

Walnut Grove Residential Project - Los Angeles-South Coast County, Winter

Walnut Grove Residential Project
Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	99.00	Space	0.89	39,600.00	0
City Park	0.27	Acre	0.27	11,761.20	0
Condo/Townhouse	92.00	Dwelling Unit	3.60	181,823.00	263
Single Family Housing	66.00	Dwelling Unit	4.38	139,832.00	189

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9	Operational Year	2022		
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Per Site Plan and Specific Plan

Construction Phase - Per Data Needs

Off-road Equipment - default

Off-road Equipment - 2 excavators, 3 tractor/loader/backhoe

Off-road Equipment - 2 excavators, 2 loader/backhoes, 1 sweeper

Off-road Equipment - 4 scrapers, 1 dozer, 1 sweeper

Off-road Equipment - .

Off-road Equipment - 1 dozer

Trips and VMT - .

Demolition -

Grading - Per Submittal #2 Preliminary Grading Plan

Vehicle Trips - Per Traffic Engineer

Woodstoves - No wood burning fireplaces, per SCAQMD Rule 445.

Construction Off-road Equipment Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	173.00
tblConstructionPhase	NumDays	230.00	173.00
tblConstructionPhase	NumDays	20.00	53.00
tblConstructionPhase	NumDays	20.00	31.00
tblConstructionPhase	NumDays	20.00	12.00
tblConstructionPhase	NumDays	10.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	4.60	0.00
tblFireplaces	NumberWood	3.30	0.00
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02

tblFleetMix	LDA	0.55	0.64
tblFleetMix	LDA	0.55	0.64
tblFleetMix	LDT1	0.04	0.05
tblFleetMix	LDT1	0.04	0.05
tblFleetMix	LDT2	0.20	0.12
tblFleetMix	LDT2	0.20	0.12
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	6.1960e-003	6.7430e-003
tblFleetMix	LHD2	6.1960e-003	6.7430e-003
tblFleetMix	MCY	5.1420e-003	5.6180e-003
tblFleetMix	MCY	5.1420e-003	5.6180e-003
tblFleetMix	MDV	0.12	0.10
tblFleetMix	MDV	0.12	0.10
tblFleetMix	MH	8.7600e-004	1.2110e-003
tblFleetMix	MH	8.7600e-004	1.2110e-003
tblFleetMix	MHD	0.02	0.03
tblFleetMix	MHD	0.02	0.03
tblFleetMix	OBUS	2.5150e-003	1.9040e-003
tblFleetMix	OBUS	2.5150e-003	1.9040e-003
tblFleetMix	SBUS	6.8700e-004	6.7800e-004
tblFleetMix	SBUS	6.8700e-004	6.7800e-004
tblFleetMix	UBUS	2.2010e-003	1.8990e-003
tblFleetMix	UBUS	2.2010e-003	1.8990e-003
tblGrading	MaterialImported	0.00	9,750.00
tblLandUse	LandUseSquareFeet	92,000.00	181,823.00
tblLandUse	LandUseSquareFeet	118,800.00	139,832.00
tblLandUse	LotAcreage	5.75	3.60
tblLandUse	LotAcreage	21.43	4.38
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	5.67	5.30
tblVehicleTrips	ST_TR	9.91	9.83
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	4.84	4.53
tblVehicleTrips	SU_TR	8.62	8.55
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	5.81	5.43
tblVehicleTrips	WD_TR	9.52	9.44
tblWoodstoves	NumberCatalytic	4.60	0.00
tblWoodstoves	NumberCatalytic	3.30	0.00
tblWoodstoves	NumberNoncatalytic	4.60	0.00
tblWoodstoves	NumberNoncatalytic	3.30	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	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										lb/day					
2021	15.0819	66.5657	37.1825	0.1035	11.1549	2.3835	13.5384	4.0066	2.1940	6.2006	0.0000	10,376.7981	10,376.7981	2.4848	0.0000	10,438.9178
Maximum	15.0819	66.5657	37.1825	0.1035	11.1549	2.3835	13.5384	4.0066	2.1940	6.2006	0.0000	10,376.7981	10,376.7981	2.4848	0.0000	10,438.9178

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	15.0819	66.5657	37.1825	0.1035	4.8721	2.3835	7.2556	1.7047	2.1940	3.8987	0.0000	10,376.7981	10,376.7981	2.4848	0.0000	10,438.9178
Maximum	15.0819	66.5657	37.1825	0.1035	4.8721	2.3835	7.2556	1.7047	2.1940	3.8987	0.0000	10,376.7981	10,376.7981	2.4848	0.0000	10,438.9178

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Percent Reduction	0.00	0.00	0.00	0.00	56.32	0.00	46.41	57.45	0.00	37.12	0.00	0.00	0.00	0.00	0.00	0.00
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2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.5936	2.3784	14.0074	0.0149		0.2523	0.2523		0.2523	0.2523	0.0000	2,867.4930	2,867.4930	0.0772	0.0521	2,884.9610
Energy	0.1003	0.8568	0.3646	5.4700e-003		0.0693	0.0693		0.0693	0.0693		1,093.8168	1,093.8168	0.0210	0.0201	1,100.3168
Mobile	1.9829	8.2091	26.1059	0.0916	8.3484	0.0794	8.4277	2.2361	0.0740	2.3101		9,293.2158	9,293.2158	0.4545		9,304.5792
Total	9.6768	11.4443	40.4779	0.1120	8.3484	0.4009	8.7493	2.2361	0.3955	2.6316	0.0000	13,254.5255	13,254.5255	0.5527	0.0722	13,289.8570

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.5936	2.3784	14.0074	0.0149		0.2523	0.2523		0.2523	0.2523	0.0000	2,867.4930	2,867.4930	0.0772	0.0521	2,884.9610
Energy	0.1003	0.8568	0.3646	5.4700e-003		0.0693	0.0693		0.0693	0.0693		1,093.8168	1,093.8168	0.0210	0.0201	1,100.3168
Mobile	1.9829	8.2091	26.1059	0.0916	8.3484	0.0794	8.4277	2.2361	0.0740	2.3101		9,293.2158	9,293.2158	0.4545		9,304.5792
Total	9.6768	11.4443	40.4779	0.1120	8.3484	0.4009	8.7493	2.2361	0.3955	2.6316	0.0000	13,254.5255	13,254.5255	0.5527	0.0722	13,289.8570

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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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
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3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2021	4/30/2021	6	53	
2	Site Preparation	Site Preparation	5/1/2021	5/7/2021	6	6	
3	Grading	Grading	5/8/2021	6/13/2021	6	31	
4	Building Construction	Building Construction	6/14/2021	12/31/2021	6	173	
5	Architectural Coating	Architectural Coating	6/14/2021	12/31/2021	6	173	
6	Paving	Paving	11/1/2021	11/13/2021	6	12	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 124

Acres of Paving: 0.89

Residential Indoor: 651,351; Residential Outdoor: 217,117; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	2	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Sweepers/Scrubbers	1	8.00	64	0.46
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41

Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	4	8.00	367	0.48
Grading	Sweepers/Scrubbers	1	8.00	64	0.46
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	0	7.00	231	0.29
Building Construction	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Sweepers/Scrubbers	1	8.00	64	0.46
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	198.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	1,219.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	112.00	25.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	22.00	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

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8075	0.0000	0.8075	0.1223	0.0000	0.1223			0.0000			0.0000
Off-Road	1.0615	10.1556	13.0151	0.0191		0.5837	0.5837		0.5370	0.5370		1,848.3605	1,848.3605	0.5978		1,863.3054
Total	1.0615	10.1556	13.0151	0.0191	0.8075	0.5837	1.3912	0.1223	0.5370	0.6593		1,848.3605	1,848.3605	0.5978		1,863.3054

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	0.0319	1.0144	0.2492	2.8600e-003	0.0653	3.1200e-003	0.0685	0.0179	2.9900e-003	0.0209		310.7416	310.7416	0.0222		311.2970
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0620	0.0424	0.4787	1.4000e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		139.3926	139.3926	4.1000e-003		139.4952
Total	0.0939	1.0568	0.7279	4.2600e-003	0.2106	4.2900e-003	0.2149	0.0565	4.0700e-003	0.0605		450.1343	450.1343	0.0263		450.7922

