

Appendix A – CalEEMod Output Tables

CalEEMod Output Tables

for the

Entrada Housing Project

Prepared for:

City of Riverside
3900 Main Street, 3rd Floor
Riverside, CA 92522



City of Arts & Innovation

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May 2018

Wakeland Riverside - South Coast AQMD Air District, Summer

Wakeland Riverside South Coast AQMD Air District, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	0.90	1000sqft	0.02	900.00	0
Day-Care Center	2.50	1000sqft	0.06	2,500.00	0
Parking Lot	106.00	Space	0.95	42,400.00	0
Apartments Mid Rise	65.00	Dwelling Unit	1.00	65,000.00	186

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	13			Operational Year	2019

Utility Company Riverside Public Utilities

CO2 Intensity (lb/MMWhr)	1325.65	CH4 Intensity (lb/MMWhr)	0.029	N2O Intensity (lb/MMWhr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - The project site is 2.03 acres

Construction Phase - Assumes a 9 month build out

Architectural Coating - Assumes low VOC

Woodstoves - The project will not have woodstoves or fireplaces

Construction Off-road Equipment Mitigation - Assumes BMPs for construction equipment

Area Mitigation -

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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	150.00
tblArchitecturalCoating	EF_Residential_Exterior	50.00	100.00
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	20
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	20
tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	20
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00

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tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstructionPhase	NumDays	10.00	25.00
tblConstructionPhase	NumDays	220.00	100.00
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	6.00	15.00
tblConstructionPhase	NumDays	10.00	15.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	55.25	0.00
tblFireplaces	NumberNoFireplace	6.50	0.00
tblFireplaces	NumberWood	3.25	0.00
tblGrading	AcresOfGrading	7.50	3.00
tblLandUse	LotAcreage	1.71	1.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblWoodstoves	NumberCatalytic	3.25	0.00
tblWoodstoves	NumberNoncatalytic	3.25	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

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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															
2018	23.0675	24.4143	19.4524	0.0368	6.3460	1.4376	7.5152	3.3628	1.3440	4.4384	0.0000	3,524.669	3,524.669	0.6509	0.0000	3,538.566
												3	3			4
Maximum	23.0675	24.4143	19.4524	0.0368	6.3460	1.4376	7.5152	3.3628	1.3440	4.4384	0.0000	3,524.669	3,524.669	0.6509	0.0000	3,538.566
												3	3			4

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															
2018	23.0675	20.7597	19.4524	0.0368	4.0822	1.4376	5.2514	2.1581	1.3440	3.2337	0.0000	3,524.669	3,524.669	0.6509	0.0000	3,538.566
												3	3			4
Maximum	23.0675	20.7597	19.4524	0.0368	4.0822	1.4376	5.2514	2.1581	1.3440	3.2337	0.0000	3,524.669	3,524.669	0.6509	0.0000	3,538.566
												3	3			4

Wakeland Riverside - South Coast AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	14.97	0.00	0.00	35.67	0.00	30.12	35.82	0.00	27.14	0.00	0.00	0.00	0.00	0.00	0.00

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2.2 Overall Operational**Unmitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Area	1.6587	0.0625	5.4004	2.8000e-004		0.0296	0.0296		0.0296	0.0296	0.0000	9.6798	9.6798	9.5400e-003	0.0000	9.9184
Energy	0.0183	0.1574	0.0719	1.0000e-003		0.0127	0.0127		0.0127	0.0127		199.9963	199.9963	3.8300e-003	3.6700e-003	201.1848
Mobile	1.2870	6.2066	15.9993	0.0504	3.7871	0.0561	3.8432	1.0134	0.0528	1.0662		5,118.6595	5,118.6595	0.2727		5,125.4778
Total	2.9640	6.4265	21.4716	0.0517	3.7871	0.0983	3.8855	1.0134	0.0950	1.1085	0.0000	5,328.3356	5,328.3356	0.2861	3.6700e-003	5,336.5810

Mitigated Operational

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Area	2.4982	0.0625	5.4004	2.8000e-004		0.0296	0.0296		0.0296	0.0296	0.0000	9.6798	9.6798	9.5400e-003	0.0000	9.9184
Energy	0.0183	0.1574	0.0719	1.0000e-003		0.0127	0.0127		0.0127	0.0127		199.9963	199.9963	3.8300e-003	3.6700e-003	201.1848
Mobile	1.2870	6.2066	15.9993	0.0504	3.7871	0.0561	3.8432	1.0134	0.0528	1.0662		5,118.6595	5,118.6595	0.2727		5,125.4778
Total	3.8035	6.4265	21.4716	0.0517	3.7871	0.0983	3.8855	1.0134	0.0950	1.1085	0.0000	5,328.3356	5,328.3356	0.2861	3.6700e-003	5,336.5810

Wakeland Riverside - South Coast AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	-28.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction DetailConstruction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/12/2018	5/2/2018	5	15	
2	Grading	Grading	5/3/2018	5/23/2018	5	15	
3	Building Construction	Building Construction	5/24/2018	10/10/2018	5	100	
4	Paving	Paving	10/11/2018	10/31/2018	5	15	
5	Architectural Coating	Architectural Coating	11/1/2018	12/5/2018	5	25	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 3****Acres of Paving: 0.95**

Residential Indoor: 131,625; Residential Outdoor: 43,875; Non-Residential Indoor: 5,100; Non-Residential Outdoor: 1,700; Striped Parking Area: 2,544 (Architectural Coating – sqft)

OffRoad Equipment

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

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	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	66.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	0.00	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

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3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Clean Paved Roads

3.2 Demolition - 2018**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	2.4838	24.3641	15.1107	0.0241		1.4365	1.4365		1.3429	1.3429		2,391.1659	2,391.1659	0.6058		2,406.3105
Total	2.4838	24.3641	15.1107	0.0241		1.4365	1.4365		1.3429	1.3429		2,391.1659	2,391.1659	0.6058		2,406.3105

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3.2 Demolition - 2018**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0701	0.0502	0.6523	1.5900e-003	0.1453	1.1600e-003	0.1465	0.0385	1.0700e-003	0.0396		158.5157	158.5157	5.4100e-003		158.6508
Total	0.0701	0.0502	0.6523	1.5900e-003	0.1453	1.1600e-003	0.1465	0.0385	1.0700e-003	0.0396		158.5157	158.5157	5.4100e-003		158.6508

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	2.4838	20.7095	15.1107	0.0241		1.4365	1.4365		1.3429	1.3429	0.0000	2,391.165 ₉	2,391.165 ₉	0.6058		2,406.310 ₅
Total	2.4838	20.7095	15.1107	0.0241		1.4365	1.4365		1.3429	1.3429	0.0000	2,391.165 ₉	2,391.165 ₉	0.6058		2,406.310 ₅

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3.2 Demolition - 2018**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0701	0.0502	0.6523	1.5900e-003	0.1200	1.1600e-003	0.1212	0.0323	1.0700e-003	0.0334		158.5157	158.5157	5.4100e-003		158.6508
Total	0.0701	0.0502	0.6523	1.5900e-003	0.1200	1.1600e-003	0.1212	0.0323	1.0700e-003	0.0334		158.5157	158.5157	5.4100e-003		158.6508

3.3 Grading - 2018**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2342	0.0000	6.2342	3.3331	0.0000	3.3331			0.0000			0.0000
Off-Road	2.1515	24.2895	10.3804	0.0206		1.1683	1.1683	1.0748	1.0748	1.0748		2,077.4666	2,077.4666	0.6467		2,093.6352
Total	2.1515	24.2895	10.3804	0.0206	6.2342	1.1683	7.4025	3.3331	1.0748	4.4080		2,077.4666	2,077.4666	0.6467		2,093.6352

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3.3 Grading - 2018**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0539	0.0386	0.5018	1.2300e-003	0.1118	8.9000e-004	0.1127	0.0296	8.2000e-004	0.0305		121.9352	121.9352	4.1600e-003		122.0391
Total	0.0539	0.0386	0.5018	1.2300e-003	0.1118	8.9000e-004	0.1127	0.0296	8.2000e-004	0.0305		121.9352	121.9352	4.1600e-003		122.0391

