		**97.1196**

Mitigated Construction On-Site

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

3.3 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0400	0.0294	0.3857	9.7000e-004	0.0894	7.7000e-004	0.0902	0.0237	7.1000e-004	0.0244		97.0362	97.0362	3.3300e-003		97.1196
Total	**0.0400**	**0.0294**	**0.3857**	**9.7000e-004**	**0.0894**	**7.7000e-004**	**0.0902**	**0.0237**	**7.1000e-004**	**0.0244**		**97.0362**	**97.0362**	**3.3300e-003**		**97.1196**

3.4 Grading - 2019

Unmitigated Construction On-Site

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

3.4 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0500	0.0367	0.4822	1.2200e-003	0.1118	9.6000e-004	0.1127	0.0296	8.9000e-004	0.0305		121.2953	121.2953	4.1700e-003		121.3995
Total	**0.0500**	**0.0367**	**0.4822**	**1.2200e-003**	**0.1118**	**9.6000e-004**	**0.1127**	**0.0296**	**8.9000e-004**	**0.0305**		**121.2953**	**121.2953**	**4.1700e-003**		**121.3995**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9486	0.0000	2.9486	1.5154	0.0000	1.5154			0.0000			0.0000
Off-Road	2.0287	22.7444	10.1518	0.0206		1.0730	1.0730		0.9871	0.9871	0.0000	2,041.2539	2,041.2539	0.6458		2,057.3997
Total	**2.0287**	**22.7444**	**10.1518**	**0.0206**	**2.9486**	**1.0730**	**4.0215**	**1.5154**	**0.9871**	**2.5025**	**0.0000**	**2,041.2539**	**2,041.2539**	**0.6458**		**2,057.3997**

3.4 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0500	0.0367	0.4822	1.2200e-003	0.1118	9.6000e-004	0.1127	0.0296	8.9000e-004	0.0305		121.2953	121.2953	4.1700e-003		121.3995
Total	**0.0500**	**0.0367**	**0.4822**	**1.2200e-003**	**0.1118**	**9.6000e-004**	**0.1127**	**0.0296**	**8.9000e-004**	**0.0305**		**121.2953**	**121.2953**	**4.1700e-003**		**121.3995**

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0603	12.9784	12.9901	0.0193		0.8387	0.8387		0.8136	0.8136		1,748.0750	1,748.0750	0.3025		1,755.6384
Total	**2.0603**	**12.9784**	**12.9901**	**0.0193**		**0.8387**	**0.8387**		**0.8136**	**0.8136**		**1,748.0750**	**1,748.0750**	**0.3025**		**1,755.6384**

3.5 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0374	1.0416	0.2764	2.3500e-003	0.0576	6.6400e-003	0.0643	0.0166	6.3500e-003	0.0229		250.9332	250.9332	0.0161		251.3352
Worker	0.3097	0.2276	2.9894	7.5600e-003	0.6930	5.9800e-003	0.6990	0.1838	5.5100e-003	0.1893		752.0308	752.0308	0.0258		752.6766
Total	**0.3471**	**1.2692**	**3.2658**	**9.9100e-003**	**0.7506**	**0.0126**	**0.7633**	**0.2004**	**0.0119**	**0.2122**		**1,002.9640**	**1,002.9640**	**0.0419**		**1,004.0117**

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	2.0603	12.9784	12.9901	0.0193		0.8387	0.8387		0.8136	0.8136	0.0000	1,748.0750	1,748.0750	0.3025		1,755.6384
Total	**2.0603**	**12.9784**	**12.9901**	**0.0193**		**0.8387**	**0.8387**		**0.8136**	**0.8136**	**0.0000**	**1,748.0750**	**1,748.0750**	**0.3025**		**1,755.6384**

3.5 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0374	1.0416	0.2764	2.3500e-003	0.0576	6.6400e-003	0.0643	0.0166	6.3500e-003	0.0229		250.9332	250.9332	0.0161		251.3352
Worker	0.3097	0.2276	2.9894	7.5600e-003	0.6930	5.9800e-003	0.6990	0.1838	5.5100e-003	0.1893		752.0308	752.0308	0.0258		752.6766
Total	**0.3471**	**1.2692**	**3.2658**	**9.9100e-003**	**0.7506**	**0.0126**	**0.7633**	**0.2004**	**0.0119**	**0.2122**		**1,002.9640**	**1,002.9640**	**0.0419**		**1,004.0117**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8401	12.1095	12.8083	0.0193		0.7287	0.7287		0.7070	0.7070		1,737.0830	1,737.0830	0.2861		1,744.2350
Total	**1.8401**	**12.1095**	**12.8083**	**0.0193**		**0.7287**	**0.7287**		**0.7070**	**0.7070**		**1,737.0830**	**1,737.0830**	**0.2861**		**1,744.2350**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0320	0.9574	0.2508	2.3300e-003	0.0576	4.5100e-003	0.0621	0.0166	4.3100e-003	0.0209		249.3222	249.3222	0.0152		249.7026
Worker	0.2853	0.2030	2.7146	7.3200e-003	0.6930	5.7900e-003	0.6988	0.1838	5.3400e-003	0.1891		729.1900	729.1900	0.0230		729.7647
Total	**0.3173**	**1.1603**	**2.9655**	**9.6500e-003**	**0.7506**	**0.0103**	**0.7609**	**0.2004**	**9.6500e-003**	**0.2100**		**978.5122**	**978.5122**	**0.0382**		**979.4673**

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	1.8401	12.1095	12.8083	0.0193		0.7287	0.7287		0.7070	0.7070	0.0000	1,737.0830	1,737.0830	0.2861		1,744.2350
Total	**1.8401**	**12.1095**	**12.8083**	**0.0193**		**0.7287**	**0.7287**		**0.7070**	**0.7070**	**0.0000**	**1,737.0830**	**1,737.0830**	**0.2861**		**1,744.2350**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0320	0.9574	0.2508	2.3300e-003	0.0576	4.5100e-003	0.0621	0.0166	4.3100e-003	0.0209		249.3222	249.3222	0.0152		249.7026
Worker	0.2853	0.2030	2.7146	7.3200e-003	0.6930	5.7900e-003	0.6988	0.1838	5.3400e-003	0.1891		729.1900	729.1900	0.0230		729.7647
Total	**0.3173**	**1.1603**	**2.9655**	**9.6500e-003**	**0.7506**	**0.0103**	**0.7609**	**0.2004**	**9.6500e-003**	**0.2100**		**978.5122**	**978.5122**	**0.0382**		**979.4673**