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3149	0.0000	0.3149	0.0477	0.0000	0.0477			0.0000			0.0000
Off-Road	1.0615	10.1556	13.0151	0.0191		0.5837	0.5837		0.5370	0.5370	0.0000	1,848.3605	1,848.3605	0.5978		1,863.3054
Total	1.0615	10.1556	13.0151	0.0191	0.3149	0.5837	0.8987	0.0477	0.5370	0.5847	0.0000	1,848.3605	1,848.3605	0.5978		1,863.3054

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	0.0319	1.0144	0.2492	2.8600e-003	0.0653	3.1200e-003	0.0685	0.0179	2.9900e-003	0.0209		310.7416	310.7416	0.0222		311.2970
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0620	0.0424	0.4787	1.4000e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		139.3926	139.3926	4.1000e-003		139.4952
Total	0.0939	1.0568	0.7279	4.2600e-003	0.2106	4.2900e-003	0.2149	0.0565	4.0700e-003	0.0605		450.1343	450.1343	0.0263		450.7922

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000

Off-Road	1.0464	10.9713	4.0378	8.5300e-003		0.5325	0.5325		0.4899	0.4899		827.3522	827.3522	0.2676		834.0418
Total	1.0464	10.9713	4.0378	8.5300e-003	6.0221	0.5325	6.5545	3.3102	0.4899	3.8001		827.3522	827.3522	0.2676		834.0418

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	0.0143	9.7800e-003	0.1105	3.2000e-004	0.0335	2.7000e-004	0.0338	8.8900e-003	2.5000e-004	9.1400e-003		32.1675	32.1675	9.5000e-004		32.1912
Total	0.0143	9.7800e-003	0.1105	3.2000e-004	0.0335	2.7000e-004	0.0338	8.8900e-003	2.5000e-004	9.1400e-003		32.1675	32.1675	9.5000e-004		32.1912

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910			0.0000			0.0000
Off-Road	1.0464	10.9713	4.0378	8.5300e-003		0.5325	0.5325		0.4899	0.4899	0.0000	827.3522	827.3522	0.2676		834.0418
Total	1.0464	10.9713	4.0378	8.5300e-003	2.3486	0.5325	2.8811	1.2910	0.4899	1.7809	0.0000	827.3522	827.3522	0.2676		834.0418

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	0.0143	9.7800e-003	0.1105	3.2000e-004	0.0335	2.7000e-004	0.0338	8.8900e-003	2.5000e-004	9.1400e-003		32.1675	32.1675	9.5000e-004		32.1912
Total	0.0143	9.7800e-003	0.1105	3.2000e-004	0.0335	2.7000e-004	0.0338	8.8900e-003	2.5000e-004	9.1400e-003		32.1675	32.1675	9.5000e-004		32.1912

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					10.2997	0.0000	10.2997	3.7737	0.0000	3.7737			0.0000			0.0000
Off-Road	4.9928	55.8396	34.0076	0.0717		2.3493	2.3493		2.1613	2.1613		6,945.1747	6,945.1747	2.2462		7,001.3299
Total	4.9928	55.8396	34.0076	0.0717	10.2997	2.3493	12.6489	3.7737	2.1613	5.9350		6,945.1747	6,945.1747	2.2462		7,001.3299

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	0.4073	10.7262	3.1749	0.0318	0.8552	0.0342	0.8895	0.2330	0.0327	0.2656		3,431.6235	3,431.6235	0.2386		3,437.5879

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9500	9.2833	12.4767	0.0185		0.5023	0.5023		0.4621	0.4621		1,790.2466	1,790.2466	0.5790		1,804.7217
Total	0.9500	9.2833	12.4767	0.0185		0.5023	0.5023		0.4621	0.4621		1,790.2466	1,790.2466	0.5790		1,804.7217

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	0.0798	2.4222	0.7019	6.2600e-003	0.1601	5.1200e-003	0.1652	0.0461	4.9000e-003	0.0510		668.3638	668.3638	0.0432		669.4425
Worker	0.5340	0.3653	4.1245	0.0121	1.2519	0.0101	1.2620	0.3320	9.3200e-003	0.3413		1,200.9212	1,200.9212	0.0353		1,201.8047
Total	0.6138	2.7875	4.8264	0.0183	1.4120	0.0152	1.4272	0.3781	0.0142	0.3923		1,869.2850	1,869.2850	0.0785		1,871.2472

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	0.9500	9.2833	12.4767	0.0185		0.5023	0.5023		0.4621	0.4621	0.0000	1,790.2466	1,790.2466	0.5790			1,804.7217
Total	0.9500	9.2833	12.4767	0.0185		0.5023	0.5023		0.4621	0.4621	0.0000	1,790.2466	1,790.2466	0.5790			1,804.7217

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	0.0798	2.4222	0.7019	6.2600e-003	0.1601	5.1200e-003	0.1652	0.0461	4.9000e-003	0.0510		668.3638	668.3638	0.0432			669.4425
Worker	0.5340	0.3653	4.1245	0.0121	1.2519	0.0101	1.2620	0.3320	9.3200e-003	0.3413		1,200.9212	1,200.9212	0.0353			1,201.8047
Total	0.6138	2.7875	4.8264	0.0183	1.4120	0.0152	1.4272	0.3781	0.0142	0.3923		1,869.2850	1,869.2850	0.0785			1,871.2472

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day				
Archit. Coating	11.6976					0.0000	0.0000		0.0000	0.0000			0.0000		0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193	281.9309
Total	11.9165	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193	281.9309

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1049	0.0718	0.8102	2.3700e-003	0.2459	1.9900e-003	0.2479	0.0652	1.8300e-003	0.0671		235.8952	235.8952	6.9400e-003		236.0688
Total	0.1049	0.0718	0.8102	2.3700e-003	0.2459	1.9900e-003	0.2479	0.0652	1.8300e-003	0.0671		235.8952	235.8952	6.9400e-003		236.0688

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	11.6976					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

Total	11.9165	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
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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	0.1049	0.0718	0.8102	2.3700e-003	0.2459	1.9900e-003	0.2479	0.0652	1.8300e-003	0.0671		235.8952	235.8952	6.9400e-003		236.0688
Total	0.1049	0.0718	0.8102	2.3700e-003	0.2459	1.9900e-003	0.2479	0.0652	1.8300e-003	0.0671		235.8952	235.8952	6.9400e-003		236.0688

3.7 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2309	12.3083	13.7981	0.0202		0.7137	0.7137		0.6566	0.6566		1,951.5820	1,951.5820	0.6312		1,967.3615
Paving	0.1943					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4252	12.3083	13.7981	0.0202		0.7137	0.7137		0.6566	0.6566		1,951.5820	1,951.5820	0.6312		1,967.3615

Unmitigated Construction Off-Site

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2309	12.3083	13.7981	0.0202		0.7137	0.7137		0.6566	0.6566	0.0000	1,951.5820	1,951.5820	0.6312		1,967.3615
Paving	0.1943					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4252	12.3083	13.7981	0.0202		0.7137	0.7137		0.6566	0.6566	0.0000	1,951.5820	1,951.5820	0.6312		1,967.3615

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.9829	8.2091	26.1059	0.0916	8.3484	0.0794	8.4277	2.2361	0.0740	2.3101		9,293.2158	9,293.2158	0.4545		9,304.5792
Unmitigated	1.9829	8.2091	26.1059	0.0916	8.3484	0.0794	8.4277	2.2361	0.0740	2.3101		9,293.2158	9,293.2158	0.4545		9,304.5792

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Condo/Townhouse	499.56	487.60	416.76	1,660,814	1,660,814
Parking Lot	0.00	0.00	0.00		
Single Family Housing	623.04	648.78	564.30	2,112,913	2,112,913
Total	1,122.60	1,136.38	981.06	3,773,727	3,773,727

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Condo/Townhouse	0.642469	0.051443	0.116311	0.104680	0.020358	0.006743	0.028444	0.018243	0.001904	0.001899	0.005618	0.000678	0.001211
Parking Lot	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Single Family Housing	0.642469	0.051443	0.116311	0.104680	0.020358	0.006743	0.028444	0.018243	0.001904	0.001899	0.005618	0.000678	0.001211

