

## **Appendix C      Air Quality/GHG Data**

## Appendices

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**CalEEMod Inputs (Construction Run)**

**Name:** The Residences at Nohl Ranch  
**Project Number:** COA-72.0  
**Project Location:** 6501 through 6513 Serrano Avenue  
**County/Air Basin:** Orange  
**Climate Zone:** 8  
**Land Use Setting:** Urban  
**Operational Year:** 2022  
**Utility Company:** Southern California Edison  
**Air Basin:** South Coast Air Basin  
**Air District:** SCAQMD  
**SRA:** 17

<b>Project Site Acreage</b>	3.75
<b>Disturbed Site Acreage</b>	3.15

Land Use	SQFT	Building Footprint	Acres
Single Family Attached	118,351	48,331	1.11
Surface Parking	56,611		1.30
Landscaping	32,234		0.74
	<b>207,196</b>	<b>48,331</b>	<b>3.15</b>

<sup>1</sup> Site parcel size is 3.03, additional site acreage is due to roadway improvements in the adjacent right-away.

**CalEEMod Land Use Inputs -- Construction**

Land Use	Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Square Feet
Single Family Attached	Residential	Condo/Townhouse	58.0	Dwelling Unit	1.11	118,351
Surface parking + Hardscape	Parking	Parking Lot	56.61	1000sqft	1.30	56,611
Landscape	Parking	Other Non-Asphalt Surfaces	32.23	1000sqft	0.74	0
					<b>3.15</b>	

**Demolition Data\***

Component	Amount to be Demolished (Tons)*	Haul Truck Capacity (tons)	Haul Distance			
			(miles)	Total Trip Ends	Duration (days)	Trip Ends/ day
Asphalt Demo*	1,154	16	20	145	6	25
Building Demo*	1,956	16	20	245	39	2
<b>Total</b>	<b>3,110</b>			<b>390</b>		

\*Based on square footage provided by the applicant.

**Architectural Coating**

**SCAQMD Rule 1113**

Interior Paint VOC content:	50
Exterior Paint VOC content:	50

**Non-Residential Architectural Coating**

Percentage of Buildings' Interior Painted:	100%
Percentage of Buildings' Exterior Painted:	100%

Structure Type	Land Use Square Feet	CalEEMod Application Factor	Total Paintable		
			Surface Area <sup>1</sup>	Interior Area <sup>2</sup>	Paintable Exterior Area <sup>2</sup>
<b>Residential</b>					
Single Family Attached	118,351	2.7	319,548	239,661	79,887
<b>Non-Residential</b>					
Parking Striping	56,611	0.06	3,397	0	3,397

<sup>1</sup> CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively.

<sup>2</sup> The program assumes the total surface for painting equals 2.7 times the floor square footage for residential and 2 times that for nonresidential square footage defined by the user. Architectural coatings for the parking lot is based on CalEEMod methodology applied to a surface parking lot (i.e., striping), in which 6% of surface area is painted.

**Construction - Unmitigated Run**

**SCAQMD Rule 403**

Replace Ground Cover	PM10:	5	% Reduction
	PM25:	5	% Reduction

Water Exposed Area	Frequency:	2	per day
	PM10:	55	% Reduction
	PM25:	55	% Reduction

SCAQMD Rule 1186	Unpaved Roads	Vehicle Speed:	15	mph
	Clean Paved Road		9	% PM Reduction

**CalEEMod Construction Phase Inputs\***

5-Day Work Week/8 hours per day

**CalEEMod Default**

Phase Name	Phase Type	Start Date	End Date	CalEEMod Total Days	Portion of Construction Schedule	Portion of Construction Schedule for 24 month phase	Check
Demolition	Demolition	1/6/2020	1/31/2020	20	7%	39	7%
Site Preparation	Site Preparation	2/1/2020	2/5/2020	3	1%	6	1%
Grading	Grading	2/6/2020	2/13/2020	6	2%	12	2%
Building Construction	Building Construction	2/14/2020	2/17/2020	220	82%	427	82%
Paving	Paving	12/18/2020	12/31/2020	10	4%	19	4%
Architectural Coating	Architectural Coating	1/1/2021	1/21/2021	10	4%	19	4%
				269	100%	522	100%