3.6 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1547	11.5873	11.8076	0.0178		0.6565	0.6565		0.6051	0.6051		1,709.2180	1,709.2180	0.5417		1,722.7605
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1547**	**11.5873**	**11.8076**	**0.0178**		**0.6565**	**0.6565**		**0.6051**	**0.6051**		**1,709.2180**	**1,709.2180**	**0.5417**		**1,722.7605**

3.6 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0690	0.0491	0.6568	1.7700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		176.4169	176.4169	5.5600e-003		176.5560
Total	**0.0690**	**0.0491**	**0.6568**	**1.7700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**176.4169**	**176.4169**	**5.5600e-003**		**176.5560**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1547	11.5873	11.8076	0.0178		0.6565	0.6565		0.6051	0.6051	0.0000	1,709.2180	1,709.2180	0.5417		1,722.7605
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1547**	**11.5873**	**11.8076**	**0.0178**		**0.6565**	**0.6565**		**0.6051**	**0.6051**	**0.0000**	**1,709.2180**	**1,709.2180**	**0.5417**		**1,722.7605**

3.6 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0690	0.0491	0.6568	1.7700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		176.4169	176.4169	5.5600e-003		176.5560
Total	**0.0690**	**0.0491**	**0.6568**	**1.7700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**176.4169**	**176.4169**	**5.5600e-003**		**176.5560**

3.7 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	53.8124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	**54.0545**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**		**281.4481**	**281.4481**	**0.0218**		**281.9928**

3.7 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0552	0.0393	0.5254	1.4200e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		141.1335	141.1335	4.4500e-003		141.2448
Total	**0.0552**	**0.0393**	**0.5254**	**1.4200e-003**	**0.1341**	**1.1200e-003**	**0.1353**	**0.0356**	**1.0300e-003**	**0.0366**		**141.1335**	**141.1335**	**4.4500e-003**		**141.2448**

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	53.8124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	**54.0545**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**	**0.0000**	**281.4481**	**281.4481**	**0.0218**		**281.9928**

3.7 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0552	0.0393	0.5254	1.4200e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		141.1335	141.1335	4.4500e-003		141.2448
Total	**0.0552**	**0.0393**	**0.5254**	**1.4200e-003**	**0.1341**	**1.1200e-003**	**0.1353**	**0.0356**	**1.0300e-003**	**0.0366**		**141.1335**	**141.1335**	**4.4500e-003**		**141.2448**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.0051	4.5727	12.5295	0.0423	3.2982	0.0351	3.3333	0.8827	0.0327	0.9154		4,296.9911	4,296.9911	0.2282		4,302.6952
Unmitigated	1.1095	5.2241	15.2304	0.0525	4.1556	0.0433	4.1989	1.1122	0.0404	1.1525		5,341.2277	5,341.2277	0.2773		5,348.1613

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	571.90	549.54	503.96	1,910,188	1,516,086
Total	571.90	549.54	503.96	1,910,188	1,516,086

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0340	0.2909	0.1238	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.3362	371.3362	7.1200e-003	6.8100e-003	373.5429
NaturalGas Unmitigated	0.0340	0.2909	0.1238	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.3362	371.3362	7.1200e-003	6.8100e-003	373.5429

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	3156.36	0.0340	0.2909	0.1238	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.3362	371.3362	7.1200e-003	6.8100e-003	373.5429
Total		**0.0340**	**0.2909**	**0.1238**	**1.8600e-003**		**0.0235**	**0.0235**		**0.0235**	**0.0235**		**371.3362**	**371.3362**	**7.1200e-003**	**6.8100e-003**	**373.5429**

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 Mid Rise	3.15636	0.0340	0.2909	0.1238	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.3362	371.3362	7.1200e-003	6.8100e-003	373.5429
Total		**0.0340**	**0.2909**	**0.1238**	**1.8600e-003**		**0.0235**	**0.0235**		**0.0235**	**0.0235**		**371.3362**	**371.3362**	**7.1200e-003**	**6.8100e-003**	**373.5429**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.9330	0.0821	7.1105	3.7000e-004		0.0392	0.0392		0.0392	0.0392	0.0000	12.7755	12.7755	0.0124	0.0000	13.0850
Unmitigated	2.0657	0.0821	7.1105	3.7000e-004		0.0392	0.0392		0.0392	0.0392	0.0000	12.7755	12.7755	0.0124	0.0000	13.0850

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	0.1474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.7028					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2154	0.0821	7.1105	3.7000e-004		0.0392	0.0392		0.0392	0.0392		12.7755	12.7755	0.0124		13.0850
Total	**2.0657**	**0.0821**	**7.1105**	**3.7000e-004**		**0.0392**	**0.0392**		**0.0392**	**0.0392**	**0.0000**	**12.7755**	**12.7755**	**0.0124**	**0.0000**	**13.0850**

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	0.0147					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.7028					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2154	0.0821	7.1105	3.7000e-004		0.0392	0.0392		0.0392	0.0392		12.7755	12.7755	0.0124		13.0850
Total	**1.9330**	**0.0821**	**7.1105**	**3.7000e-004**		**0.0392**	**0.0392**		**0.0392**	**0.0392**	**0.0000**	**12.7755**	**12.7755**	**0.0124**	**0.0000**	**13.0850**

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

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Artesia HO-O Zone Implementation - Area G

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Mid Rise	86.00	Dwelling Unit	2.87	86,000.00	246

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction hypothesized to start in March 2020 for model purposes.
Project modeled to be operational in 2021.

Land Use - Combined Group E lot area less one fully-developed parcel of > 0.5 acre.
Dimensions - L.A. Co. Assessor.

Construction Phase - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment - Defaults used.