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															
Fugitive Dust					3.9899	0.0000	3.9899	2.1332	0.0000	2.1332			0.0000			0.0000
Off-Road	2.1515	20.6461	10.3804	0.0206		1.1683	1.1683		1.0748	1.0748	0.0000	2,077.466 ₆	2,077.466 ₆	0.6467		2,093.635 ₂
Total	2.1515	20.6461	10.3804	0.0206	3.9899	1.1683	5.1582	2.1332	1.0748	3.2080	0.0000	2,077.466 ₆	2,077.466 ₆	0.6467		2,093.635 ₂

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3.3 Grading - 2018**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0539	0.0386	0.5018	1.2300e-003	0.0923	8.9000e-004	0.0932	0.0249	8.2000e-004	0.0257		121.9352	121.9352	4.1600e-003		122.0391
Total	0.0539	0.0386	0.5018	1.2300e-003	0.0923	8.9000e-004	0.0932	0.0249	8.2000e-004	0.0257		121.9352	121.9352	4.1600e-003		122.0391

3.4 Building Construction - 2018**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051		2,329.7759	2,329.7759	0.5019		2,342.3232
Total	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051		2,329.7759	2,329.7759	0.5019		2,342.3232

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3.4 Building Construction - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0596	1.6966	0.4225	3.6600e-003	0.0896	0.0124	0.1020	0.0258	0.0119	0.0377		390.1213	390.1213	0.0266		390.7850
Worker	0.3556	0.2550	3.3116	8.0900e-003	0.7377	5.8800e-003	0.7436	0.1957	5.4200e-003	0.2011		804.7721	804.7721	0.0274		805.4581
Total	0.4152	1.9516	3.7341	0.0118	0.8273	0.0183	0.8456	0.2215	0.0173	0.2387		1,194.8933	1,194.8933	0.0540		1,196.2432

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	2.9127	17.6015	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051	0.0000	2,329.7759	2,329.7759	0.5019		2,342.3232
Total	2.9127	17.6015	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051	0.0000	2,329.7759	2,329.7759	0.5019		2,342.3232

Wakeland Riverside - South Coast AQMD Air District, Summer

3.4 Building Construction - 2018**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0596	1.6966	0.4225	3.6600e-003	0.0768	0.0124	0.0892	0.0227	0.0119	0.0345		390.1213	390.1213	0.0266		390.7850
Worker	0.3556	0.2550	3.3116	8.0900e-003	0.6095	5.8800e-003	0.6153	0.1642	5.4200e-003	0.1696		804.7721	804.7721	0.0274		805.4581
Total	0.4152	1.9516	3.7341	0.0118	0.6863	0.0183	0.7046	0.1868	0.0173	0.2041		1,194.8933	1,194.8933	0.0540		1,196.2432

3.5 Paving - 2018**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1.4046	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836		1,774.2430	1,774.2430	0.5419		1,787.7896
Paving	0.1659					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.5706	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836		1,774.2430	1,774.2430	0.5419		1,787.7896

Wakeland Riverside - South Coast AQMD Air District, Summer

3.5 Paving - 2018**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Worker	0.0808	0.0580	0.7526	1.8400e-003	0.1677	1.3400e-003	0.1690	0.0445	1.2300e-003	0.0457		182.9028	182.9028	6.2400e-003		183.0587
Total	0.0808	0.0580	0.7526	1.8400e-003	0.1677	1.3400e-003	0.1690	0.0445	1.2300e-003	0.0457		182.9028	182.9028	6.2400e-003		183.0587

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															
Off-Road	1.4046	12.1140	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836	0.0000	1,774.2430	1,774.2430	0.5419		1,787.7896
Paving	0.1659					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.5706	12.1140	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836	0.0000	1,774.2430	1,774.2430	0.5419		1,787.7896

Wakeland Riverside - South Coast AQMD Air District, Summer

3.5 Paving - 2018**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Worker	0.0808	0.0580	0.7526	1.8400e-003	0.1385	1.3400e-003	0.1399	0.0373	1.2300e-003	0.0385		182.9028	182.9028	6.2400e-003		183.0587
Total	0.0808	0.0580	0.7526	1.8400e-003	0.1385	1.3400e-003	0.1399	0.0373	1.2300e-003	0.0385		182.9028	182.9028	6.2400e-003		183.0587

3.6 Architectural Coating - 2018**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	22.6988					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
Total	22.9974	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171

Wakeland Riverside - South Coast AQMD Air District, Summer

3.6 Architectural Coating - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0701	0.0502	0.6523	1.5900e-003	0.1453	1.1600e-003	0.1465	0.0385	1.0700e-003	0.0396		158.5157	158.5157	5.4100e-003		158.6508
Total	0.0701	0.0502	0.6523	1.5900e-003	0.1453	1.1600e-003	0.1465	0.0385	1.0700e-003	0.0396		158.5157	158.5157	5.4100e-003		158.6508

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															
Archit. Coating	22.6988					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	1.7049	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
Total	22.9974	1.7049	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171

Wakeland Riverside - South Coast AQMD Air District, Summer

3.6 Architectural Coating - 2018**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0701	0.0502	0.6523	1.5900e-003	0.1200	1.1600e-003	0.1212	0.0323	1.0700e-003	0.0334		158.5157	158.5157	5.4100e-003		158.6508
Total	0.0701	0.0502	0.6523	1.5900e-003	0.1200	1.1600e-003	0.1212	0.0323	1.0700e-003	0.0334		158.5157	158.5157	5.4100e-003		158.6508

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Wakeland Riverside - South Coast AQMD Air District, Summer

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Mitigated	1.2870	6.2066	15.9993	0.0504	3.7871	0.0561	3.8432	1.0134	0.0528	1.0662		5,118.6595	5,118.6595	0.2727		5,125.4778
Unmitigated	1.2870	6.2066	15.9993	0.0504	3.7871	0.0561	3.8432	1.0134	0.0528	1.0662		5,118.6595	5,118.6595	0.2727		5,125.4778

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate				Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT	Annual VMT
Apartment Mid Rise	432.25	415.35	380.90	1,443,747	1,443,747	1,443,747	1,443,747	1,443,747
Day-Care Center	185.15	15.53	14.58	198,554	198,554	198,554	198,554	198,554
Office Park	10.28	1.48	0.68	25,847	25,847	25,847	25,847	25,847
Parking Lot	0.00	0.00	0.00					
Total	627.68	432.35	396.16	1,668,148	1,668,148	1,668,148	1,668,148	1,668,148

4.3 Trip Type Information

Land Use	Miles				Trip %				Trip Purpose %			
	H-W or C-W	H-S or C-C	H-O or C-C	H-W or C-W	H-S or C-C	H-O or C-C	H-W or C-W	H-S or C-C	H-O or C-C	Primary	Diverted	Pass-by
Apartment Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	86	86	11	3
Day-Care Center	16.60	8.40	6.90	12.70	82.30	5.00	28	58	28	28	58	14
Office Park	16.60	8.40	6.90	33.00	48.00	19.00	82	15	82	82	15	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0	0	0	0

4.4 Fleet Mix

Wakeland Riverside - South Coast AQMD Air District, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Office Park	0.546418	0.044132	0.199182	0.124467	0.017484	0.005870	0.020172	0.031831	0.001999	0.002027	0.004724	0.000704	0.000991
Day-Care Center	0.546418	0.044132	0.199182	0.124467	0.017484	0.005870	0.020172	0.031831	0.001999	0.002027	0.004724	0.000704	0.000991
Parking Lot	0.546418	0.044132	0.199182	0.124467	0.017484	0.005870	0.020172	0.031831	0.001999	0.002027	0.004724	0.000704	0.000991
Apartments Mid Rise	0.546418	0.044132	0.199182	0.124467	0.017484	0.005870	0.020172	0.031831	0.001999	0.002027	0.004724	0.000704	0.000991

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Natural Gas Mitigated	0.0183	0.1574	0.0719	1.0000e-003		0.0127	0.0127		0.0127	0.0127		199.9963	199.9963	3.8300e-003	3.6700e-003	201.1848
Natural Gas Unmitigated	0.0183	0.1574	0.0719	1.0000e-003		0.0127	0.0127		0.0127	0.0127		199.9963	199.9963	3.8300e-003	3.6700e-003	201.1848