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
	lb/day										lb/day					
NaturalGas Mitigated	0.1003	0.8568	0.3646	5.4700e-003		0.0693	0.0693		0.0693	0.0693		1,093.8168	1,093.8168	0.0210	0.0201	1,100.3168
NaturalGas Unmitigated	0.1003	0.8568	0.3646	5.4700e-003		0.0693	0.0693		0.0693	0.0693		1,093.8168	1,093.8168	0.0210	0.0201	1,100.3168

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas 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					
City Park	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
Condo/Townhouse	4329.43	0.0467	0.3990	0.1698	2.5500e-003		0.0323	0.0323		0.0323	0.0323		509.3452	509.3452	9.7600e-003	9.3400e-003	512.3720
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
Single Family Housing	4968.01	0.0536	0.4578	0.1948	2.9200e-003		0.0370	0.0370		0.0370	0.0370		584.4715	584.4715	0.0112	0.0107	587.9448
Total		0.1003	0.8568	0.3646	5.4700e-003		0.0693	0.0693		0.0693	0.0693		1,093.8168	1,093.8168	0.0210	0.0201	1,100.3168

Mitigated

	Natural Gas 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					
City Park	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
Condo/Townhouse	4.32943	0.0467	0.3990	0.1698	2.5500e-003		0.0323	0.0323		0.0323	0.0323		509.3452	509.3452	9.7600e-003	9.3400e-003	512.3720
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
Single Family Housing	4.96801	0.0536	0.4578	0.1948	2.9200e-003		0.0370	0.0370		0.0370	0.0370		584.4715	584.4715	0.0112	0.0107	587.9448
Total		0.1003	0.8568	0.3646	5.4700e-003		0.0693	0.0693		0.0693	0.0693		1,093.8168	1,093.8168	0.0210	0.0201	1,100.3168

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.5936	2.3784	14.0074	0.0149		0.2523	0.2523		0.2523	0.2523	0.0000	2,867.4930	2,867.4930	0.0772	0.0521	2,884.9610
Unmitigated	7.5936	2.3784	14.0074	0.0149		0.2523	0.2523		0.2523	0.2523	0.0000	2,867.4930	2,867.4930	0.0772	0.0521	2,884.9610

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	0.5544					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.3834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2607	2.2278	0.9480	0.0142		0.1801	0.1801		0.1801	0.1801	0.0000	2,844.0000	2,844.0000	0.0545	0.0521	2,860.9005
Landscaping	0.3951	0.1506	13.0594	6.9000e-004		0.0721	0.0721		0.0721	0.0721		23.4930	23.4930	0.0227		24.0605
Total	7.5936	2.3784	14.0074	0.0149		0.2523	0.2523		0.2523	0.2523	0.0000	2,867.4930	2,867.4930	0.0772	0.0521	2,884.9610

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	0.5544					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.3834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2607	2.2278	0.9480	0.0142		0.1801	0.1801		0.1801	0.1801	0.0000	2,844.0000	2,844.0000	0.0545	0.0521	2,860.9005
Landscaping	0.3951	0.1506	13.0594	6.9000e-004		0.0721	0.0721		0.0721	0.0721		23.4930	23.4930	0.0227		24.0605
Total	7.5936	2.3784	14.0074	0.0149		0.2523	0.2523		0.2523	0.2523	0.0000	2,867.4930	2,867.4930	0.0772	0.0521	2,884.9610

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Walnut Grove Residential Project - Los Angeles-South Coast County, Summer

Walnut Grove Residential Project
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	99.00	Space	0.89	39,600.00	0
City Park	0.27	Acre	0.27	11,761.20	0
Condo/Townhouse	92.00	Dwelling Unit	3.60	181,823.00	263
Single Family Housing	66.00	Dwelling Unit	4.38	139,832.00	189

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Per Site Plan and Specific Plan

Construction Phase - Per Data Needs

Off-road Equipment - default

Off-road Equipment - 2 excavators, 3 tractor/loader/backhoe

Off-road Equipment - 2 excavators, 2 loader/backhoes, 1 sweeper

Off-road Equipment - 4 scrapers, 1 dozer, 1 sweeper

Off-road Equipment - .

Off-road Equipment - 1 dozer

Trips and VMT - .

Demolition -

Grading - Per Submittal #2 Preliminary Grading Plan

Vehicle Trips - Per Traffic Engineer

Woodstoves - No wood burning fireplaces, per SCAQMD Rule 445.

Construction Off-road Equipment Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	173.00
tblConstructionPhase	NumDays	230.00	173.00
tblConstructionPhase	NumDays	20.00	53.00
tblConstructionPhase	NumDays	20.00	31.00
tblConstructionPhase	NumDays	20.00	12.00
tblConstructionPhase	NumDays	10.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	4.60	0.00
tblFireplaces	NumberWood	3.30	0.00
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02

tblFleetMix	LDA	0.55	0.64
tblFleetMix	LDA	0.55	0.64
tblFleetMix	LDT1	0.04	0.05
tblFleetMix	LDT1	0.04	0.05
tblFleetMix	LDT2	0.20	0.12
tblFleetMix	LDT2	0.20	0.12
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	6.1960e-003	6.7430e-003
tblFleetMix	LHD2	6.1960e-003	6.7430e-003
tblFleetMix	MCY	5.1420e-003	5.6180e-003
tblFleetMix	MCY	5.1420e-003	5.6180e-003
tblFleetMix	MDV	0.12	0.10
tblFleetMix	MDV	0.12	0.10
tblFleetMix	MH	8.7600e-004	1.2110e-003
tblFleetMix	MH	8.7600e-004	1.2110e-003
tblFleetMix	MHD	0.02	0.03
tblFleetMix	MHD	0.02	0.03
tblFleetMix	OBUS	2.5150e-003	1.9040e-003
tblFleetMix	OBUS	2.5150e-003	1.9040e-003
tblFleetMix	SBUS	6.8700e-004	6.7800e-004
tblFleetMix	SBUS	6.8700e-004	6.7800e-004
tblFleetMix	UBUS	2.2010e-003	1.8990e-003
tblFleetMix	UBUS	2.2010e-003	1.8990e-003
tblGrading	MaterialImported	0.00	9,750.00
tblLandUse	LandUseSquareFeet	92,000.00	181,823.00
tblLandUse	LandUseSquareFeet	118,800.00	139,832.00
tblLandUse	LotAcreage	5.75	3.60
tblLandUse	LotAcreage	21.43	4.38
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	5.67	5.30
tblVehicleTrips	ST_TR	9.91	9.83
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	4.84	4.53
tblVehicleTrips	SU_TR	8.62	8.55
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	5.81	5.43
tblVehicleTrips	WD_TR	9.52	9.44
tblWoodstoves	NumberCatalytic	4.60	0.00
tblWoodstoves	NumberCatalytic	3.30	0.00
tblWoodstoves	NumberNoncatalytic	4.60	0.00
tblWoodstoves	NumberNoncatalytic	3.30	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	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										lb/day					
2021	15.0064	66.4318	37.0849	0.1041	11.1549	2.3830	13.5379	4.0066	2.1936	6.2001	0.0000	10,444.4353	10,444.4353	2.4771	0.0000	10,506.3634
Maximum	15.0064	66.4318	37.0849	0.1041	11.1549	2.3830	13.5379	4.0066	2.1936	6.2001	0.0000	10,444.4353	10,444.4353	2.4771	0.0000	10,506.3634

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	15.0064	66.4318	37.0849	0.1041	4.8721	2.3830	7.2551	1.7047	2.1936	3.8982	0.0000	10,444.4353	10,444.4353	2.4771	0.0000	10,506.3634
Maximum	15.0064	66.4318	37.0849	0.1041	4.8721	2.3830	7.2551	1.7047	2.1936	3.8982	0.0000	10,444.4353	10,444.4353	2.4771	0.0000	10,506.3634

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Percent Reduction	0.00	0.00	0.00	0.00	56.32	0.00	46.41	57.45	0.00	37.13	0.00	0.00	0.00	0.00	0.00	0.00
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2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.5936	2.3784	14.0074	0.0149		0.2523	0.2523		0.2523	0.2523	0.0000	2,867.4930	2,867.4930	0.0772	0.0521	2,884.9610
Energy	0.1003	0.8568	0.3646	5.4700e-003		0.0693	0.0693		0.0693	0.0693		1,093.8168	1,093.8168	0.0210	0.0201	1,100.3168
Mobile	2.0451	7.9543	27.5790	0.0962	8.3484	0.0791	8.4275	2.2361	0.0737	2.3098		9,757.6994	9,757.6994	0.4585		9,769.1626
Total	9.7390	11.1895	41.9510	0.1166	8.3484	0.4007	8.7490	2.2361	0.3953	2.6314	0.0000	13,719.0091	13,719.0091	0.5567	0.0722	13,754.4404