Off-road Equipment - Assumes no cut/fill. Terrain is flat.

Grading - Assumes no cut/fill. Terrain is flat.

Demolition - Extg bldg square footage obtained from L.A. Co. Assessor.

Off-road Equipment - Cranes anticipated to be used approx 14 days over 220-day consruction period.
14 days/220 days = 0.1 = fractional crane use over whole period.

Off-road Equipment - Defaults used.

Trips and VMT - Defaults used.

On-road Fugitive Dust - Defaults used.

Woodstoves - No fireplaces/woodstoves.

Consumer Products - Defaults used.

Area Coating - Defaults used.

Energy Use - Defaults used.

Water And Wastewater - Defaults used.

Solid Waste - Defaults used.

Land Use Change - No natural vegetation changes - area previously developed, urban.

Sequestration - Assumes 1/4 tree per unit.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Density overall increased from ~ 15/acre to 30/acre.

Area Mitigation - Zero VOC coatings indicated to be 5 g/l or less - used Dunn-Edwards "Everest" zero-VOC paint as example.

Energy Mitigation - Required PV installation per 2018 Title 24 Multifamily Residential on-site solar provision.
See Cal. Energy Comm, Residential Compliance Manual, December 2018, p. 7-1 for calculating PV system size.
Water Mitigation

Water Mitigation - Defaults used; assume Ti. 24 compliance for low-flow fixtures.

Artesia HO-O Zone Implementation - Area G - Los Angeles-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	50	5
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	50	5
tblFireplaces	NumberGas	73.10	0.00
tblFireplaces	NumberNoFireplace	8.60	86.00
tblFireplaces	NumberWood	4.30	0.00
tblLandUse	LotAcreage	2.26	2.87
tblOffRoadEquipment	UsageHours	8.00	0.10
tblSequestration	NumberOfNewTrees	0.00	22.00
tblWoodstoves	NumberCatalytic	4.30	0.00
tblWoodstoves	NumberNoncatalytic	4.30	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	2.4744	26.1885	16.2469	0.0344	6.6641	1.3003	7.7381	3.3971	1.2151	4.3851	0.0000	3,456.7792	3,456.7792	0.7709	0.0000	3,473.6574
2020	54.1159	13.2914	15.5712	0.0285	0.7506	0.7391	1.4897	0.2004	0.7167	0.9171	0.0000	2,666.1878	2,666.1878	0.5469	0.0000	2,674.2862
Maximum	**54.1159**	**26.1885**	**16.2469**	**0.0344**	**6.6641**	**1.3003**	**7.7381**	**3.3971**	**1.2151**	**4.3851**	**0.0000**	**3,456.7792**	**3,456.7792**	**0.7709**	**0.0000**	**3,473.6574**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	2.4744	26.1885	16.2469	0.0344	3.0603	1.3003	4.1343	1.5450	1.2151	2.5330	0.0000	3,456.7791	3,456.7791	0.7709	0.0000	3,473.6574
2020	54.1159	13.2914	15.5712	0.0285	0.7506	0.7391	1.4897	0.2004	0.7167	0.9171	0.0000	2,666.1878	2,666.1878	0.5469	0.0000	2,674.2862
Maximum	**54.1159**	**26.1885**	**16.2469**	**0.0344**	**3.0603**	**1.3003**	**4.1343**	**1.5450**	**1.2151**	**2.5330**	**0.0000**	**3,456.7791**	**3,456.7791**	**0.7709**	**0.0000**	**3,473.6574**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**48.60**	**0.00**	**39.05**	**51.48**	**0.00**	**34.93**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.0657	0.0821	7.1105	3.7000e-004		0.0392	0.0392		0.0392	0.0392	0.0000	12.7755	12.7755	0.0124	0.0000	13.0850
Energy	0.0340	0.2909	0.1238	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.3362	371.3362	7.1200e-003	6.8100e-003	373.5429
Mobile	1.0781	5.3619	14.4522	0.0500	4.1556	0.0435	4.1991	1.1122	0.0406	1.1528		5,082.7516	5,082.7516	0.2761		5,089.6542
Total	**3.1778**	**5.7349**	**21.6865**	**0.0522**	**4.1556**	**0.1062**	**4.2618**	**1.1122**	**0.1033**	**1.2155**	**0.0000**	**5,466.8633**	**5,466.8633**	**0.2956**	**6.8100e-003**	**5,476.2821**

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	1.9330	0.0821	7.1105	3.7000e-004		0.0392	0.0392		0.0392	0.0392	0.0000	12.7755	12.7755	0.0124	0.0000	13.0850
Energy	0.0340	0.2909	0.1238	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.3362	371.3362	7.1200e-003	6.8100e-003	373.5429
Mobile	0.9762	4.6722	12.0021	0.0402	3.2982	0.0353	3.3335	0.8827	0.0329	0.9156		4,086.5364	4,086.5364	0.2282		4,092.2422
Total	**2.9433**	**5.0452**	**19.2364**	**0.0424**	**3.2982**	**0.0980**	**3.3962**	**0.8827**	**0.0957**	**0.9784**	**0.0000**	**4,470.6481**	**4,470.6481**	**0.2477**	**6.8100e-003**	**4,478.8701**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**7.38**	**12.03**	**11.30**	**18.78**	**20.63**	**7.74**	**20.31**	**20.63**	**7.43**	**19.51**	**0.00**	**18.22**	**18.22**	**16.19**	**0.00**	**18.21**

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	3/19/2019	4/15/2019	5	20	
2	Site Preparation	Site Preparation	4/16/2019	4/18/2019	5	3	
3	Grading	Grading	4/19/2019	4/26/2019	5	6	
4	Building Construction	Building Construction	4/27/2019	2/28/2020	5	220	
5	Paving	Paving	2/29/2020	3/13/2020	5	10	
6	Architectural Coating	Architectural Coating	3/14/2020	3/27/2020	5	10	

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 174,150; Residential Outdoor: 58,050; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Artesia HO-O Zone Implementation - Area G - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	0.10	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Site Preparation	Scrapers	1	8.00	367	0.48
Building Construction	Welders	3	8.00	46	0.45