Wakeland Riverside - South Coast AQMD Air District, Summer

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	1579.22	0.0170	0.1455	0.0619	9.3000e-004	0.0118	0.0118	0.0118	0.0118	0.0118	0.0118		185.7906	185.7906	3.5600e-003	3.4100e-003	186.8947
Day-Care Center	40.6849	4.4000e-004	3.9900e-003	3.3500e-003	2.0000e-005	3.0000e-004	3.0000e-004	3.0000e-004	3.0000e-004	3.0000e-004	3.0000e-004		4.7865	4.7865	9.0000e-005	9.0000e-005	4.8149
Office Park	80.063	8.6000e-004	7.8500e-003	6.5900e-003	5.0000e-005	6.0000e-004	6.0000e-004	6.0000e-004	6.0000e-004	6.0000e-004	6.0000e-004		9.4192	9.4192	1.8000e-004	1.7000e-004	9.4752
Parking Lot	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0183	0.1574	0.0719	1.0000e-003		0.0127	0.0127		0.0127	0.0127		199.9963	199.9963	3.8300e-003	3.6700e-003	201.1848

Wakeland Riverside - South Coast AQMD Air District, Summer

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															
Apartment's Mid Rise	1.57922	0.0170	0.1455	0.0619	9.3000e-004		0.0118	0.0118		0.0118	0.0118		185.7906	185.7906	3.5600e-003	3.4100e-003	186.8947
Day-Care Center	0.0406849	4.4000e-004	3.9900e-003	3.3500e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004		4.7865	4.7865	9.0000e-005	9.0000e-005	4.8149
Office Park	0.080063	8.6000e-004	7.8500e-003	6.5900e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004		9.4192	9.4192	1.8000e-004	1.7000e-004	9.4752
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0183	0.1574	0.0719	1.0000e-003		0.0127	0.0127		0.0127	0.0127		199.9963	199.9963	3.8300e-003	3.6700e-003	201.1848

6.0 Area Detail**6.1 Mitigation Measures Area**

Use Low VOC Paint - Residential Interior
 Use Low VOC Paint - Residential Exterior
 Use Low VOC Paint - Non-Residential Interior
 Use Low VOC Paint - Non-Residential Exterior
 Use Low VOC Cleaning Supplies

Wakeland Riverside - South Coast AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.4982	0.0625	5.4004	2.8000e-004	0.0296	0.0296	0.0296	0.0296	0.0296	0.0296	0.0000	9.6798	9.6798	9.5400e-003	0.0000	9.9184
Unmitigated	1.6587	0.0625	5.4004	2.8000e-004	0.0296	0.0296	0.0296	0.0296	0.0296	0.0296	0.0000	9.6798	9.6798	9.5400e-003	0.0000	9.9184

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	0.1233					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3693					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	0.1660	0.0625	5.4004	2.8000e-004		0.0296	0.0296		0.0296	0.0296		9.6798	9.6798	9.5400e-003		9.9184
Total	1.6587	0.0625	5.4004	2.8000e-004		0.0296	0.0296		0.0296	0.0296	0.0000	9.6798	9.6798	9.5400e-003	0.0000	9.9184

Wakeland Riverside - South Coast AQMD Air District, Summer

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	0.1233					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.2089					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	0.1660	0.0625	5.4004	2.8000e-004		0.0296	0.0296		0.0296	0.0296		9.6798	9.6798	9.5400e-003		9.9184
Total	2.4982	0.0625	5.4004	2.8000e-004		0.0296	0.0296		0.0296	0.0296	0.0000	9.6798	9.6798	9.5400e-003	0.0000	9.9184

7.0 Water Detail

7.1 Mitigation Measures Water

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
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10.0 Stationary Equipment

Wakeland Riverside - South Coast AQMD Air District, Summer

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Wakeland Riverside - South Coast AQMD Air District, Winter

Wakeland Riverside South Coast AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	0.90	1000sqft	0.02	900.00	0
Day-Care Center	2.50	1000sqft	0.06	2,500.00	0
Parking Lot	106.00	Space	0.95	42,400.00	0
Apartment's Mid Rise	65.00	Dwelling Unit	1.00	65,000.00	186

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	13			Operational Year	2019

Utility Company Riverside Public Utilities

CO2 Intensity (lb/MMWhr)	1325.65	CH4 Intensity (lb/MMWhr)	0.029	N2O Intensity (lb/MMWhr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - The project site is 2.03 acres

Construction Phase - Assumes a 9 month build out

Architectural Coating - Assumes low VOC

Woodstoves - The project will not have woodstoves or fireplaces

Construction Off-road Equipment Mitigation - Assumes BMPs for construction equipment

Area Mitigation -

Wakeland Riverside - South Coast AQMD Air District, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	150.00
tblArchitecturalCoating	EF_Residential_Exterior	50.00	100.00
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	20
tblConstDustMitigation	WaterExposedAreaPM10PercentReduction	61	20
tblConstDustMitigation	WaterExposedAreaPM25PercentReduction	61	20
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00

Wakeland Riverside - South Coast AQMD Air District, Winter

tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstructionPhase	NumDays	10.00	25.00
tblConstructionPhase	NumDays	220.00	100.00
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	6.00	15.00
tblConstructionPhase	NumDays	10.00	15.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	55.25	0.00
tblFireplaces	NumberNoFireplace	6.50	0.00
tblFireplaces	NumberWood	3.25	0.00
tblGrading	AcresOfGrading	7.50	3.00
tblLandUse	LotAcreage	1.71	1.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblWoodstoves	NumberCatalytic	3.25	0.00
tblWoodstoves	NumberNoncatalytic	3.25	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

Wakeland Riverside - South Coast AQMD Air District, Winter

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															
2018	23.0736	24.4191	19.1843	0.0361	6.3460	1.4376	7.5152	3.3628	1.3440	4.4384	0.0000	3,461.683	3,461.683	0.6506	0.0000	3,475.585
												2	2			9
Maximum	23.0736	24.4191	19.1843	0.0361	6.3460	1.4376	7.5152	3.3628	1.3440	4.4384	0.0000	3,461.683	3,461.683	0.6506	0.0000	3,475.585
												2	2			9

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															
2018	23.0736	20.7645	19.1843	0.0361	4.0822	1.4376	5.2514	2.1581	1.3440	3.2337	0.0000	3,461.683	3,461.683	0.6506	0.0000	3,475.585
												2	2			9
Maximum	23.0736	20.7645	19.1843	0.0361	4.0822	1.4376	5.2514	2.1581	1.3440	3.2337	0.0000	3,461.683	3,461.683	0.6506	0.0000	3,475.585
												2	2			9

Wakeland Riverside - South Coast AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	14.97	0.00	0.00	35.67	0.00	30.12	35.82	0.00	27.14	0.00	0.00	0.00	0.00	0.00	0.00

Wakeland Riverside - South Coast AQMD Air District, Winter

2.2 Overall Operational**Unmitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Area	1.6587	0.0625	5.4004	2.8000e-004		0.0296	0.0296		0.0296	0.0296	0.0000	9.6798	9.6798	9.5400e-003	0.0000	9.9184
Energy	0.0183	0.1574	0.0719	1.0000e-003		0.0127	0.0127		0.0127	0.0127		199.9963	199.9963	3.8300e-003	3.6700e-003	201.1848
Mobile	1.2279	6.3413	15.1220	0.0477	3.7871	0.0566	3.8437	1.0134	0.0532	1.0667		4,842.6118	4,842.6118	0.2728		4,849.4316
Total	2.9049	6.5612	20.5943	0.0490	3.7871	0.0988	3.8859	1.0134	0.0955	1.1089	0.0000	5,052.2879	5,052.2879	0.2862	3.6700e-003	5,060.5347

Mitigated Operational

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
lb/day																
Area	2.4982	0.0625	5.4004	2.8000e-004		0.0296	0.0296		0.0296	0.0296	0.0000	9.6798	9.6798	9.5400e-003	0.0000	9.9184
Energy	0.0183	0.1574	0.0719	1.0000e-003		0.0127	0.0127		0.0127	0.0127		199.9963	199.9963	3.8300e-003	3.6700e-003	201.1848
Mobile	1.2279	6.3413	15.1220	0.0477	3.7871	0.0566	3.8437	1.0134	0.0532	1.0667		4,842.6118	4,842.6118	0.2728		4,849.4316
Total	3.7444	6.5612	20.5943	0.0490	3.7871	0.0988	3.8859	1.0134	0.0955	1.1089	0.0000	5,052.2879	5,052.2879	0.2862	3.6700e-003	5,060.5347