**Adjusted Phasing for 24 month phasing**

Phase Name	Phase Type	Start Date	End Date	CalEEMod Total Days	Check
Demolition	Demolition	1/6/2020	2/27/2020	39	7%
Site Preparation	Site Preparation	2/28/2020	3/6/2020	6	1%
Grading	Grading	3/9/2020	3/24/2020	12	2%
Building Construction	Building Construction	3/25/2020	11/11/2021	427	82%
Paving	Paving	11/12/2021	12/8/2021	19	4%
Architectural Coating	Architectural Coating	12/9/2021	1/4/2022	19	4%
				522	100%

\*Based on overall construction schedule of 24 months provided by the Applicant, CalEEMod default phase lengths were normalized to meet 24 month period

### CalEEMod Construction Off-Road Equipment Inputs\*

\*CalEEMod defaults assumed.

Applicant Equipment Type	# of Equipment	HP	Tier Rating	Hrs/Day	Trips
<b>Demolition</b>					
Concrete/Industrial Saws	1	81		8	
Rubber Tired Dozers	2	158		8	
Excavators	3	247		8	
Worker Trips					15
Vendors Trips					0
Hauling Trips					390
<b>Site Preparation</b>					
Rubber Tired Dozers	3	247		8	
Tractors/Loaders/Backhoes	4	97		8	
Worker Trips					18
Vendors Trips <sup>2</sup>					2
Hauling Trips					0
<b>Grading</b>					
Excavators	1	158		8	
Graders	1	187		8	
Rubber Tired Dozers	1	247		8	
Tractors/Loaders/Backhoes	3	97		8	
Worker Trips					15
Vendors Trips					0
Hauling Trips					0
<b>Building Construction</b>					
Cranes	1	231		7	
Forklifts	3	89		8	
Generator Sets	1	84		8	
Tractors/Loaders/Backhoes	3	97		7	
Welders	1	46		8	
Worker Trips					66
Vendor Trips <sup>1</sup>					17
Hauling Trips					0
<b>Paving</b>					
Cement and Mortar Mixers	2	9		6	
Pavers	1	130		8	
Paving Equipment	2	132		6	
Rollers	2	80		6	
Tractors/Loaders/Backhoes	1	97		8	
Worker Trips					20
Vendor Trips <sup>1</sup>					2
Hauling Trips					0
<b>Architectural Coating</b>					
Air Compressors	1	78		6	
Worker Trips					13
Vendor Trips					0
Hauling Trips					0

<sup>1</sup> Assume 2 vendor trips for concrete trucks.

<sup>2</sup> Assume 2 vendor trips for water trucks.

## Pavement Volume to Weight Conversion

<b>Component</b>	<b>Total SF of Area<sup>1</sup></b>	<b>Assumed Thickness (foot)<sup>2</sup></b>	<b>Debris Volume (cu. ft)</b>	<b>Weight of Crushed Asphalt (lbs/cf)<sup>3</sup></b>	<b>AC Mass (lbs)</b>	<b>AC Mass (tons)</b>
Asphalt	77,881	0.333	25,960	89	2,307,585	1153.79

<sup>1</sup> Based on aerial image of existing project site.

<sup>2</sup> Pavements and Surface Materials. Nonpoint Education for Municipal Officials, Technical Paper Number 8. University of Connecticut Cooperative Extension System, 1999.

<sup>3</sup> <https://www.calrecycle.ca.gov/swfacilities/cdi/Tools/Calculations>

## Demo Haul Trip Calculation

### Conversion factors\*

0.046 ton/SF  
1.2641662 tons/cy  
20 tons  
15.820705 CY  
0.7910352 CY/ton

### Building Demolition Haul Trips (BSF and Haul Truck (CY) given)

<b>BSF Demo</b>	<b>Tons/SF</b>	<b>Tons</b>	<b>Haul Truck (Ton)</b>	<b>Round Trips</b>	<b>Total Trip Ends</b>
42,526	0.046	1956	16	122	245

\*CalEEMod User's Guide Version 2016.3.2, Appendix A



**CalEEMod Inputs (Operation Run)**

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**Air Basin:** South Coast Air Basin  
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<b>Project Site Acreage<sup>1</sup></b>	3.75
<b>Disturbed Site Acreage<sup>1</sup></b>	3.15

Land Use	SQFT	Building Footprint	Acres
Single Family Attached	118,351	48,331	1.11
Surface Parking	56,611		1.30
Landscaping	32,234		0.74
	<b>207,196</b>	<b>48,331</b>	<b>3.15</b>

<sup>1</sup> Site parcel size is 3.03, additional site acreage of 0.72 is due to roadway improvements in the adjacent right-away.