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
Architectural Coating	1	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	62.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	223.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	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

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.4172	0.0000	2.4172	0.3660	0.0000	0.3660			0.0000			0.0000
Off-Road	2.2950	22.6751	14.8943	0.0241		1.2863	1.2863		1.2017	1.2017		2,360.7198	2,360.7198	0.6011		2,375.7475
Total	**2.2950**	**22.6751**	**14.8943**	**0.0241**	**2.4172**	**1.2863**	**3.7035**	**0.3660**	**1.2017**	**1.5677**		**2,360.7198**	**2,360.7198**	**0.6011**		**2,375.7475**

3.2 Demolition - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1074	3.4606	0.7773	8.7600e-003	0.1949	0.0128	0.2077	0.0534	0.0122	0.0657		947.5824	947.5824	0.0689		949.3053
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	0.0720	0.0529	0.5752	1.4900e-003	0.1453	1.2500e-003	0.1466	0.0385	1.1500e-003	0.0397		148.4770	148.4770	5.1100e-003		148.6047
Total	**0.1794**	**3.5135**	**1.3526**	**0.0103**	**0.3403**	**0.0140**	**0.3543**	**0.0920**	**0.0134**	**0.1053**		**1,096.0594**	**1,096.0594**	**0.0740**		**1,097.9100**

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					1.0877	0.0000	1.0877	0.1647	0.0000	0.1647			0.0000			0.0000
Off-Road	2.2950	22.6751	14.8943	0.0241		1.2863	1.2863		1.2017	1.2017	0.0000	2,360.7197	2,360.7197	0.6011		2,375.7475
Total	**2.2950**	**22.6751**	**14.8943**	**0.0241**	**1.0877**	**1.2863**	**2.3740**	**0.1647**	**1.2017**	**1.3664**	**0.0000**	**2,360.7197**	**2,360.7197**	**0.6011**		**2,375.7475**

3.2 Demolition - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1074	3.4606	0.7773	8.7600e-003	0.1949	0.0128	0.2077	0.0534	0.0122	0.0657		947.5824	947.5824	0.0689		949.3053
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	0.0720	0.0529	0.5752	1.4900e-003	0.1453	1.2500e-003	0.1466	0.0385	1.1500e-003	0.0397		148.4770	148.4770	5.1100e-003		148.6047
Total	**0.1794**	**3.5135**	**1.3526**	**0.0103**	**0.3403**	**0.0140**	**0.3543**	**0.0920**	**0.0134**	**0.1053**		**1,096.0594**	**1,096.0594**	**0.0740**		**1,097.9100**

3.3 Site Preparation - 2019

Unmitigated Construction On-Site

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

3.3 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0443	0.0325	0.3540	9.2000e-004	0.0894	7.7000e-004	0.0902	0.0237	7.1000e-004	0.0244		91.3705	91.3705	3.1400e-003		91.4491
Total	**0.0443**	**0.0325**	**0.3540**	**9.2000e-004**	**0.0894**	**7.7000e-004**	**0.0902**	**0.0237**	**7.1000e-004**	**0.0244**		**91.3705**	**91.3705**	**3.1400e-003**		**91.4491**

Mitigated Construction On-Site

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

3.3 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0443	0.0325	0.3540	9.2000e-004	0.0894	7.7000e-004	0.0902	0.0237	7.1000e-004	0.0244		91.3705	91.3705	3.1400e-003		91.4491
Total	**0.0443**	**0.0325**	**0.3540**	**9.2000e-004**	**0.0894**	**7.7000e-004**	**0.0902**	**0.0237**	**7.1000e-004**	**0.0244**		**91.3705**	**91.3705**	**3.1400e-003**		**91.4491**

3.4 Grading - 2019

Unmitigated Construction On-Site

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

3.4 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0554	0.0407	0.4425	1.1500e-003	0.1118	9.6000e-004	0.1127	0.0296	8.9000e-004	0.0305		114.2131	114.2131	3.9300e-003		114.3113
Total	**0.0554**	**0.0407**	**0.4425**	**1.1500e-003**	**0.1118**	**9.6000e-004**	**0.1127**	**0.0296**	**8.9000e-004**	**0.0305**		**114.2131**	**114.2131**	**3.9300e-003**		**114.3113**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.9486	0.0000	2.9486	1.5154	0.0000	1.5154			0.0000			0.0000
Off-Road	2.0287	22.7444	10.1518	0.0206		1.0730	1.0730		0.9871	0.9871	0.0000	2,041.2539	2,041.2539	0.6458		2,057.3997
Total	**2.0287**	**22.7444**	**10.1518**	**0.0206**	**2.9486**	**1.0730**	**4.0215**	**1.5154**	**0.9871**	**2.5025**	**0.0000**	**2,041.2539**	**2,041.2539**	**0.6458**		**2,057.3997**

3.4 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0554	0.0407	0.4425	1.1500e-003	0.1118	9.6000e-004	0.1127	0.0296	8.9000e-004	0.0305		114.2131	114.2131	3.9300e-003		114.3113
Total	**0.0554**	**0.0407**	**0.4425**	**1.1500e-003**	**0.1118**	**9.6000e-004**	**0.1127**	**0.0296**	**8.9000e-004**	**0.0305**		**114.2131**	**114.2131**	**3.9300e-003**		**114.3113**

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.0603	12.9784	12.9901	0.0193		0.8387	0.8387		0.8136	0.8136		1,748.0750	1,748.0750	0.3025		1,755.6384
Total	**2.0603**	**12.9784**	**12.9901**	**0.0193**		**0.8387**	**0.8387**		**0.8136**	**0.8136**		**1,748.0750**	**1,748.0750**	**0.3025**		**1,755.6384**

3.5 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0390	1.0430	0.3046	2.2900e-003	0.0576	6.7500e-003	0.0644	0.0166	6.4600e-003	0.0231		244.1494	244.1494	0.0172		244.5782
Worker	0.3433	0.2521	2.7434	7.1100e-003	0.6930	5.9800e-003	0.6990	0.1838	5.5100e-003	0.1893		708.1211	708.1211	0.0244		708.7301
Total	**0.3823**	**1.2951**	**3.0480**	**9.4000e-003**	**0.7506**	**0.0127**	**0.7634**	**0.2004**	**0.0120**	**0.2124**		**952.2705**	**952.2705**	**0.0415**		**953.3083**