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	7.5936	2.3784	14.0074	0.0149		0.2523	0.2523		0.2523	0.2523	0.0000	2,867.4930	2,867.4930	0.0772	0.0521	2,884.9610
Energy	0.1003	0.8568	0.3646	5.4700e-003		0.0693	0.0693		0.0693	0.0693		1,093.8168	1,093.8168	0.0210	0.0201	1,100.3168
Mobile	2.0451	7.9543	27.5790	0.0962	8.3484	0.0791	8.4275	2.2361	0.0737	2.3098		9,757.6994	9,757.6994	0.4585		9,769.1626
Total	9.7390	11.1895	41.9510	0.1166	8.3484	0.4007	8.7490	2.2361	0.3953	2.6314	0.0000	13,719.0091	13,719.0091	0.5567	0.0722	13,754.4404

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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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
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3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2021	4/30/2021	6	53	
2	Site Preparation	Site Preparation	5/1/2021	5/7/2021	6	6	
3	Grading	Grading	5/8/2021	6/13/2021	6	31	
4	Building Construction	Building Construction	6/14/2021	12/31/2021	6	173	
5	Architectural Coating	Architectural Coating	6/14/2021	12/31/2021	6	173	
6	Paving	Paving	11/1/2021	11/13/2021	6	12	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 124

Acres of Paving: 0.89

Residential Indoor: 651,351; Residential Outdoor: 217,117; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	2	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Sweepers/Scrubbers	1	8.00	64	0.46
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41

Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	4	8.00	367	0.48
Grading	Sweepers/Scrubbers	1	8.00	64	0.46
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	0	7.00	231	0.29
Building Construction	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Sweepers/Scrubbers	1	8.00	64	0.46
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	198.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	1,219.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	112.00	25.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	22.00	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

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8075	0.0000	0.8075	0.1223	0.0000	0.1223			0.0000			0.0000
Off-Road	1.0615	10.1556	13.0151	0.0191		0.5837	0.5837		0.5370	0.5370		1,848.3605	1,848.3605	0.5978		1,863.3054
Total	1.0615	10.1556	13.0151	0.0191	0.8075	0.5837	1.3912	0.1223	0.5370	0.6593		1,848.3605	1,848.3605	0.5978		1,863.3054

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	0.0312	1.0021	0.2350	2.9100e-003	0.0653	3.0800e-003	0.0684	0.0179	2.9400e-003	0.0209		316.2196	316.2196	0.0215		316.7560
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0557	0.0383	0.5236	1.4900e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		148.0401	148.0401	4.3600e-003		148.1491
Total	0.0869	1.0404	0.7586	4.4000e-003	0.2106	4.2500e-003	0.2149	0.0565	4.0200e-003	0.0605		464.2596	464.2596	0.0258		464.9052

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3149	0.0000	0.3149	0.0477	0.0000	0.0477			0.0000			0.0000
Off-Road	1.0615	10.1556	13.0151	0.0191		0.5837	0.5837		0.5370	0.5370	0.0000	1,848.3605	1,848.3605	0.5978		1,863.3054
Total	1.0615	10.1556	13.0151	0.0191	0.3149	0.5837	0.8987	0.0477	0.5370	0.5847	0.0000	1,848.3605	1,848.3605	0.5978		1,863.3054

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	0.0312	1.0021	0.2350	2.9100e-003	0.0653	3.0800e-003	0.0684	0.0179	2.9400e-003	0.0209		316.2196	316.2196	0.0215		316.7560
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0557	0.0383	0.5236	1.4900e-003	0.1453	1.1700e-003	0.1465	0.0385	1.0800e-003	0.0396		148.0401	148.0401	4.3600e-003		148.1491
Total	0.0869	1.0404	0.7586	4.4000e-003	0.2106	4.2500e-003	0.2149	0.0565	4.0200e-003	0.0605		464.2596	464.2596	0.0258		464.9052

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000

Off-Road	1.0464	10.9713	4.0378	8.5300e-003		0.5325	0.5325		0.4899	0.4899		827.3522	827.3522	0.2676		834.0418
Total	1.0464	10.9713	4.0378	8.5300e-003	6.0221	0.5325	6.5545	3.3102	0.4899	3.8001		827.3522	827.3522	0.2676		834.0418

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	0.0129	8.8400e-003	0.1208	3.4000e-004	0.0335	2.7000e-004	0.0338	8.8900e-003	2.5000e-004	9.1400e-003		34.1631	34.1631	1.0100e-003		34.1883
Total	0.0129	8.8400e-003	0.1208	3.4000e-004	0.0335	2.7000e-004	0.0338	8.8900e-003	2.5000e-004	9.1400e-003		34.1631	34.1631	1.0100e-003		34.1883

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.3486	0.0000	2.3486	1.2910	0.0000	1.2910			0.0000			0.0000
Off-Road	1.0464	10.9713	4.0378	8.5300e-003		0.5325	0.5325		0.4899	0.4899	0.0000	827.3522	827.3522	0.2676		834.0418
Total	1.0464	10.9713	4.0378	8.5300e-003	2.3486	0.5325	2.8811	1.2910	0.4899	1.7809	0.0000	827.3522	827.3522	0.2676		834.0418

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	0.0129	8.8400e-003	0.1208	3.4000e-004	0.0335	2.7000e-004	0.0338	8.8900e-003	2.5000e-004	9.1400e-003		34.1631	34.1631	1.0100e-003		34.1883
Total	0.0129	8.8400e-003	0.1208	3.4000e-004	0.0335	2.7000e-004	0.0338	8.8900e-003	2.5000e-004	9.1400e-003		34.1631	34.1631	1.0100e-003		34.1883

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					10.2997	0.0000	10.2997	3.7737	0.0000	3.7737			0.0000			0.0000
Off-Road	4.9928	55.8396	34.0076	0.0717		2.3493	2.3493		2.1613	2.1613		6,945.1747	6,945.1747	2.2462		7,001.3299
Total	4.9928	55.8396	34.0076	0.0717	10.2997	2.3493	12.6489	3.7737	2.1613	5.9350		6,945.1747	6,945.1747	2.2462		7,001.3299

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	0.3922	10.5922	3.0774	0.0324	0.8552	0.0337	0.8890	0.2330	0.0322	0.2652		3,499.2607	3,499.2607	0.2309		3,505.0335

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9500	9.2833	12.4767	0.0185		0.5023	0.5023		0.4621	0.4621		1,790.2466	1,790.2466	0.5790		1,804.7217
Total	0.9500	9.2833	12.4767	0.0185		0.5023	0.5023		0.4621	0.4621		1,790.2466	1,790.2466	0.5790		1,804.7217

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	0.0760	2.4272	0.6345	6.4300e-003	0.1601	4.9600e-003	0.1650	0.0461	4.7500e-003	0.0508		687.2016	687.2016	0.0405		688.2137
Worker	0.4801	0.3300	4.5111	0.0128	1.2519	0.0101	1.2620	0.3320	9.3200e-003	0.3413		1,275.4222	1,275.4222	0.0376		1,276.3617
Total	0.5561	2.7572	5.1456	0.0192	1.4120	0.0151	1.4270	0.3781	0.0141	0.3922		1,962.6238	1,962.6238	0.0781		1,964.5754

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	0.9500	9.2833	12.4767	0.0185		0.5023	0.5023		0.4621	0.4621	0.0000	1,790.2466	1,790.2466	0.5790			1,804.7217
Total	0.9500	9.2833	12.4767	0.0185		0.5023	0.5023		0.4621	0.4621	0.0000	1,790.2466	1,790.2466	0.5790			1,804.7217