Wakeland Riverside - South Coast AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	-28.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/12/2018	5/2/2018	5	15	
2	Grading	Grading	5/3/2018	5/23/2018	5	15	
3	Building Construction	Building Construction	5/24/2018	10/10/2018	5	100	
4	Paving	Paving	10/11/2018	10/31/2018	5	15	
5	Architectural Coating	Architectural Coating	11/1/2018	12/5/2018	5	25	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 3****Acres of Paving: 0.95**

Residential Indoor: 131,625; Residential Outdoor: 43,875; Non-Residential Indoor: 5,100; Non-Residential Outdoor: 1,700; Striped Parking Area: 2,544 (Architectural Coating – sqft)

OffRoad Equipment

Wakeland Riverside - South Coast AQMD Air District, Winter

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

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	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	66.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	0.00	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

Wakeland Riverside - South Coast AQMD Air District, Winter

3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Clean Paved Roads

3.2 Demolition - 2018**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	2.4838	24.3641	15.1107	0.0241		1.4365	1.4365		1.3429	1.3429		2,391.1659	2,391.1659	0.6058		2,406.3105
Total	2.4838	24.3641	15.1107	0.0241		1.4365	1.4365		1.3429	1.3429		2,391.1659	2,391.1659	0.6058		2,406.3105

Wakeland Riverside - South Coast AQMD Air District, Winter

3.2 Demolition - 2018**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0762	0.0550	0.5903	1.4900e-003	0.1453	1.1600e-003	0.1465	0.0385	1.0700e-003	0.0396		148.2883	148.2883	5.0600e-003		148.4148
Total	0.0762	0.0550	0.5903	1.4900e-003	0.1453	1.1600e-003	0.1465	0.0385	1.0700e-003	0.0396		148.2883	148.2883	5.0600e-003		148.4148

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															
Off-Road	2.4838	20.7095	15.1107	0.0241		1.4365	1.4365		1.3429	1.3429	0.0000	2,391.165 ₉	2,391.165 ₉	0.6058		2,406.310 ₅
Total	2.4838	20.7095	15.1107	0.0241		1.4365	1.4365		1.3429	1.3429	0.0000	2,391.165 ₉	2,391.165 ₉	0.6058		2,406.310 ₅

Wakeland Riverside - South Coast AQMD Air District, Winter

3.2 Demolition - 2018**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0762	0.0550	0.5903	1.4900e-003	0.1200	1.1600e-003	0.1212	0.0323	1.0700e-003	0.0334		148.2883	148.2883	5.0600e-003		148.4148
Total	0.0762	0.0550	0.5903	1.4900e-003	0.1200	1.1600e-003	0.1212	0.0323	1.0700e-003	0.0334		148.2883	148.2883	5.0600e-003		148.4148

3.3 Grading - 2018**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2342	0.0000	6.2342	3.3331	0.0000	3.3331			0.0000			0.0000
Off-Road	2.1515	24.2895	10.3804	0.0206		1.1683	1.1683		1.0748	1.0748		2,077.4666	2,077.4666	0.6467		2,093.6352
Total	2.1515	24.2895	10.3804	0.0206	6.2342	1.1683	7.4025	3.3331	1.0748	4.4080		2,077.4666	2,077.4666	0.6467		2,093.6352

Wakeland Riverside - South Coast AQMD Air District, Winter

3.3 Grading - 2018**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0586	0.0423	0.4541	1.1500e-003	0.1118	8.9000e-004	0.1127	0.0296	8.2000e-004	0.0305		114.0679	114.0679	3.8900e-003		114.1652
Total	0.0586	0.0423	0.4541	1.1500e-003	0.1118	8.9000e-004	0.1127	0.0296	8.2000e-004	0.0305		114.0679	114.0679	3.8900e-003		114.1652

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															
Fugitive Dust					3.9899	0.0000	3.9899	2.1332	0.0000	2.1332			0.0000			0.0000
Off-Road	2.1515	20.6461	10.3804	0.0206		1.1683	1.1683		1.0748	1.0748	0.0000	2.077.4666	2.077.4666	0.6467		2.093.6352
Total	2.1515	20.6461	10.3804	0.0206	3.9899	1.1683	5.1582	2.1332	1.0748	3.2080	0.0000	2.077.4666	2.077.4666	0.6467		2.093.6352

Wakeland Riverside - South Coast AQMD Air District, Winter

3.3 Grading - 2018**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0586	0.0423	0.4541	1.1500e-003	0.0923	8.9000e-004	0.0932	0.0249	8.2000e-004	0.0257		114.0679	114.0679	3.8900e-003		114.1652
Total	0.0586	0.0423	0.4541	1.1500e-003	0.0923	8.9000e-004	0.0932	0.0249	8.2000e-004	0.0257		114.0679	114.0679	3.8900e-003		114.1652

3.4 Building Construction - 2018**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051		2,329.7759	2,329.7759	0.5019		2,342.3232
Total	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051		2,329.7759	2,329.7759	0.5019		2,342.3232

Wakeland Riverside - South Coast AQMD Air District, Winter

3.4 Building Construction - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0622	1.6994	0.4690	3.5600e-003	0.0896	0.0126	0.1022	0.0258	0.0120	0.0378		379.0590	379.0590	0.0285		379.7721
Worker	0.3867	0.2793	2.9970	7.5600e-003	0.7377	5.8800e-003	0.7436	0.1957	5.4200e-003	0.2011		752.8483	752.8483	0.0257		753.4905
Total	0.4488	1.9787	3.4660	0.0111	0.8273	0.0185	0.8458	0.2215	0.0175	0.2389		1,131.907 ₃	1,131.907 ₃	0.0542		1,133.262 ₇

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															
Off-Road	2.9127	17.6015	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051	0.0000	2,329.775 ₉	2,329.775 ₉	0.5019		2,342.323 ₂
Total	2.9127	17.6015	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051	0.0000	2,329.775 ₉	2,329.775 ₉	0.5019		2,342.323 ₂

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3.4 Building Construction - 2018**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0622	1.6994	0.4690	3.5600e-003	0.0768	0.0126	0.0894	0.0227	0.0120	0.0347		379.0590	379.0590	0.0285		379.7721
Worker	0.3867	0.2793	2.9970	7.5600e-003	0.6095	5.8800e-003	0.6153	0.1642	5.4200e-003	0.1696		752.8483	752.8483	0.0257		753.4905
Total	0.4488	1.9787	3.4660	0.0111	0.6863	0.0185	0.7048	0.1868	0.0175	0.2043		1,131.9073	1,131.9073	0.0542		1,133.2627

3.5 Paving - 2018**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Off-Road	1.4046	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836		1,774.2430	1,774.2430	0.5419		1,787.7896
Paving	0.1659					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.5706	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836		1,774.2430	1,774.2430	0.5419		1,787.7896

Wakeland Riverside - South Coast AQMD Air District, Winter

3.5 Paving - 2018**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Worker	0.0879	0.0635	0.6811	1.7200e-003	0.1677	1.3400e-003	0.1690	0.0445	1.2300e-003	0.0457		171.1019	171.1019	5.8400e-003		171.2479
Total	0.0879	0.0635	0.6811	1.7200e-003	0.1677	1.3400e-003	0.1690	0.0445	1.2300e-003	0.0457		171.1019	171.1019	5.8400e-003		171.2479

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	1.4046	12.1140	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836	0.0000	1,774.2430	1,774.2430	0.5419		1,787,7896
Paving	0.1659					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.5706	12.1140	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836	0.0000	1,774.2430	1,774.2430	0.5419		1,787,7896

Wakeland Riverside - South Coast AQMD Air District, Winter

3.5 Paving - 2018**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Worker	0.0879	0.0635	0.6811	1.7200e-003	0.1385	1.3400e-003	0.1399	0.0373	1.2300e-003	0.0385		171.1019	171.1019	5.8400e-003		171.2479
Total	0.0879	0.0635	0.6811	1.7200e-003	0.1385	1.3400e-003	0.1399	0.0373	1.2300e-003	0.0385		171.1019	171.1019	5.8400e-003		171.2479