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	2.0603	12.9784	12.9901	0.0193		0.8387	0.8387		0.8136	0.8136	0.0000	1,748.0750	1,748.0750	0.3025		1,755.6384
Total	**2.0603**	**12.9784**	**12.9901**	**0.0193**		**0.8387**	**0.8387**		**0.8136**	**0.8136**	**0.0000**	**1,748.0750**	**1,748.0750**	**0.3025**		**1,755.6384**

3.5 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0390	1.0430	0.3046	2.2900e-003	0.0576	6.7500e-003	0.0644	0.0166	6.4600e-003	0.0231		244.1494	244.1494	0.0172		244.5782
Worker	0.3433	0.2521	2.7434	7.1100e-003	0.6930	5.9800e-003	0.6990	0.1838	5.5100e-003	0.1893		708.1211	708.1211	0.0244		708.7301
Total	**0.3823**	**1.2951**	**3.0480**	**9.4000e-003**	**0.7506**	**0.0127**	**0.7634**	**0.2004**	**0.0120**	**0.2124**		**952.2705**	**952.2705**	**0.0415**		**953.3083**

3.5 Building Construction - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8401	12.1095	12.8083	0.0193		0.7287	0.7287		0.7070	0.7070		1,737.0830	1,737.0830	0.2861		1,744.2350
Total	**1.8401**	**12.1095**	**12.8083**	**0.0193**		**0.7287**	**0.7287**		**0.7070**	**0.7070**		**1,737.0830**	**1,737.0830**	**0.2861**		**1,744.2350**

3.5 Building Construction - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0335	0.9572	0.2767	2.2700e-003	0.0576	4.5800e-003	0.0622	0.0166	4.3800e-003	0.0210		242.5042	242.5042	0.0162		242.9096
Worker	0.3168	0.2247	2.4863	6.8900e-003	0.6930	5.7900e-003	0.6988	0.1838	5.3400e-003	0.1891		686.6006	686.6006	0.0216		687.1417
Total	**0.3503**	**1.1819**	**2.7629**	**9.1600e-003**	**0.7506**	**0.0104**	**0.7610**	**0.2004**	**9.7200e-003**	**0.2101**		**929.1048**	**929.1048**	**0.0379**		**930.0512**

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	1.8401	12.1095	12.8083	0.0193		0.7287	0.7287		0.7070	0.7070	0.0000	1,737.0830	1,737.0830	0.2861		1,744.2350
Total	**1.8401**	**12.1095**	**12.8083**	**0.0193**		**0.7287**	**0.7287**		**0.7070**	**0.7070**	**0.0000**	**1,737.0830**	**1,737.0830**	**0.2861**		**1,744.2350**

3.5 Building Construction - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0335	0.9572	0.2767	2.2700e-003	0.0576	4.5800e-003	0.0622	0.0166	4.3800e-003	0.0210		242.5042	242.5042	0.0162		242.9096
Worker	0.3168	0.2247	2.4863	6.8900e-003	0.6930	5.7900e-003	0.6988	0.1838	5.3400e-003	0.1891		686.6006	686.6006	0.0216		687.1417
Total	**0.3503**	**1.1819**	**2.7629**	**9.1600e-003**	**0.7506**	**0.0104**	**0.7610**	**0.2004**	**9.7200e-003**	**0.2101**		**929.1048**	**929.1048**	**0.0379**		**930.0512**

3.6 Paving - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1547	11.5873	11.8076	0.0178		0.6565	0.6565		0.6051	0.6051		1,709.2180	1,709.2180	0.5417		1,722.7605
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1547**	**11.5873**	**11.8076**	**0.0178**		**0.6565**	**0.6565**		**0.6051**	**0.6051**		**1,709.2180**	**1,709.2180**	**0.5417**		**1,722.7605**

3.6 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0767	0.0544	0.6015	1.6700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		166.1131	166.1131	5.2400e-003		166.2440
Total	**0.0767**	**0.0544**	**0.6015**	**1.6700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**166.1131**	**166.1131**	**5.2400e-003**		**166.2440**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1547	11.5873	11.8076	0.0178		0.6565	0.6565		0.6051	0.6051	0.0000	1,709.2180	1,709.2180	0.5417		1,722.7605
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.1547**	**11.5873**	**11.8076**	**0.0178**		**0.6565**	**0.6565**		**0.6051**	**0.6051**	**0.0000**	**1,709.2180**	**1,709.2180**	**0.5417**		**1,722.7605**

3.6 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0767	0.0544	0.6015	1.6700e-003	0.1677	1.4000e-003	0.1691	0.0445	1.2900e-003	0.0458		166.1131	166.1131	5.2400e-003		166.2440
Total	**0.0767**	**0.0544**	**0.6015**	**1.6700e-003**	**0.1677**	**1.4000e-003**	**0.1691**	**0.0445**	**1.2900e-003**	**0.0458**		**166.1131**	**166.1131**	**5.2400e-003**		**166.2440**

3.7 Architectural Coating - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	53.8124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	**54.0545**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**		**281.4481**	**281.4481**	**0.0218**		**281.9928**

3.7 Architectural Coating - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0613	0.0435	0.4812	1.3300e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		132.8905	132.8905	4.1900e-003		132.9952
Total	**0.0613**	**0.0435**	**0.4812**	**1.3300e-003**	**0.1341**	**1.1200e-003**	**0.1353**	**0.0356**	**1.0300e-003**	**0.0366**		**132.8905**	**132.8905**	**4.1900e-003**		**132.9952**

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	53.8124					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	**54.0545**	**1.6838**	**1.8314**	**2.9700e-003**		**0.1109**	**0.1109**		**0.1109**	**0.1109**	**0.0000**	**281.4481**	**281.4481**	**0.0218**		**281.9928**