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	0.0760	2.4272	0.6345	6.4300e-003	0.1601	4.9600e-003	0.1650	0.0461	4.7500e-003	0.0508		687.2016	687.2016	0.0405			688.2137
Worker	0.4801	0.3300	4.5111	0.0128	1.2519	0.0101	1.2620	0.3320	9.3200e-003	0.3413		1,275.4222	1,275.4222	0.0376			1,276.3617
Total	0.5561	2.7572	5.1456	0.0192	1.4120	0.0151	1.4270	0.3781	0.0141	0.3922		1,962.6238	1,962.6238	0.0781			1,964.5754

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Archit. Coating	11.6976					0.0000	0.0000		0.0000	0.0000			0.0000		0.0000	
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193	281.9309	
Total	11.9165	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941			281.4481	281.4481	0.0193	281.9309

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0943	0.0648	0.8861	2.5200e-003	0.2459	1.9900e-003	0.2479	0.0652	1.8300e-003	0.0671		250.5294	250.5294	7.3800e-003		250.7139
Total	0.0943	0.0648	0.8861	2.5200e-003	0.2459	1.9900e-003	0.2479	0.0652	1.8300e-003	0.0671		250.5294	250.5294	7.3800e-003		250.7139

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	11.6976						0.0000	0.0000		0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003			0.0941	0.0941		0.0941	0.0000	281.4481	281.4481	0.0193		281.9309

Total	11.9165	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
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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	0.0943	0.0648	0.8861	2.5200e-003	0.2459	1.9900e-003	0.2479	0.0652	1.8300e-003	0.0671		250.5294	250.5294	7.3800e-003		250.7139
Total	0.0943	0.0648	0.8861	2.5200e-003	0.2459	1.9900e-003	0.2479	0.0652	1.8300e-003	0.0671		250.5294	250.5294	7.3800e-003		250.7139

3.7 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2309	12.3083	13.7981	0.0202		0.7137	0.7137		0.6566	0.6566		1,951.5820	1,951.5820	0.6312		1,967.3615
Paving	0.1943					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4252	12.3083	13.7981	0.0202		0.7137	0.7137		0.6566	0.6566		1,951.5820	1,951.5820	0.6312		1,967.3615

Unmitigated Construction Off-Site

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

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2309	12.3083	13.7981	0.0202		0.7137	0.7137		0.6566	0.6566	0.0000	1,951.5820	1,951.5820	0.6312		1,967.3615
Paving	0.1943					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4252	12.3083	13.7981	0.0202		0.7137	0.7137		0.6566	0.6566	0.0000	1,951.5820	1,951.5820	0.6312		1,967.3615

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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.0451	7.9543	27.5790	0.0962	8.3484	0.0791	8.4275	2.2361	0.0737	2.3098		9,757.6994	9,757.6994	0.4585		9,769.1626
Unmitigated	2.0451	7.9543	27.5790	0.0962	8.3484	0.0791	8.4275	2.2361	0.0737	2.3098		9,757.6994	9,757.6994	0.4585		9,769.1626

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Condo/Townhouse	499.56	487.60	416.76	1,660,814	1,660,814
Parking Lot	0.00	0.00	0.00		
Single Family Housing	623.04	648.78	564.30	2,112,913	2,112,913
Total	1,122.60	1,136.38	981.06	3,773,727	3,773,727

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Condo/Townhouse	0.642469	0.051443	0.116311	0.104680	0.020358	0.006743	0.028444	0.018243	0.001904	0.001899	0.005618	0.000678	0.001211
Parking Lot	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Single Family Housing	0.642469	0.051443	0.116311	0.104680	0.020358	0.006743	0.028444	0.018243	0.001904	0.001899	0.005618	0.000678	0.001211

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
	lb/day										lb/day					
NaturalGas Mitigated	0.1003	0.8568	0.3646	5.4700e-003		0.0693	0.0693		0.0693	0.0693		1,093.8168	1,093.8168	0.0210	0.0201	1,100.3168
NaturalGas Unmitigated	0.1003	0.8568	0.3646	5.4700e-003		0.0693	0.0693		0.0693	0.0693		1,093.8168	1,093.8168	0.0210	0.0201	1,100.3168

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas 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					
City Park	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
Condo/Townhouse	4329.43	0.0467	0.3990	0.1698	2.5500e-003		0.0323	0.0323		0.0323	0.0323		509.3452	509.3452	9.7600e-003	9.3400e-003	512.3720
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
Single Family Housing	4968.01	0.0536	0.4578	0.1948	2.9200e-003		0.0370	0.0370		0.0370	0.0370		584.4715	584.4715	0.0112	0.0107	587.9448
Total		0.1003	0.8568	0.3646	5.4700e-003		0.0693	0.0693		0.0693	0.0693		1,093.8168	1,093.8168	0.0210	0.0201	1,100.3168

Mitigated

	Natural Gas 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					
City Park	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
Condo/Townhouse	4.32943	0.0467	0.3990	0.1698	2.5500e-003		0.0323	0.0323		0.0323	0.0323		509.3452	509.3452	9.7600e-003	9.3400e-003	512.3720
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
Single Family Housing	4.96801	0.0536	0.4578	0.1948	2.9200e-003		0.0370	0.0370		0.0370	0.0370		584.4715	584.4715	0.0112	0.0107	587.9448
Total		0.1003	0.8568	0.3646	5.4700e-003		0.0693	0.0693		0.0693	0.0693		1,093.8168	1,093.8168	0.0210	0.0201	1,100.3168

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	7.5936	2.3784	14.0074	0.0149		0.2523	0.2523		0.2523	0.2523	0.0000	2,867.4930	2,867.4930	0.0772	0.0521	2,884.9610
Unmitigated	7.5936	2.3784	14.0074	0.0149		0.2523	0.2523		0.2523	0.2523	0.0000	2,867.4930	2,867.4930	0.0772	0.0521	2,884.9610

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	0.5544					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.3834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2607	2.2278	0.9480	0.0142		0.1801	0.1801		0.1801	0.1801	0.0000	2,844.0000	2,844.0000	0.0545	0.0521	2,860.9005
Landscaping	0.3951	0.1506	13.0594	6.9000e-004		0.0721	0.0721		0.0721	0.0721		23.4930	23.4930	0.0227		24.0605
Total	7.5936	2.3784	14.0074	0.0149		0.2523	0.2523		0.2523	0.2523	0.0000	2,867.4930	2,867.4930	0.0772	0.0521	2,884.9610

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	0.5544					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	6.3834					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2607	2.2278	0.9480	0.0142		0.1801	0.1801		0.1801	0.1801	0.0000	2,844.0000	2,844.0000	0.0545	0.0521	2,860.9005
Landscaping	0.3951	0.1506	13.0594	6.9000e-004		0.0721	0.0721		0.0721	0.0721		23.4930	23.4930	0.0227		24.0605
Total	7.5936	2.3784	14.0074	0.0149		0.2523	0.2523		0.2523	0.2523	0.0000	2,867.4930	2,867.4930	0.0772	0.0521	2,884.9610

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Walnut Grove Residential Project - Los Angeles-South Coast County, Annual

Walnut Grove Residential Project
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	99.00	Space	0.89	39,600.00	0
City Park	0.27	Acre	0.27	11,761.20	0
Condo/Townhouse	92.00	Dwelling Unit	3.60	181,823.00	263
Single Family Housing	66.00	Dwelling Unit	4.38	139,832.00	189

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Per Site Plan and Specific Plan

Construction Phase - Per Data Needs

Off-road Equipment - default

Off-road Equipment - 2 excavators, 3 tractor/loader/backhoe

Off-road Equipment - 2 excavators, 2 loader/backhoes, 1 sweeper

Off-road Equipment - 4 scrapers, 1 dozer, 1 sweeper

Off-road Equipment - .

Off-road Equipment - 1 dozer

Trips and VMT - .

Demolition -

Grading - Per Submittal #2 Preliminary Grading Plan

Vehicle Trips - Per Traffic Engineer

Woodstoves - No wood burning fireplaces, per SCAQMD Rule 445.