3.6 Architectural Coating - 2018**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	22.6988					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
Total	22.9974	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171

Wakeland Riverside - South Coast AQMD Air District, Winter

3.6 Architectural Coating - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0762	0.0550	0.5903	1.4900e-003	0.1453	1.1600e-003	0.1465	0.0385	1.0700e-003	0.0396		148.2883	148.2883	5.0600e-003		148.4148
Total	0.0762	0.0550	0.5903	1.4900e-003	0.1453	1.1600e-003	0.1465	0.0385	1.0700e-003	0.0396		148.2883	148.2883	5.0600e-003		148.4148

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	22.6988					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	1.7049	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
Total	22.9974	1.7049	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171

Wakeland Riverside - South Coast AQMD Air District, Winter

3.6 Architectural Coating - 2018**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0762	0.0550	0.5903	1.4900e-003	0.1200	1.1600e-003	0.1212	0.0323	1.0700e-003	0.0334		148.2883	148.2883	5.0600e-003		148.4148
Total	0.0762	0.0550	0.5903	1.4900e-003	0.1200	1.1600e-003	0.1212	0.0323	1.0700e-003	0.0334		148.2883	148.2883	5.0600e-003		148.4148

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Wakeland Riverside - South Coast AQMD Air District, Winter

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Mitigated	1.2279	6.3413	15.1220	0.0477	3.7871	0.0566	3.8437	1.0134	0.0532	1.0667		4,842.6118	4,842.6118	0.2728		4,849,431 ₆
Unmitigated	1.2279	6.3413	15.1220	0.0477	3.7871	0.0566	3.8437	1.0134	0.0532	1.0667		4,842.6118	4,842.6118	0.2728		4,849,431 ₆

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Apartment Mid Rise	432.25	415.35	380.90	1,443,747	1,443,747
Day-Care Center	185.15	15.53	14.58	198,554	198,554
Office Park	10.28	1.48	0.68	25,847	25,847
Parking Lot	0.00	0.00	0.00		
Total	627.68	432.35	396.16	1,668,148	1,668,148

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartment Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Day-Care Center	16.60	8.40	6.90	12.70	82.30	5.00	28	58	14
Office Park	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Wakeland Riverside - South Coast AQMD Air District, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Office Park	0.546418	0.044132	0.199182	0.124467	0.017484	0.005870	0.020172	0.031831	0.001999	0.002027	0.004724	0.000704	0.000991
Day-Care Center	0.546418	0.044132	0.199182	0.124467	0.017484	0.005870	0.020172	0.031831	0.001999	0.002027	0.004724	0.000704	0.000991
Parking Lot	0.546418	0.044132	0.199182	0.124467	0.017484	0.005870	0.020172	0.031831	0.001999	0.002027	0.004724	0.000704	0.000991
Apartments Mid Rise	0.546418	0.044132	0.199182	0.124467	0.017484	0.005870	0.020172	0.031831	0.001999	0.002027	0.004724	0.000704	0.000991

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day															
Natural Gas Mitigated	0.0183	0.1574	0.0719	1.0000e-003		0.0127	0.0127		0.0127	0.0127		199.9963	199.9963	3.8300e-003	3.6700e-003	201.1848
Natural Gas Unmitigated	0.0183	0.1574	0.0719	1.0000e-003		0.0127	0.0127		0.0127	0.0127		199.9963	199.9963	3.8300e-003	3.6700e-003	201.1848

Wakeland Riverside - South Coast AQMD Air District, Winter

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	1579.22	0.0170	0.1455	0.0619	9.3000e-004		0.0118	0.0118		0.0118	0.0118		185.7906	185.7906	3.5600e-003	3.4100e-003	186.8947
Day-Care Center	40.6849	4.4000e-004	3.9900e-003	3.3500e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004		4.7865	4.7865	9.0000e-005	9.0000e-005	4.8149
Office Park	80.063	8.6000e-004	7.8500e-003	6.5900e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004		9.4192	9.4192	1.8000e-004	1.7000e-004	9.4752
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0183	0.1574	0.0719	1.0000e-003		0.0127	0.0127		0.0127	0.0127		199.9963	199.9963	3.8300e-003	3.6700e-003	201.1848

Wakeland Riverside - South Coast AQMD Air District, Winter

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															
Apartment's Mid Rise	1.57922	0.0170	0.1455	0.0619	9.3000e-004		0.0118	0.0118		0.0118	0.0118		185.7906	185.7906	3.5600e-003	3.4100e-003	186.8947
Day-Care Center	0.0406849	4.4000e-004	3.9900e-003	3.3500e-003	2.0000e-005		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004		4.7865	4.7865	9.0000e-005	9.0000e-005	4.8149
Office Park	0.080063	8.6000e-004	7.8500e-003	6.5900e-003	5.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004		9.4192	9.4192	1.8000e-004	1.7000e-004	9.4752
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0183	0.1574	0.0719	1.0000e-003		0.0127	0.0127		0.0127	0.0127		199.9963	199.9963	3.8300e-003	3.6700e-003	201.1848

6.0 Area Detail**6.1 Mitigation Measures Area**

Use Low VOC Paint - Residential Interior
 Use Low VOC Paint - Residential Exterior
 Use Low VOC Paint - Non-Residential Interior
 Use Low VOC Paint - Non-Residential Exterior
 Use Low VOC Cleaning Supplies

Wakeland Riverside - South Coast AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.4982	0.0625	5.4004	2.8000e-004	0.0296	0.0296	0.0296	0.0296	0.0296	0.0296	0.0000	9.6798	9.6798	9.5400e-003	0.0000	9.9184
Unmitigated	1.6587	0.0625	5.4004	2.8000e-004	0.0296	0.0296	0.0296	0.0296	0.0296	0.0296	0.0000	9.6798	9.6798	9.5400e-003	0.0000	9.9184

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	0.1233					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3693					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	0.1660	0.0625	5.4004	2.8000e-004		0.0296	0.0296		0.0296	0.0296		9.6798	9.6798	9.5400e-003		9.9184
Total	1.6587	0.0625	5.4004	2.8000e-004		0.0296	0.0296		0.0296	0.0296	0.0000	9.6798	9.6798	9.5400e-003	0.0000	9.9184

Wakeland Riverside - South Coast AQMD Air District, Winter

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	0.1233					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.2089					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	0.1660	0.0625	5.4004	2.8000e-004		0.0296	0.0296		0.0296	0.0296		9.6798	9.6798	9.5400e-003		9.9184
Total	2.4982	0.0625	5.4004	2.8000e-004		0.0296	0.0296		0.0296	0.0296	0.0000	9.6798	9.6798	9.5400e-003	0.0000	9.9184

7.0 Water Detail

7.1 Mitigation Measures Water

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
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10.0 Stationary Equipment

Wakeland Riverside - South Coast AQMD Air District, Winter

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Wakeland Riverside - South Coast AQMD Air District, Annual

Wakeland Riverside
South Coast AQMD Air District, Annual**1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Office Park	0.90	1000sqft	0.02	900.00	0
Day-Care Center	2.50	1000sqft	0.06	2,500.00	0
Parking Lot	106.00	Space	0.95	42,400.00	0
Apartment's Mid Rise	65.00	Dwelling Unit	1.00	65,000.00	186

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	13			Operational Year	2019

Utility Company Riverside Public Utilities

CO2 Intensity (lb/MMWhr)	1325.65	CH4 Intensity (lb/MMWhr)	0.029	N2O Intensity (lb/MMWhr)	0.006
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1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - The project site is 2.03 acres

Construction Phase - Assumes a 9 month build out

Architectural Coating - Assumes low VOC

Woodstoves - The project will not have woodstoves or fireplaces

Construction Off-road Equipment Mitigation - Assumes BMPs for construction equipment