3.7 Architectural Coating - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0613	0.0435	0.4812	1.3300e-003	0.1341	1.1200e-003	0.1353	0.0356	1.0300e-003	0.0366		132.8905	132.8905	4.1900e-003		132.9952
Total	**0.0613**	**0.0435**	**0.4812**	**1.3300e-003**	**0.1341**	**1.1200e-003**	**0.1353**	**0.0356**	**1.0300e-003**	**0.0366**		**132.8905**	**132.8905**	**4.1900e-003**		**132.9952**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Density

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.9762	4.6722	12.0021	0.0402	3.2982	0.0353	3.3335	0.8827	0.0329	0.9156		4,086.5364	4,086.5364	0.2282		4,092.2422
Unmitigated	1.0781	5.3619	14.4522	0.0500	4.1556	0.0435	4.1991	1.1122	0.0406	1.1528		5,082.7516	5,082.7516	0.2761		5,089.6542

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	571.90	549.54	503.96	1,910,188	1,516,086
Total	571.90	549.54	503.96	1,910,188	1,516,086

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0340	0.2909	0.1238	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.3362	371.3362	7.1200e-003	6.8100e-003	373.5429
NaturalGas Unmitigated	0.0340	0.2909	0.1238	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.3362	371.3362	7.1200e-003	6.8100e-003	373.5429

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	3156.36	0.0340	0.2909	0.1238	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.3362	371.3362	7.1200e-003	6.8100e-003	373.5429
Total		**0.0340**	**0.2909**	**0.1238**	**1.8600e-003**		**0.0235**	**0.0235**		**0.0235**	**0.0235**		**371.3362**	**371.3362**	**7.1200e-003**	**6.8100e-003**	**373.5429**

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 Mid Rise	3.15636	0.0340	0.2909	0.1238	1.8600e-003		0.0235	0.0235		0.0235	0.0235		371.3362	371.3362	7.1200e-003	6.8100e-003	373.5429
Total		**0.0340**	**0.2909**	**0.1238**	**1.8600e-003**		**0.0235**	**0.0235**		**0.0235**	**0.0235**		**371.3362**	**371.3362**	**7.1200e-003**	**6.8100e-003**	**373.5429**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.9330	0.0821	7.1105	3.7000e-004		0.0392	0.0392		0.0392	0.0392	0.0000	12.7755	12.7755	0.0124	0.0000	13.0850
Unmitigated	2.0657	0.0821	7.1105	3.7000e-004		0.0392	0.0392		0.0392	0.0392	0.0000	12.7755	12.7755	0.0124	0.0000	13.0850

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	0.1474					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.7028					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2154	0.0821	7.1105	3.7000e-004		0.0392	0.0392		0.0392	0.0392		12.7755	12.7755	0.0124		13.0850
Total	**2.0657**	**0.0821**	**7.1105**	**3.7000e-004**		**0.0392**	**0.0392**		**0.0392**	**0.0392**	**0.0000**	**12.7755**	**12.7755**	**0.0124**	**0.0000**	**13.0850**

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	0.0147					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.7028					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.2154	0.0821	7.1105	3.7000e-004		0.0392	0.0392		0.0392	0.0392		12.7755	12.7755	0.0124		13.0850
Total	**1.9330**	**0.0821**	**7.1105**	**3.7000e-004**		**0.0392**	**0.0392**		**0.0392**	**0.0392**	**0.0000**	**12.7755**	**12.7755**	**0.0124**	**0.0000**	**13.0850**

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

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Artesia HO-O Zone Implementation - Area G