Construction Off-road Equipment Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	173.00
tblConstructionPhase	NumDays	230.00	173.00
tblConstructionPhase	NumDays	20.00	53.00
tblConstructionPhase	NumDays	20.00	31.00
tblConstructionPhase	NumDays	20.00	12.00
tblConstructionPhase	NumDays	10.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	4.60	0.00
tblFireplaces	NumberWood	3.30	0.00
tblFleetMix	HHD	0.03	0.02
tblFleetMix	HHD	0.03	0.02

tblFleetMix	LDA	0.55	0.64
tblFleetMix	LDA	0.55	0.64
tblFleetMix	LDT1	0.04	0.05
tblFleetMix	LDT1	0.04	0.05
tblFleetMix	LDT2	0.20	0.12
tblFleetMix	LDT2	0.20	0.12
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD1	0.02	0.02
tblFleetMix	LHD2	6.1960e-003	6.7430e-003
tblFleetMix	LHD2	6.1960e-003	6.7430e-003
tblFleetMix	MCY	5.1420e-003	5.6180e-003
tblFleetMix	MCY	5.1420e-003	5.6180e-003
tblFleetMix	MDV	0.12	0.10
tblFleetMix	MDV	0.12	0.10
tblFleetMix	MH	8.7600e-004	1.2110e-003
tblFleetMix	MH	8.7600e-004	1.2110e-003
tblFleetMix	MHD	0.02	0.03
tblFleetMix	MHD	0.02	0.03
tblFleetMix	OBUS	2.5150e-003	1.9040e-003
tblFleetMix	OBUS	2.5150e-003	1.9040e-003
tblFleetMix	SBUS	6.8700e-004	6.7800e-004
tblFleetMix	SBUS	6.8700e-004	6.7800e-004
tblFleetMix	UBUS	2.2010e-003	1.8990e-003
tblFleetMix	UBUS	2.2010e-003	1.8990e-003
tblGrading	MaterialImported	0.00	9,750.00
tblLandUse	LandUseSquareFeet	92,000.00	181,823.00
tblLandUse	LandUseSquareFeet	118,800.00	139,832.00
tblLandUse	LotAcreage	5.75	3.60
tblLandUse	LotAcreage	21.43	4.38
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	5.67	5.30
tblVehicleTrips	ST_TR	9.91	9.83
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	4.84	4.53
tblVehicleTrips	SU_TR	8.62	8.55
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	5.81	5.43
tblVehicleTrips	WD_TR	9.52	9.44
tblWoodstoves	NumberCatalytic	4.60	0.00
tblWoodstoves	NumberCatalytic	3.30	0.00
tblWoodstoves	NumberNoncatalytic	4.60	0.00
tblWoodstoves	NumberNoncatalytic	3.30	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

tblWoodstoves	WoodstoveWoodMass	999.60	0.00
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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					
2021	1.2956	2.6271	2.7709	6.0600e-003	0.3593	0.1115	0.4708	0.1146	0.1033	0.2179	0.0000	546.1613	546.1613	0.1077	0.0000	548.8527
Maximum	1.2956	2.6271	2.7709	6.0600e-003	0.3593	0.1115	0.4708	0.1146	0.1033	0.2179	0.0000	546.1613	546.1613	0.1077	0.0000	548.8527

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					
2021	1.2956	2.6271	2.7709	6.0600e-003	0.2379	0.1115	0.3494	0.0709	0.1033	0.1742	0.0000	546.1609	546.1609	0.1077	0.0000	548.8524
Maximum	1.2956	2.6271	2.7709	6.0600e-003	0.2379	0.1115	0.3494	0.0709	0.1033	0.1742	0.0000	546.1609	546.1609	0.1077	0.0000	548.8524

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Percent Reduction	0.00	0.00	0.00	0.00	33.80	0.00	25.80	38.13	0.00	20.06	0.00	0.00	0.00	0.00	0.00	0.00
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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	3-1-2021	5-31-2021	1.0978	1.0978
2	6-1-2021	8-31-2021	1.3193	1.3193
3	9-1-2021	9-30-2021	0.3491	0.3491
		Highest	1.3193	1.3193

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.3188	0.0467	1.6443	2.6000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	34.9145	34.9145	3.1900e-003	5.9000e-004	35.1705
Energy	0.0183	0.1564	0.0665	1.0000e-003		0.0126	0.0126		0.0126	0.0126	0.0000	505.8586	505.8586	0.0169	6.0900e-003	508.0966
Mobile	0.3392	1.4625	4.6405	0.0163	1.4330	0.0139	1.4469	0.3845	0.0129	0.3974	0.0000	1,495.1889	1,495.1889	0.0721	0.0000	1,496.9912
Waste						0.0000	0.0000		0.0000	0.0000	24.3244	0.0000	24.3244	1.4375	0.0000	60.2627
Water						0.0000	0.0000		0.0000	0.0000	3.2659	66.8211	70.0871	0.3382	8.4900e-003	81.0724
Total	1.6763	1.6655	6.3513	0.0175	1.4330	0.0378	1.4708	0.3845	0.0368	0.4213	27.5903	2,102.7831	2,130.3735	1.8679	0.0152	2,181.5934

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
	Area	1.3188	0.0467	1.6443	2.6000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	34.9145	34.9145	3.1900e-003	5.9000e-004
Energy	0.0183	0.1564	0.0665	1.0000e-003		0.0126	0.0126		0.0126	0.0126	0.0000	505.8586	505.8586	0.0169	6.0900e-003	508.0966
Mobile	0.3392	1.4625	4.6405	0.0163	1.4330	0.0139	1.4469	0.3845	0.0129	0.3974	0.0000	1,495.1889	1,495.1889	0.0721	0.0000	1,496.9912
Waste						0.0000	0.0000		0.0000	0.0000	12.1622	0.0000	12.1622	0.7188	0.0000	30.1313
Water						0.0000	0.0000		0.0000	0.0000	3.2659	66.8211	70.0871	0.3382	8.4900e-003	81.0724
Total	1.6763	1.6655	6.3513	0.0175	1.4330	0.0378	1.4708	0.3845	0.0368	0.4213	15.4281	2,102.7831	2,118.2113	1.1491	0.0152	2,151.4620

	ROG	NOx	CO	SO2	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	44.08	0.00	0.57	38.48	0.00	1.38

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	3/1/2021	4/30/2021	6	53	
2	Site Preparation	Site Preparation	5/1/2021	5/7/2021	6	6	
3	Grading	Grading	5/8/2021	6/13/2021	6	31	
4	Building Construction	Building Construction	6/14/2021	12/31/2021	6	173	
5	Architectural Coating	Architectural Coating	6/14/2021	12/31/2021	6	173	
6	Paving	Paving	11/1/2021	11/13/2021	6	12	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 124

Acres of Paving: 0.89

Residential Indoor: 651,351; Residential Outdoor: 217,117; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	2	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Sweepers/Scrubbers	1	8.00	64	0.46
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	4	8.00	367	0.48
Grading	Sweepers/Scrubbers	1	8.00	64	0.46
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Building Construction	Cranes	0	7.00	231	0.29
Building Construction	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	0	8.00	89	0.20
Building Construction	Generator Sets	0	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Sweepers/Scrubbers	1	8.00	64	0.46
Paving	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	198.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	1,219.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	112.00	25.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	22.00	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

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0214	0.0000	0.0214	3.2400e-003	0.0000	3.2400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0281	0.2691	0.3449	5.1000e-004		0.0155	0.0155		0.0142	0.0142	0.0000	44.4353	44.4353	0.0144	0.0000	44.7946
Total	0.0281	0.2691	0.3449	5.1000e-004	0.0214	0.0155	0.0369	3.2400e-003	0.0142	0.0175	0.0000	44.4353	44.4353	0.0144	0.0000	44.7946

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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Worker	1.4800e-003	1.1500e-003	0.0130	4.0000e-005	3.7800e-003	3.0000e-005	3.8100e-003	1.0000e-003	3.0000e-005	1.0300e-003	0.0000	3.4068	3.4068	1.0000e-004	0.0000	3.4093
Total	2.3100e-003	0.0286	0.0194	1.2000e-004	5.4800e-003	1.1000e-004	5.5900e-003	1.4700e-003	1.1000e-004	1.5800e-003	0.0000	10.9536	10.9536	6.2000e-004	0.0000	10.9692

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0181	0.0000	0.0181	9.9300e-003	0.0000	9.9300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1400e-003	0.0329	0.0121	3.0000e-005		1.6000e-003	1.6000e-003		1.4700e-003	1.4700e-003	0.0000	2.2517	2.2517	7.3000e-004	0.0000	2.2699
Total	3.1400e-003	0.0329	0.0121	3.0000e-005	0.0181	1.6000e-003	0.0197	9.9300e-003	1.4700e-003	0.0114	0.0000	2.2517	2.2517	7.3000e-004	0.0000	2.2699