Area Mitigation -

Wakeland Riverside - South Coast AQMD Air District, Annual

tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstEquipMitigation	OxidationCatalyst	0.00	15.00
tblConstructionPhase	NumDays	10.00	25.00
tblConstructionPhase	NumDays	220.00	100.00
tblConstructionPhase	NumDays	20.00	15.00
tblConstructionPhase	NumDays	6.00	15.00
tblConstructionPhase	NumDays	10.00	15.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	55.25	0.00
tblFireplaces	NumberNoFireplace	6.50	0.00
tblFireplaces	NumberWood	3.25	0.00
tblGrading	AcresOfGrading	7.50	3.00
tblLandUse	LotAcreage	1.71	1.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblWoodstoves	NumberCatalytic	3.25	0.00
tblWoodstoves	NumberNoncatalytic	3.25	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

Wakeland Riverside - South Coast AQMD Air District, Annual

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					
2018	0.5026	1.6351	1.2873	2.3700e-003	0.0923	0.0916	0.1839	0.0372	0.0871	0.1242	0.0000	208.2717	208.2717	0.0379	0.0000	209.2184
Maximum	0.5026	1.6351	1.2873	2.3700e-003	0.0923	0.0916	0.1839	0.0372	0.0871	0.1242	0.0000	208.2717	208.2717	0.0379	0.0000	209.2184

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					
2018	0.5026	1.4053	1.2873	2.3700e-003	0.0677	0.0916	0.1593	0.0263	0.0871	0.1133	0.0000	208.2715	208.2715	0.0379	0.0000	209.2182
Maximum	0.5026	1.4053	1.2873	2.3700e-003	0.0677	0.0916	0.1593	0.0263	0.0871	0.1133	0.0000	208.2715	208.2715	0.0379	0.0000	209.2182

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	14.06	0.00	0.00	26.64	0.00	13.37	29.31	0.00	8.77	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)				Maximum Mitigated ROG + NOX (tons/quarter)			
1	4-12-2018	7-11-2018	0.8560				0.7469			
2	7-12-2018	9-30-2018	0.7518				0.6619			
		Highest	0.8560				0.7469			

2.2 Overall Operational**Unmitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
tons/yr																
MT/yr																
Area	0.2932	7.8200e-003	0.6751	4.0000e-005		3.7000e-003	3.7000e-003		3.7000e-003	3.7000e-003	0.0000	1.0977	1.0977	1.0800e-003	0.0000	1.1247
Energy	3.3500e-003	0.0287	0.0131	1.8000e-004		2.3100e-003	2.3100e-003		2.3100e-003	2.3100e-003	0.0000	239.1090	239.1090	5.1400e-003	1.5400e-003	239.6962
Mobile	0.2000	1.0848	2.5937	8.2300e-003	0.6339	9.5600e-003	0.6434	0.1699	8.9900e-003	0.1789	0.0000	758.3299	758.3299	0.0416	0.0000	759.3688
Waste						0.0000	0.0000		0.0000	0.0000	6.8997	0.0000	6.8997	0.4078	0.0000	17.0936
Water						0.0000	0.0000		0.0000	0.0000	1.4283	55.5835	57.0118	0.1479	3.7200e-003	61.8171
Total	0.4965	1.1213	3.2819	8.4500e-003	0.6339	0.0156	0.6494	0.1699	0.0150	0.1849	8.3280	1,054.120₁	1,062.448₁	0.6035	5.2600e-003	1,079.100₅

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2.2 Overall Operational**Mitigated Operational**

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Area	0.2932	7.8200e-003	0.6751	4.0000e-005		3.7000e-003	3.7000e-003		3.7000e-003	3.7000e-003	0.0000	1.0977	1.0977	1.0800e-003	0.0000	1.1247
Energy	3.3500e-003	0.0287	0.0131	1.8000e-004		2.3100e-003	2.3100e-003		2.3100e-003	2.3100e-003	0.0000	239.1090	239.1090	5.1400e-003	1.5400e-003	239.6962
Mobile	0.2000	1.0848	2.5937	8.2300e-003	0.6339	9.5600e-003	0.6434	0.1699	8.9900e-003	0.1789	0.0000	758.3299	758.3299	0.0416	0.0000	759.3688
Waste						0.0000	0.0000		0.0000	0.0000	6.8997	0.0000	6.8997	0.4078	0.0000	17.0936
Water						0.0000	0.0000		0.0000	0.0000	1.4283	55.5835	57.0118	0.1479	3.7200e-003	61.8171
Total	0.4965	1.1213	3.2819	8.4500e-003	0.6339	0.0156	0.6494	0.1699	0.0150	0.1849	8.3280	1,054.1201	1,062.4481	0.6035	5.2600e-003	1,079.1005

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

3.0 Construction Detail**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/12/2018	5/2/2018	5	15	
2	Grading	Grading	5/3/2018	5/23/2018	5	15	
3	Building Construction	Building Construction	5/24/2018	10/10/2018	5	100	
4	Paving	Paving	10/11/2018	10/31/2018	5	15	
5	Architectural Coating	Architectural Coating	11/1/2018	12/5/2018	5	25	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3

Acres of Paving: 0.95

Residential Indoor: 131,625; Residential Outdoor: 43,875; Non-Residential Indoor: 5,100; Non-Residential Outdoor: 1,700; Striped Parking Area: 2,544 (Architectural Coating – sqft)

OffRoad Equipment

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

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	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	66.00	14.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	0.00	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

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3.1 Mitigation Measures Construction

Use Oxidation Catalyst for Construction Equipment

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Clean Paved Roads

3.2 Demolition - 2018**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0186	0.1827	0.1133	1.8000e-004		0.0108	0.0108		0.0101	0.0101	0.0000	16.2692	16.2692	4.1200e-003	0.0000	16.3723
Total	0.0186	0.1827	0.1133	1.8000e-004		0.0108	0.0108		0.0101	0.0101	0.0000	16.2692	16.2692	4.1200e-003	0.0000	16.3723

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3.2 Demolition - 2018**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2000e-004	4.2000e-004	4.5500e-003	1.0000e-005	1.0700e-003	1.0000e-005	1.0800e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	1.0262	1.0262	4.0000e-005	0.0000	1.0271
Total	5.2000e-004	4.2000e-004	4.5500e-003	1.0000e-005	1.0700e-003	1.0000e-005	1.0800e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	1.0262	1.0262	4.0000e-005	0.0000	1.0271

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	0.0186	0.1553	0.1133	1.8000e-004		0.0108	0.0108		0.0101	0.0101	0.0000	16.2692	16.2692	4.1200e-003	0.0000	16.3722
Total	0.0186	0.1553	0.1133	1.8000e-004		0.0108	0.0108		0.0101	0.0101	0.0000	16.2692	16.2692	4.1200e-003	0.0000	16.3722

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3.2 Demolition - 2018**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.2000e-004	4.2000e-004	4.5500e-003	1.0000e-005	8.8000e-004	1.0000e-005	8.9000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	1.0262	1.0262	4.0000e-005	0.0000	1.0271
Total	5.2000e-004	4.2000e-004	4.5500e-003	1.0000e-005	8.8000e-004	1.0000e-005	8.9000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	1.0262	1.0262	4.0000e-005	0.0000	1.0271

3.3 Grading - 2018**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0468	0.0000	0.0468	0.0250	0.0000	0.0250	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0161	0.1822	0.0779	1.5000e-004		8.7600e-003	8.7600e-003		8.0600e-003	8.0600e-003	0.0000	14.1348	14.1348	4.4000e-003	0.0000	14.2449
Total	0.0161	0.1822	0.0779	1.5000e-004	0.0468	8.7600e-003	0.0555	0.0250	8.0600e-003	0.0331	0.0000	14.1348	14.1348	4.4000e-003	0.0000	14.2449

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3.3 Grading - 2018**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	3.3000e-004	3.5000e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7894	0.7894	3.0000e-005	0.0000	0.7901
Total	4.0000e-004	3.3000e-004	3.5000e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7894	0.7894	3.0000e-005	0.0000	0.7901

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					0.0299	0.0000	0.0299	0.0160	0.0000	0.0160	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0161	0.1549	0.0779	1.5000e-004		8.7600e-003	8.7600e-003		8.0600e-003	8.0600e-003	0.0000	14.1348	14.1348	4.4000e-003	0.0000	14.2448
Total	0.0161	0.1549	0.0779	1.5000e-004	0.0299	8.7600e-003	0.0387	0.0160	8.0600e-003	0.0241	0.0000	14.1348	14.1348	4.4000e-003	0.0000	14.2448