Los Angeles-South Coast County, Mitigation Report

Construction Mitigation Summary

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

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	1	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	2	No Change	0.00
Graders	Diesel	No Change	0	2	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	8	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	1	No Change	0.00
Scrapers	Diesel	No Change	0	1	No Change	0.00
Welders	Diesel	No Change	0	3	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Air Compressors	1.21000E-003	8.42000E-003	9.16000E-003	1.00000E-005	5.50000E-004	5.50000E-004	0.00000E+000	1.27663E+000	1.27663E+000	1.00000E-004	0.00000E+000	1.27910E+000
Cement and Mortar Mixers	2.90000E-004	1.84000E-003	1.54000E-003	0.00000E+000	7.00000E-005	7.00000E-005	0.00000E+000	2.29140E-001	2.29140E-001	2.00000E-005	0.00000E+000	2.29730E-001
Concrete/Industrial Saws	4.62000E-003	3.58900E-002	3.70200E-002	6.00000E-005	2.29000E-003	2.29000E-003	0.00000E+000	5.37657E+000	5.37657E+000	3.80000E-004	0.00000E+000	5.38603E+000
Cranes	6.80000E-004	8.09000E-003	3.11000E-003	1.00000E-005	3.40000E-004	3.10000E-004	0.00000E+000	7.09490E-001	7.09490E-001	2.30000E-004	0.00000E+000	7.15120E-001
Forklifts	3.01900E-002	2.70030E-001	2.29360E-001	2.90000E-004	2.07700E-002	1.91100E-002	0.00000E+000	2.63133E+001	2.63133E+001	8.36000E-003	0.00000E+000	2.65223E+001
Generator Sets	4.78700E-002	4.09130E-001	4.09160E-001	7.20000E-004	2.42100E-002	2.42100E-002	0.00000E+000	6.21728E+001	6.21728E+001	3.85000E-003	0.00000E+000	6.22691E+001
Graders	2.19000E-003	2.96100E-002	8.27000E-003	3.00000E-005	9.50000E-004	8.70000E-004	0.00000E+000	2.68465E+000	2.68465E+000	8.50000E-004	0.00000E+000	2.70589E+000
Pavers	1.31000E-003	1.40500E-002	1.44900E-002	2.00000E-005	6.80000E-004	6.30000E-004	0.00000E+000	2.06508E+000	2.06508E+000	6.70000E-004	0.00000E+000	2.08178E+000
Paving Equipment	1.04000E-003	1.07100E-002	1.26700E-002	2.00000E-005	5.40000E-004	4.90000E-004	0.00000E+000	1.78955E+000	1.78955E+000	5.80000E-004	0.00000E+000	1.80402E+000
Rollers	2.08000E-003	2.08100E-002	1.89300E-002	3.00000E-005	1.33000E-003	1.22000E-003	0.00000E+000	2.30485E+000	2.30485E+000	7.50000E-004	0.00000E+000	2.32349E+000
Rubber Tired Dozers	1.47500E-002	1.56970E-001	5.56900E-002	1.10000E-004	7.65000E-003	7.04000E-003	0.00000E+000	9.97048E+000	9.97048E+000	3.15000E-003	0.00000E+000	1.00493E+001
Scrapers	1.60000E-003	1.93700E-002	1.20900E-002	2.00000E-005	7.60000E-004	7.00000E-004	0.00000E+000	2.04091E+000	2.04091E+000	6.50000E-004	0.00000E+000	2.05706E+000
Tractors/Loaders/Backhoes	2.83900E-002	2.85070E-001	2.85190E-001	3.90000E-004	1.88700E-002	1.73600E-002	0.00000E+000	3.44833E+001	3.44833E+001	1.09500E-002	0.00000E+000	3.47571E+001
Welders	1.24330E-001	5.32590E-001	5.93780E-001	8.40000E-004	3.20700E-002	3.20700E-002	0.00000E+000	6.21128E+001	6.21128E+001	1.01500E-002	0.00000E+000	6.23665E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Mitigated tons/yr						Mitigated mt/yr					
Air Compressors	1.21000E-003	8.42000E-003	9.16000E-003	1.00000E-005	5.50000E-004	5.50000E-004	0.00000E+000	1.27663E+000	1.27663E+000	1.00000E-004	0.00000E+000	1.27910E+000
Cement and Mortar Mixers	2.90000E-004	1.84000E-003	1.54000E-003	0.00000E+000	7.00000E-005	7.00000E-005	0.00000E+000	2.29140E-001	2.29140E-001	2.00000E-005	0.00000E+000	2.29730E-001
Concrete/Industrial Saws	4.62000E-003	3.58900E-002	3.70200E-002	6.00000E-005	2.29000E-003	2.29000E-003	0.00000E+000	5.37657E+000	5.37657E+000	3.80000E-004	0.00000E+000	5.38603E+000
Cranes	6.80000E-004	8.09000E-003	3.11000E-003	1.00000E-005	3.40000E-004	3.10000E-004	0.00000E+000	7.09490E-001	7.09490E-001	2.30000E-004	0.00000E+000	7.15120E-001
Forklifts	3.01900E-002	2.70030E-001	2.29360E-001	2.90000E-004	2.07700E-002	1.91100E-002	0.00000E+000	2.63132E+001	2.63132E+001	8.36000E-003	0.00000E+000	2.65223E+001
Generator Sets	4.78700E-002	4.09130E-001	4.09160E-001	7.20000E-004	2.42100E-002	2.42100E-002	0.00000E+000	6.21728E+001	6.21728E+001	3.85000E-003	0.00000E+000	6.22691E+001
Graders	2.19000E-003	2.96100E-002	8.27000E-003	3.00000E-005	9.50000E-004	8.70000E-004	0.00000E+000	2.68465E+000	2.68465E+000	8.50000E-004	0.00000E+000	2.70588E+000
Pavers	1.31000E-003	1.40500E-002	1.44900E-002	2.00000E-005	6.80000E-004	6.30000E-004	0.00000E+000	2.06508E+000	2.06508E+000	6.70000E-004	0.00000E+000	2.08177E+000
Paving Equipment	1.04000E-003	1.07100E-002	1.26700E-002	2.00000E-005	5.40000E-004	4.90000E-004	0.00000E+000	1.78955E+000	1.78955E+000	5.80000E-004	0.00000E+000	1.80402E+000
Rollers	2.08000E-003	2.08100E-002	1.89300E-002	3.00000E-005	1.33000E-003	1.22000E-003	0.00000E+000	2.30485E+000	2.30485E+000	7.50000E-004	0.00000E+000	2.32349E+000
Rubber Tired Dozers	1.47500E-002	1.56970E-001	5.56900E-002	1.10000E-004	7.65000E-003	7.04000E-003	0.00000E+000	9.97047E+000	9.97047E+000	3.15000E-003	0.00000E+000	1.00493E+001
Scrapers	1.60000E-003	1.93700E-002	1.20900E-002	2.00000E-005	7.60000E-004	7.00000E-004	0.00000E+000	2.04091E+000	2.04091E+000	6.50000E-004	0.00000E+000	2.05705E+000
Tractors/Loaders/Backhoes	2.83900E-002	2.85070E-001	2.85190E-001	3.90000E-004	1.88700E-002	1.73600E-002	0.00000E+000	3.44833E+001	3.44833E+001	1.09500E-002	0.00000E+000	3.47570E+001
Welders	1.24330E-001	5.32590E-001	5.93780E-001	8.40000E-004	3.20700E-002	3.20700E-002	0.00000E+000	6.21127E+001	6.21127E+001	1.01500E-002	0.00000E+000	6.23664E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14011E-006	1.14011E-006	0.00000E+000	0.00000E+000	1.13112E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.12589E-006	1.12589E-006	0.00000E+000	0.00000E+000	1.12415E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	3.69564E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	4.80358E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.00296E-006	1.00296E-006	0.00000E+000	0.00000E+000	9.95090E-007
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	4.86131E-006
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15998E-006	1.15998E-006	0.00000E+000	0.00000E+000	1.15085E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.28798E-006	1.28798E-006	0.00000E+000	0.00000E+000	1.12240E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input		Mitigation Input		Mitigation Input	
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day)	2.00

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

		Unmitigated		Mitigated		Percent Reduction	
Phase	Source	PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.08	0.02	0.08	0.02	0.00	0.00
Demolition	Fugitive Dust	0.02	0.00	0.01	0.00	0.55	0.55
Demolition	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Grading	Fugitive Dust	0.02	0.01	0.01	0.00	0.55	0.55
Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.00	0.00	0.00	0.00	0.55	0.54
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	90.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.00	0.00	0.05
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	9.74	12.89	17.16	19.53	18.96	18.92	0.00	19.56	19.56	17.50	0.00	19.55
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	15.14	15.37	19.96	19.70	15.99
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting: Urban