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	3.4000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0890	0.0890	0.0000	0.0000	0.0891
Total	4.0000e-005	3.0000e-005	3.4000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0890	0.0890	0.0000	0.0000	0.0891

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.0500e-003	0.0000	7.0500e-003	3.8700e-003	0.0000	3.8700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1400e-003	0.0329	0.0121	3.0000e-005		1.6000e-003	1.6000e-003		1.4700e-003	1.4700e-003	0.0000	2.2517	2.2517	7.3000e-004	0.0000	2.2699
Total	3.1400e-003	0.0329	0.0121	3.0000e-005	7.0500e-003	1.6000e-003	8.6500e-003	3.8700e-003	1.4700e-003	5.3400e-003	0.0000	2.2517	2.2517	7.3000e-004	0.0000	2.2699

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	3.4000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0890	0.0890	0.0000	0.0000	0.0891
Total	4.0000e-005	3.0000e-005	3.4000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0890	0.0890	0.0000	0.0000	0.0891

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	tons/yr										MT/yr					
Fugitive Dust					0.1596	0.0000	0.1596	0.0585	0.0000	0.0585	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0774	0.8655	0.5271	1.1100e-003		0.0364	0.0364		0.0335	0.0335	0.0000	97.6586	97.6586	0.0316	0.0000	98.4482
Total	0.0774	0.8655	0.5271	1.1100e-003	0.1596	0.0364	0.1961	0.0585	0.0335	0.0920	0.0000	97.6586	97.6586	0.0316	0.0000	98.4482

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	5.1300e-003	0.1687	0.0393	4.7000e-004	0.0105	5.1000e-004	0.0110	2.8800e-003	4.8000e-004	3.3600e-003	0.0000	46.4620	46.4620	3.2200e-003	0.0000	46.5426
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-003	7.8000e-004	8.7900e-003	3.0000e-005	2.5500e-003	2.0000e-005	2.5700e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.2992	2.2992	7.0000e-005	0.0000	2.3009
Total	6.1300e-003	0.1695	0.0481	5.0000e-004	0.0130	5.3000e-004	0.0136	3.5600e-003	5.0000e-004	4.0600e-003	0.0000	48.7612	48.7612	3.2900e-003	0.0000	48.8435

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					0.0623	0.0000	0.0623	0.0228	0.0000	0.0228	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0774	0.8655	0.5271	1.1100e-003		0.0364	0.0364		0.0335	0.0335	0.0000	97.6585	97.6585	0.0316	0.0000	98.4481

Total	0.0774	0.8655	0.5271	1.1100e-003	0.0623	0.0364	0.0987	0.0228	0.0335	0.0563	0.0000	97.6585	97.6585	0.0316	0.0000	98.4481
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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	5.1300e-003	0.1687	0.0393	4.7000e-004	0.0105	5.1000e-004	0.0110	2.8800e-003	4.8000e-004	3.3600e-003	0.0000	46.4620	46.4620	3.2200e-003	0.0000	46.5426
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-003	7.8000e-004	8.7900e-003	3.0000e-005	2.5500e-003	2.0000e-005	2.5700e-003	6.8000e-004	2.0000e-005	7.0000e-004	0.0000	2.2992	2.2992	7.0000e-005	0.0000	2.3009
Total	6.1300e-003	0.1695	0.0481	5.0000e-004	0.0130	5.3000e-004	0.0136	3.5600e-003	5.0000e-004	4.0600e-003	0.0000	48.7612	48.7612	3.2900e-003	0.0000	48.8435

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0822	0.8030	1.0792	1.6000e-003		0.0435	0.0435		0.0400	0.0400	0.0000	140.4833	140.4833	0.0454	0.0000	141.6192
Total	0.0822	0.8030	1.0792	1.6000e-003		0.0435	0.0435		0.0400	0.0400	0.0000	140.4833	140.4833	0.0454	0.0000	141.6192

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	6.7200e-003	0.2134	0.0579	5.5000e-004	0.0136	4.4000e-004	0.0141	3.9300e-003	4.2000e-004	4.3500e-003	0.0000	53.3049	53.3049	3.2700e-003	0.0000	53.3866
Worker	0.0417	0.0325	0.3664	1.0600e-003	0.1062	8.8000e-004	0.1070	0.0282	8.1000e-004	0.0290	0.0000	95.8063	95.8063	2.8200e-003	0.0000	95.8768
Total	0.0484	0.2459	0.4242	1.6100e-003	0.1198	1.3200e-003	0.1211	0.0321	1.2300e-003	0.0334	0.0000	149.1112	149.1112	6.0900e-003	0.0000	149.2634

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	0.0822	0.8030	1.0792	1.6000e-003		0.0435	0.0435		0.0400	0.0400	0.0000	140.4831	140.4831	0.0454	0.0000	141.6190
Total	0.0822	0.8030	1.0792	1.6000e-003		0.0435	0.0435		0.0400	0.0400	0.0000	140.4831	140.4831	0.0454	0.0000	141.6190

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	6.7200e-003	0.2134	0.0579	5.5000e-004	0.0136	4.4000e-004	0.0141	3.9300e-003	4.2000e-004	4.3500e-003	0.0000	53.3049	53.3049	3.2700e-003	0.0000	53.3866
Worker	0.0417	0.0325	0.3664	1.0600e-003	0.1062	8.8000e-004	0.1070	0.0282	8.1000e-004	0.0290	0.0000	95.8063	95.8063	2.8200e-003	0.0000	95.8768
Total	0.0484	0.2459	0.4242	1.6100e-003	0.1198	1.3200e-003	0.1211	0.0321	1.2300e-003	0.0334	0.0000	149.1112	149.1112	6.0900e-003	0.0000	149.2634

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0118					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0189	0.1321	0.1572	2.6000e-004		8.1400e-003	8.1400e-003		8.1400e-003	8.1400e-003	0.0000	22.0856	22.0856	1.5200e-003	0.0000	22.1235
Total	1.0308	0.1321	0.1572	2.6000e-004		8.1400e-003	8.1400e-003		8.1400e-003	8.1400e-003	0.0000	22.0856	22.0856	1.5200e-003	0.0000	22.1235

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	8.1900e-003	6.3700e-003	0.0720	2.1000e-004	0.0209	1.7000e-004	0.0210	5.5400e-003	1.6000e-004	5.7000e-003	0.0000	18.8191	18.8191	5.5000e-004	0.0000	18.8329

Total	8.1900e-003	6.3700e-003	0.0720	2.1000e-004	0.0209	1.7000e-004	0.0210	5.5400e-003	1.6000e-004	5.7000e-003	0.0000	18.8191	18.8191	5.5000e-004	0.0000	18.8329
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Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.0118					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0189	0.1321	0.1572	2.6000e-004		8.1400e-003	8.1400e-003		8.1400e-003	8.1400e-003	0.0000	22.0856	22.0856	1.5200e-003	0.0000	22.1235
Total	1.0308	0.1321	0.1572	2.6000e-004		8.1400e-003	8.1400e-003		8.1400e-003	8.1400e-003	0.0000	22.0856	22.0856	1.5200e-003	0.0000	22.1235

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	8.1900e-003	6.3700e-003	0.0720	2.1000e-004	0.0209	1.7000e-004	0.0210	5.5400e-003	1.6000e-004	5.7000e-003	0.0000	18.8191	18.8191	5.5000e-004	0.0000	18.8329
Total	8.1900e-003	6.3700e-003	0.0720	2.1000e-004	0.0209	1.7000e-004	0.0210	5.5400e-003	1.6000e-004	5.7000e-003	0.0000	18.8191	18.8191	5.5000e-004	0.0000	18.8329

3.7 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.3900e-003	0.0739	0.0828	1.2000e-004		4.2800e-003	4.2800e-003		3.9400e-003	3.9400e-003	0.0000	10.6227	10.6227	3.4400e-003	0.0000	10.7086
Paving	1.1700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	8.5600e-003	0.0739	0.0828	1.2000e-004		4.2800e-003	4.2800e-003		3.9400e-003	3.9400e-003	0.0000	10.6227	10.6227	3.4400e-003	0.0000	10.7086