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3.3 Grading - 2018**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	3.3000e-004	3.5000e-003	1.0000e-005	6.8000e-004	1.0000e-005	6.9000e-004	1.8000e-004	1.0000e-005	1.9000e-004	0.0000	0.7894	0.7894	3.0000e-005	0.0000	0.7901
Total	4.0000e-004	3.3000e-004	3.5000e-003	1.0000e-005	6.8000e-004	1.0000e-005	6.9000e-004	1.8000e-004	1.0000e-005	1.9000e-004	0.0000	0.7894	0.7894	3.0000e-005	0.0000	0.7901

3.4 Building Construction - 2018**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1456	1.0354	0.7859	1.2500e-003		0.0629	0.0629		0.0603	0.0603	0.0000	105.6769	105.6769	0.0228	0.0000	106.2460
Total	0.1456	1.0354	0.7859	1.2500e-003		0.0629	0.0629		0.0603	0.0603	0.0000	105.6769	105.6769	0.0228	0.0000	106.2460

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3.4 Building Construction - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0300e-003	0.0866	0.0223	1.8000e-004	4.4100e-003	6.2000e-004	5.0400e-003	1.2700e-003	6.0000e-004	1.8700e-003	0.0000	17.4849	17.4849	1.2400e-003	0.0000	17.5160
Worker	0.0175	0.0144	0.1540	3.8000e-004	0.0362	2.9000e-004	0.0365	9.6200e-003	2.7000e-004	9.8900e-003	0.0000	34.7326	34.7326	1.1900e-003	0.0000	34.7622
Total	0.0206	0.1009	0.1763	5.6000e-004	0.0406	9.1000e-004	0.0415	0.0109	8.7000e-004	0.0118	0.0000	52.2175	52.2175	2.4300e-003	0.0000	52.2782

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	0.1456	0.8801	0.7859	1.2500e-003		0.0629	0.0629		0.0603	0.0603	0.0000	105.6767	105.6767	0.0228	0.0000	106.2459
Total	0.1456	0.8801	0.7859	1.2500e-003		0.0629	0.0629		0.0603	0.0603	0.0000	105.6767	105.6767	0.0228	0.0000	106.2459

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3.4 Building Construction - 2018**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0300e-003	0.0866	0.0223	1.8000e-004	3.7900e-003	6.2000e-004	4.4100e-003	1.1200e-003	6.0000e-004	1.7200e-003	0.0000	17.4849	17.4849	1.2400e-003	0.0000	17.5160
Worker	0.0175	0.0144	0.1540	3.8000e-004	0.0299	2.9000e-004	0.0302	8.0700e-003	2.7000e-004	8.3500e-003	0.0000	34.7326	34.7326	1.1900e-003	0.0000	34.7622
Total	0.0206	0.1009	0.1763	5.6000e-004	0.0337	9.1000e-004	0.0346	9.1900e-003	8.7000e-004	0.0101	0.0000	52.2175	52.2175	2.4300e-003	0.0000	52.2782

3.5 Paving - 2018**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0105	0.1069	0.0898	1.3000e-004		6.3800e-003	6.3800e-003		5.8800e-003	5.8800e-003	0.0000	12.0718	12.0718	3.6900e-003	0.0000	12.1639
Paving	1.2400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0118	0.1069	0.0898	1.3000e-004		6.3800e-003	6.3800e-003		5.8800e-003	5.8800e-003	0.0000	12.0718	12.0718	3.6900e-003	0.0000	12.1639

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3.5 Paving - 2018**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-004	4.9000e-004	5.2500e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.1841	1.1841	4.0000e-005	0.0000	1.1851
Total	6.0000e-004	4.9000e-004	5.2500e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.1841	1.1841	4.0000e-005	0.0000	1.1851

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	0.0105	0.0909	0.0898	1.3000e-004		6.3800e-003	6.3800e-003		5.8800e-003	5.8800e-003	0.0000	12.0717	12.0717	3.6900e-003	0.0000	12.1639
Paving	1.2400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0118	0.0909	0.0898	1.3000e-004		6.3800e-003	6.3800e-003		5.8800e-003	5.8800e-003	0.0000	12.0717	12.0717	3.6900e-003	0.0000	12.1639

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3.5 Paving - 2018**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.0000e-004	4.9000e-004	5.2500e-003	1.0000e-005	1.0200e-003	1.0000e-005	1.0300e-003	2.8000e-004	1.0000e-005	2.8000e-004	0.0000	1.1841	1.1841	4.0000e-005	0.0000	1.1851
Total	6.0000e-004	4.9000e-004	5.2500e-003	1.0000e-005	1.0200e-003	1.0000e-005	1.0300e-003	2.8000e-004	1.0000e-005	2.8000e-004	0.0000	1.1841	1.1841	4.0000e-005	0.0000	1.1851

3.6 Architectural Coating - 2018**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2837					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.7300e-003	0.0251	0.0232	4.0000e-005	1.8800e-003	1.8800e-003	1.8800e-003	1.8800e-003	1.8800e-003	1.8800e-003	0.0000	3.1916	3.1916	3.0000e-004	0.0000	3.1992
Total	0.2875	0.0251	0.0232	4.0000e-005	1.8800e-003	1.8800e-003	1.8800e-003	1.8800e-003	1.8800e-003	1.8800e-003	0.0000	3.1916	3.1916	3.0000e-004	0.0000	3.1992

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3.6 Architectural Coating - 2018**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.6000e-004	7.1000e-004	7.5800e-003	2.0000e-005	1.7800e-003	1.0000e-005	1.8000e-003	4.7000e-004	1.0000e-005	4.9000e-004	0.0000	1.7103	1.7103	6.0000e-005	0.0000	1.7118
Total	8.6000e-004	7.1000e-004	7.5800e-003	2.0000e-005	1.7800e-003	1.0000e-005	1.8000e-003	4.7000e-004	1.0000e-005	4.9000e-004	0.0000	1.7103	1.7103	6.0000e-005	0.0000	1.7118

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	0.2837					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.7300e-003	0.0213	0.0232	4.0000e-005	1.8800e-003	1.8800e-003	1.8800e-003	1.8800e-003	1.8800e-003	1.8800e-003	0.0000	3.1916	3.1916	3.0000e-004	0.0000	3.1992
Total	0.2875	0.0213	0.0232	4.0000e-005	1.8800e-003	1.8800e-003	1.8800e-003	1.8800e-003	1.8800e-003	1.8800e-003	0.0000	3.1916	3.1916	3.0000e-004	0.0000	3.1992

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3.6 Architectural Coating - 2018**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.6000e-004	7.1000e-004	7.5800e-003	2.0000e-005	1.4700e-003	1.0000e-005	1.4900e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.7103	1.7103	6.0000e-005	0.0000	1.7118
Total	8.6000e-004	7.1000e-004	7.5800e-003	2.0000e-005	1.4700e-003	1.0000e-005	1.4900e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.7103	1.7103	6.0000e-005	0.0000	1.7118

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2000	1.0848	2.5937	8.2300e-003	0.6339	9.5600e-003	0.6434	0.1699	8.9900e-003	0.1789	0.0000	758.3299	758.3299	0.0416	0.0000	759.3688
Unmitigated	0.2000	1.0848	2.5937	8.2300e-003	0.6339	9.5600e-003	0.6434	0.1699	8.9900e-003	0.1789	0.0000	758.3299	758.3299	0.0416	0.0000	759.3688

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate				Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT	Annual VMT
Apartments Mid Rise	432.25	415.35	380.90	1,443,747	1,443,747	1,443,747	1,443,747	1,443,747
Day-Care Center	185.15	15.53	14.58	198,554	198,554	198,554	198,554	198,554
Office Park	10.28	1.48	0.68	25,847	25,847	25,847	25,847	25,847
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	627.68	432.35	396.16	1,668,148	1,668,148	1,668,148	1,668,148	1,668,148