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
Yes	Land Use	Increase Density	0.00	30.00		
No	Land Use	Increase Diversity	-0.01	0.13		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.21			

No	Neighborhood Enhancements	Improve Pedestrian Network				
No	Neighborhood Enhancements	Provide Traffic Calming Measures				
No	Neighborhood Enhancements	Implement NEV Network	0.00			
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00			
No	Parking Policy Pricing	Limit Parking Supply	0.00			
No	Parking Policy Pricing	Unbundle Parking Costs	0.00			
No	Parking Policy Pricing	On-street Market Pricing	0.00			
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00			
No	Transit Improvements	Provide BRT System	0.00			
No	Transit Improvements	Expand Transit Network	0.00			
No	Transit Improvements	Increase Transit Frequency	0.00			
	Transit Improvements	Transit Improvements Subtotal	0.00			
		Land Use and Site Enhancement Subtotal	0.21			
No	Commute	Implement Trip Reduction Program				
No	Commute	Transit Subsidy				
No	Commute	Implement Employee Parking "Cash Out"	7.70			
No	Commute	Workplace Parking Charge				
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00			
No	Commute	Market Commute Trip Reduction Option	0.00			
No	Commute	Employee Vanpool/Shuttle	0.00		2.00	
No	Commute	Provide Ride Sharing Program	15.00			
	Commute	Commute Subtotal	0.00			

No	School Trip	Implement School Bus Program	0.00			
		Total VMT Reduction	0.21			

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
Yes	No Hearth	
No	Use Low VOC Cleaning Supplies	
Yes	Use Low VOC Paint (Residential Interior)	5.00
Yes	Use Low VOC Paint (Residential Exterior)	5.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
Yes	On-site Renewable	168.22	

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

Water Mitigation Measures

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

Solid Waste Mitigation

Mitigation Measures	Input Value

Institute Recycling and Composting Services Percent Reduction in Waste Disposed	

Artesia HO-O Zone Implementation, March 2019

Summary - Annual Operational Emissions, Combined Groups

CalEEMod Version 2016.3.2

Note: these tables were prepared manually from CalEEMod summary tables for group emissions. CalEEMod-generated tables are not available unless all default values are used.

UNMITIGATED MAXIMUM DAILY OPERATIONS - SUMMER

Group	ROG (VOC)	NOX	CO	SO2	Total PM10	Total PM2.5
A	5.0003	8.7209	35.0031	0.0853	6.6401	1.8935
B	2.0524	3.5795	14.3669	0.035	2.7254	0.7772
C	2.3136	4.0351	16.1955	0.0395	3.0723	0.8761
D	1.7538	3.0588	12.2772	0.0299	2.329	0.6642
E	0.4851	0.8461	3.3958	8.28E-03	0.6442	0.1837
F	2.836	4.9462	19.8525	0.0484	3.7661	1.074
G	3.2092	5.597	22.4647	0.0548	4.2616	1.2153
Totals	**17.6504**	**30.7836**	**123.5557**	**0.30118**	**23.4387**	**6.684**
Thresholds	**55**	**55**	**550**	**150**	**150**	**55**
Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

UNMITIGATED MAXIMUM DAILY OPERATIONS - WINTER

Group	ROG (VOC)	NOX	CO	SO2	Total PM10	Total PM2.5
A	4.9514	8.9357	33.7906	0.0813	6.6405	1.8939
B	2.0323	3.6676	13.8693	0.0334	2.7256	0.7773
C	2.2909	4.1344	15.6345	0.0376	3.0725	0.8763
D	1.7367	3.1342	11.8519	0.0285	2.3291	0.6643
E	0.4804	0.8669	3.2782	7.89E-03	0.6442	0.1837
F	2.8083	5.068	19.1649	0.0461	3.7662	1.0741
G	3.1778	5.7349	21.6865	0.0522	4.2618	1.2155
Totals	**17.4778**	**31.5417**	**119.2759**	**0.28699**	**23.4399**	**6.6851**
Thresholds	**55**	**55**	**550**	**150**	**150**	**55**
Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

MITIGATED MAXIMUM DAILY OPERATIONS - SUMMER

Group	ROG (VOC)	NOX	CO	SO2	Total PM10	Total PM2.5
A	4.6259	7.6748	30.6653	0.0688	5.2499	1.5127
B	1.9007	3.1629	12.6397	0.0285	2.1719	0.6256
C	2.1403	3.551	14.1884	0.0318	2.4291	0.6999
D	1.6243	2.7029	10.8012	0.0243	1.856	0.5346
E	0.4493	0.7476	2.9876	6.73E-03	0.5134	0.1479
F	2.6265	4.3706	17.4657	0.0393	3.0011	0.8644
G	**2.9721**	**4.9457**	**19.7638**	**0.0445**	**3.396**	**0.9781**
Totals	**16.3391**	**27.1555**	**108.5117**	**0.24393**	**18.6174**	**5.3632**
Thresholds	**55**	**55**	**550**	**150**	**150**	**55**
Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**

MITIGATED MAXIMUM DAILY OPERATIONS - WINTER

Group	ROG (VOC)	NOX	CO	SO2	Total PM10	Total PM2.5
A	4.5811	7.828	29.8555	0.0656	5.2503	1.513
B	1.8823	3.2266	12.3023	0.0271	2.172	0.6257
C	2.1196	3.6219	13.8137	0.0304	2.4292	0.7001
D	1.6085	2.7573	10.5129	0.0232	1.8561	0.5347
E	0.4449	0.7626	2.9078	6.41E-03	0.5134	0.1479
F	2.8083	5.068	19.1649	0.0461	3.7662	1.0741
G	**2.9433**	**5.0452**	**19.2364**	**0.0424**	**3.3962**	**0.9784**
Totals	**16.388**	**28.3096**	**107.7935**	**0.24121**	**19.3834**	**5.5739**
Thresholds	**55**	**55**	**550**	**150**	**150**	**55**
Exceeded?	**NO**	**NO**	**NO**	**NO**	**NO**	**NO**