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	3.0000e-004	3.4000e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8900	0.8900	3.0000e-005	0.0000	0.8907
Total	3.9000e-004	3.0000e-004	3.4000e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8900	0.8900	3.0000e-005	0.0000	0.8907

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	7.3900e-003	0.0739	0.0828	1.2000e-004		4.2800e-003	4.2800e-003		3.9400e-003	3.9400e-003	0.0000	10.6227	10.6227	3.4400e-003	0.0000	10.7086
Paving	1.1700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	8.5600e-003	0.0739	0.0828	1.2000e-004		4.2800e-003	4.2800e-003		3.9400e-003	3.9400e-003	0.0000	10.6227	10.6227	3.4400e-003	0.0000	10.7086

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.9000e-004	3.0000e-004	3.4000e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8900	0.8900	3.0000e-005	0.0000	0.8907
Total	3.9000e-004	3.0000e-004	3.4000e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8900	0.8900	3.0000e-005	0.0000	0.8907

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Mitigated	0.3392	1.4625	4.6405	0.0163	1.4330	0.0139	1.4469	0.3845	0.0129	0.3974	0.0000	1,495.1889	1,495.1889	0.0721	0.0000	1,496.9912
Unmitigated	0.3392	1.4625	4.6405	0.0163	1.4330	0.0139	1.4469	0.3845	0.0129	0.3974	0.0000	1,495.1889	1,495.1889	0.0721	0.0000	1,496.9912

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Condo/Townhouse	499.56	487.60	416.76	1,660,814	1,660,814
Parking Lot	0.00	0.00	0.00		
Single Family Housing	623.04	648.78	564.30	2,112,913	2,112,913
Total	1,122.60	1,136.38	981.06	3,773,727	3,773,727

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Condo/Townhouse	0.642469	0.051443	0.116311	0.104680	0.020358	0.006743	0.028444	0.018243	0.001904	0.001899	0.005618	0.000678	0.001211
Parking Lot	0.546501	0.044961	0.204016	0.120355	0.015740	0.006196	0.020131	0.030678	0.002515	0.002201	0.005142	0.000687	0.000876
Single Family Housing	0.642469	0.051443	0.116311	0.104680	0.020358	0.006743	0.028444	0.018243	0.001904	0.001899	0.005618	0.000678	0.001211

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	324.7650	324.7650	0.0134	2.7700e-003	325.9268
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	324.7650	324.7650	0.0134	2.7700e-003	325.9268
NaturalGas Mitigated	0.0183	0.1564	0.0665	1.0000e-003		0.0126	0.0126		0.0126	0.0126	0.0000	181.0936	181.0936	3.4700e-003	3.3200e-003	182.1698
NaturalGas Unmitigated	0.0183	0.1564	0.0665	1.0000e-003		0.0126	0.0126		0.0126	0.0126	0.0000	181.0936	181.0936	3.4700e-003	3.3200e-003	182.1698

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					
City Park	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
Condo/Townhouse	1.58024e+006	8.5200e-003	0.0728	0.0310	4.6000e-004		5.8900e-003	5.8900e-003		5.8900e-003	5.8900e-003	0.0000	84.3278	84.3278	1.6200e-003	1.5500e-003	84.8289
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
Single Family Housing	1.81332e+006	9.7800e-003	0.0836	0.0356	5.3000e-004		6.7600e-003	6.7600e-003		6.7600e-003	6.7600e-003	0.0000	96.7658	96.7658	1.8500e-003	1.7700e-003	97.3409
Total		0.0183	0.1564	0.0666	9.9000e-004		0.0127	0.0127		0.0127	0.0127	0.0000	181.0936	181.0936	3.4700e-003	3.3200e-003	182.1698

Mitigated

	Natural Gas 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					
City Park	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
Condo/Townhouse	1.58024e+006	8.5200e-003	0.0728	0.0310	4.6000e-004		5.8900e-003	5.8900e-003		5.8900e-003	5.8900e-003	0.0000	84.3278	84.3278	1.6200e-003	1.5500e-003	84.8289
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
Single Family Housing	1.81332e+006	9.7800e-003	0.0836	0.0356	5.3000e-004		6.7600e-003	6.7600e-003		6.7600e-003	6.7600e-003	0.0000	96.7658	96.7658	1.8500e-003	1.7700e-003	97.3409
Total		0.0183	0.1564	0.0666	9.9000e-004		0.0127	0.0127		0.0127	0.0127	0.0000	181.0936	181.0936	3.4700e-003	3.3200e-003	182.1698

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	463674	147.7366	6.1000e-003	1.2600e-003	148.2652
Parking Lot	13860	4.4161	1.8000e-004	4.0000e-005	4.4319
Single Family Housing	541747	172.6123	7.1300e-003	1.4700e-003	173.2298
Total		324.7650	0.0134	2.7700e-003	325.9268

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	463674	147.7366	6.1000e-003	1.2600e-003	148.2652
Parking Lot	13860	4.4161	1.8000e-004	4.0000e-005	4.4319
Single Family Housing	541747	172.6123	7.1300e-003	1.4700e-003	173.2298
Total		324.7650	0.0134	2.7700e-003	325.9268

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.3188	0.0467	1.6443	2.6000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	34.9145	34.9145	3.1900e-003	5.9000e-004	35.1705
Unmitigated	1.3188	0.0467	1.6443	2.6000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	34.9145	34.9145	3.1900e-003	5.9000e-004	35.1705

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	0.1012					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.1650					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.2600e-003	0.0279	0.0119	1.8000e-004		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003	0.0000	32.2504	32.2504	6.2000e-004	5.9000e-004	32.4421
Landscaping	0.0494	0.0188	1.6324	9.0000e-005		9.0200e-003	9.0200e-003		9.0200e-003	9.0200e-003	0.0000	2.6641	2.6641	2.5700e-003	0.0000	2.7284
Total	1.3188	0.0467	1.6443	2.7000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	34.9145	34.9145	3.1900e-003	5.9000e-004	35.1705

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	0.1012					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.1650					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.2600e-003	0.0279	0.0119	1.8000e-004		2.2500e-003	2.2500e-003		2.2500e-003	2.2500e-003	0.0000	32.2504	32.2504	6.2000e-004	5.9000e-004	32.4421
Landscaping	0.0494	0.0188	1.6324	9.0000e-005		9.0200e-003	9.0200e-003		9.0200e-003	9.0200e-003	0.0000	2.6641	2.6641	2.5700e-003	0.0000	2.7284
Total	1.3188	0.0467	1.6443	2.7000e-004		0.0113	0.0113		0.0113	0.0113	0.0000	34.9145	34.9145	3.1900e-003	5.9000e-004	35.1705

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	70.0871	0.3382	8.4900e-003	81.0724
Unmitigated	70.0871	0.3382	8.4900e-003	81.0724

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.3217	1.1388	5.0000e-005	1.0000e-005	1.1429
Condo/Townhouse	5.99417 / 3.77893	40.1471	0.1969	4.9400e-003	46.5413
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	4.30017 / 2.71097	28.8012	0.1413	3.5400e-003	33.3883
Total		70.0870	0.3382	8.4900e-003	81.0724

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.3217	1.1388	5.0000e-005	1.0000e-005	1.1429
Condo/Townhouse	5.99417 / 3.77893	40.1471	0.1969	4.9400e-003	46.5413
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	4.30017 / 2.71097	28.8012	0.1413	3.5400e-003	33.3883
Total		70.0870	0.3382	8.4900e-003	81.0724

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	12.1622	0.7188	0.0000	30.1313
Unmitigated	24.3244	1.4375	0.0000	60.2627

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.02	4.0600e-003	2.4000e-004	0.0000	0.0101
Condo/Townhouse	42.32	8.5906	0.5077	0.0000	21.2828
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	77.49	15.7298	0.9296	0.0000	38.9698
Total		24.3244	1.4375	0.0000	60.2627

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.01	2.0300e-003	1.2000e-004	0.0000	5.0300e-003
Condo/Townhouse	21.16	4.2953	0.2538	0.0000	10.6414
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	38.745	7.8649	0.4648	0.0000	19.4849
Total		12.1622	0.7188	0.0000	30.1314

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