4.3 Trip Type Information

Land Use	Miles				Trip %				Trip Purpose %			
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by	Diverted	Pass-by	Pass-by
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3	11	3	3
Day-Care Center	16.60	8.40	6.90	12.70	82.30	5.00	28	58	14	58	14	14
Office Park	16.60	8.40	6.90	33.00	48.00	19.00	82	15	3	15	3	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0	0	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Office Park	0.546418	0.044132	0.199182	0.124467	0.017484	0.005870	0.020172	0.031831	0.001999	0.002027	0.004724	0.000704	0.000991
Day-Care Center	0.546418	0.044132	0.199182	0.124467	0.017484	0.005870	0.020172	0.031831	0.001999	0.002027	0.004724	0.000704	0.000991
Parking Lot	0.546418	0.044132	0.199182	0.124467	0.017484	0.005870	0.020172	0.031831	0.001999	0.002027	0.004724	0.000704	0.000991
Apartment's Mid Rise	0.546418	0.044132	0.199182	0.124467	0.017484	0.005870	0.020172	0.031831	0.001999	0.002027	0.004724	0.000704	0.000991

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
tons/yr																
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	205.9974	205.9974	4.5100e-003	9.3000e-004	206.3879
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	205.9974	205.9974	4.5100e-003	9.3000e-004	206.3879
Natural Gas Mitigated	3.3500e-003	0.0287	0.0131	1.8000e-004		2.3100e-003	2.3100e-003		2.3100e-003	2.3100e-003	0.0000	33.1116	33.1116	6.3000e-004	6.1000e-004	33.3084
Natural Gas Unmitigated	3.3500e-003	0.0287	0.0131	1.8000e-004		2.3100e-003	2.3100e-003		2.3100e-003	2.3100e-003	0.0000	33.1116	33.1116	6.3000e-004	6.1000e-004	33.3084

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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	576415	3.1100e-003	0.0266	0.0113	1.7000e-004	2.1500e-003	2.1500e-003	2.1500e-003	2.1500e-003	2.1500e-003	2.1500e-003	0.0000	30.7597	30.7597	5.9000e-004	5.6000e-004	30.9425
Day-Care Center	14850	8.0000e-005	7.3000e-004	6.1000e-004	0.0000	6.0000e-005	6.0000e-005	6.0000e-005	6.0000e-005	6.0000e-005	6.0000e-005	0.0000	0.7925	0.7925	2.0000e-005	1.0000e-005	0.7972
Office Park	29223	1.6000e-004	1.4300e-003	1.2000e-003	1.0000e-005	1.1000e-004	1.1000e-004	1.1000e-004	1.1000e-004	1.1000e-004	1.1000e-004	0.0000	1.5595	1.5595	3.0000e-005	3.0000e-005	1.5687
Parking Lot	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		3.3500e-003	0.0287	0.0131	1.8000e-004	2.3200e-003	2.3200e-003	2.3200e-003		2.3200e-003	2.3200e-003	0.0000	33.1116	33.1116	6.4000e-004	6.0000e-004	33.3084

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5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	576415	3.1100e-003	0.0266	0.0113	1.7000e-004	2.1500e-003	2.1500e-003	2.1500e-003	2.1500e-003	2.1500e-003	2.1500e-003	0.0000	30.7597	30.7597	5.9000e-004	5.6000e-004	30.9425
Day-Care Center	14850	8.0000e-005	7.3000e-004	6.1000e-004	0.0000	6.0000e-005	6.0000e-005	6.0000e-005	6.0000e-005	6.0000e-005	6.0000e-005	0.0000	0.7925	0.7925	2.0000e-005	1.0000e-005	0.7972
Office Park	29223	1.6000e-004	1.4300e-003	1.2000e-003	1.0000e-005	1.1000e-004	1.1000e-004	1.1000e-004	1.1000e-004	1.1000e-004	1.1000e-004	0.0000	1.5595	1.5595	3.0000e-005	3.0000e-005	1.5687
Parking Lot	0	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		3.3500e-003	0.0287	0.0131	1.8000e-004		2.3200e-003	2.3200e-003		2.3200e-003	2.3200e-003	0.0000	33.1116	33.1116	6.4000e-004	6.0000e-004	33.3084

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5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartment's Mid Rise	277253	166.7135	3.6500e- 003	7.5000e- 004	167.0295
Day-Care Center	13475	8.1026	1.8000e- 004	4.0000e- 005	8.1179
Office Park	14544	8.7454	1.9000e- 004	4.0000e- 005	8.7620
Parking Lot	37312	22.4359	4.9000e- 004	1.0000e- 004	22.4784
Total		205.9974	4.5100e- 003	9.3000e- 004	206.3878

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5.3 Energy by Land Use - Electricity**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	277253	166.7135	3.6500e- 003	7.5000e- 004	167.0295
Day-Care Center	13475	8.1026	1.8000e- 004	4.0000e- 005	8.1179
Office Park	14544	8.7454	1.9000e- 004	4.0000e- 005	8.7620
Parking Lot	37312	22.4359	4.9000e- 004	1.0000e- 004	22.4784
Total		205.9974	4.5100e- 003	9.3000e- 004	206.3878

6.0 Area Detail**6.1 Mitigation Measures Area**

Use Low VOC Paint - Residential Interior
 Use Low VOC Paint - Residential Exterior
 Use Low VOC Paint - Non-Residential Interior
 Use Low VOC Paint - Non-Residential Exterior
 Use Low VOC Cleaning Supplies

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2932	7.8200e-003	0.6751	4.0000e-005	3.7000e-003	3.7000e-003	3.7000e-003	3.7000e-003	3.7000e-003	3.7000e-003	0.0000	1.0977	1.0977	1.0800e-003	0.0000	1.1247
Unmitigated	0.2932	7.8200e-003	0.6751	4.0000e-005	3.7000e-003	3.7000e-003	3.7000e-003	3.7000e-003	3.7000e-003	3.7000e-003	0.0000	1.0977	1.0977	1.0800e-003	0.0000	1.1247

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	0.0225					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2499					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	0.0208	7.8200e-003	0.6751	4.0000e-005		3.7000e-003	3.7000e-003		3.7000e-003	3.7000e-003	0.0000	1.0977	1.0977	1.0800e-003	0.0000	1.1247
Total	0.2932	7.8200e-003	0.6751	4.0000e-005		3.7000e-003	3.7000e-003		3.7000e-003	3.7000e-003	0.0000	1.0977	1.0977	1.0800e-003	0.0000	1.1247

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6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0225					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2499					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	0.0208	7.8200e-003	0.6751	4.0000e-005		3.7000e-003	3.7000e-003		3.7000e-003	3.7000e-003	0.0000	1.0977	1.0977	1.0800e-003	0.0000	1.1247
Total	0.2932	7.8200e-003	0.6751	4.0000e-005		3.7000e-003	3.7000e-003		3.7000e-003	3.7000e-003	0.0000	1.0977	1.0977	1.0800e-003	0.0000	1.1247

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	57.0118	0.1479	3.7200e-003	61.8171
Unmitigated	57.0118	0.1479	3.7200e-003	61.8171

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	4.23501 / 2.6699	52.3382	0.1391	3.4900e-003	56.8559
Day-Care Center	0.107224 / 0.275719	2.7155	3.5000e-003	9.0000e-005	2.8325
Office Park	0.15996 / 0.0980402	1.9581	5.2500e-003	1.3000e-004	2.1287
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		57.0118	0.1479	3.7100e-003	61.8171

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	4.23501 / 2.6699	52.3382	0.1391	3.4900e-003	56.8559
Day-Care Center	0.107224 / 0.275719	2.7155	3.5500e-003	9.0000e-005	2.8325
Office Park	0.15996 / 0.0980402	1.9581	5.2500e-003	1.3000e-004	2.1287
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		57.0118	0.1479	3.7100e-003	61.8171

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.8997	0.4078	0.0000	17.0936
Unmitigated	6.8997	0.4078	0.0000	17.0936

8.2 Waste by Land UseUnmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	29.9	6.0694	0.3587	0.0000	15.0368
Day-Care Center	3.25	0.6597	0.0390	0.0000	1.6344
Office Park	0.84	0.1705	0.0101	0.0000	0.4224
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		6.8997	0.4078	0.0000	17.0936

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	29.9	6.0694	0.3587	0.0000	15.0368
Day-Care Center	3.25	0.6597	0.0390	0.0000	1.6344
Office Park	0.84	0.1705	0.0101	0.0000	0.4224
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		6.8997	0.4078	0.0000	17.0936

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