**CalEEMod Land Use Inputs -- Construction**

Land Use	Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Square Feet
Single Family Attached	Residential	Condo/Townhouse	58	Dwelling Unit	1.11	118,351
Surface parking + Hardscape	Parking	Parking Lot	56.61	1000sqft	1.30	56611
Landscape	Parking	Other Non-Asphalt Surfaces	32.23	1000sqft	0.74	0
					<b>3.15</b>	

**Trip Generation**

Residential	Weekday	Average Daily Trips (ADT)
Trip Generation <sup>1</sup>	439	

Land Use	Calculated Weekday		Saturday Trip	
	Trip Rate	ITE Weekday Trip Rate**	Rate <sup>2</sup>	Sunday Trip Rate <sup>2</sup>
Multifamily Housing	7.57	7.32	8.14	6.28

<sup>1</sup> 2018. LSA, Traffic Impact Analysis Nohl Ranch Condominiums.

<sup>2</sup> ITE Trip Generation Manual 10th Edition. Multifamily Housing (Low-Rise), land use code 220.

	Weekday	Saturday	Sunday
Daily Trips:	439	472	364
Primary Trips	71%		
Diverted Trips	29%		
Pass-by Trips	0%		

**Water Use**

	Wastewater Generation			Residential Total Water Use (% of Wastewater) <sup>2</sup>	
	Dwelling Units	(gals/DU/day) <sup>1</sup>	Total (gal/day)		Total (gallons/yr)
Single Family Attached	58	240	13,920	125%	6,351,000
Septic Tank	0%				
Aerobic	100%				
Facultative Lagoons	0%				

<sup>1</sup> PSOMAS, 2017, Sewer Study.  
<sup>2</sup> Based on other EIR/IS studies.

**Solid Waste**

	Solid Waste Generation	
	Dwelling Units	Total (tons/year)
Condo/Townhouse	58	26.68

<sup>1</sup> CalEEMod, 2017, Solid Waste Disposal Rates, Appendix D.

**Water Mitigation**

Install Low Flow Bathroom Faucet	32	% Reduction in flow
Install Low Flow Kitchen Faucet	18	% Reduction in flow
Install Low Flow Toilet	20	% Reduction in flow
Install Low Flow Shower	20	% Reduction in flow
Use Water Efficiency Irrigation System	6.1	% Reduction in flow

**Energy Mitigation**

**2019 Building Energy Efficiency Standards**

Residential Exceed Title 24	53%	Improvement over 2016 <sup>1</sup>
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<sup>1</sup> California Energy Commission, 2018, 2019 Building Energy Efficiency Standards, Adoption. [https://www.energy.ca.gov/title24/2019standards/documents/2018\\_Title\\_24\\_2019\\_Building\\_Standards\\_FAQ.pdf](https://www.energy.ca.gov/title24/2019standards/documents/2018_Title_24_2019_Building_Standards_FAQ.pdf)

## Changes to the CalEEMod Defaults - Fleet Mix 2022

Trips 439

Default	LDA	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH		
FleetMix (Model Default)	0.56138	0.04328	0.20947	0.11183	0.01555	0.0058	0.02583	0.01713	0.00175	0.00154	0.00493	0.00059	0.00093	100%
Trips	246	19	92	49	7	3	11	8	1	1	2	0	0	439
Percent	82%			11%	7%									100%
without buses/MH	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0	0	0.004926	0	0	100%
Percent	82%			11%	6%									100%
Adjusted without buses/MH	0.561378	0.043284	0.209473	0.111826	0.016710	0.006229	0.027764	0.018408	0.000000	0.000000	0.005295	0.000000	0.000000	100%
Percent check	82%			11%	7%									100%
Assumed Mix	97.0%			2.00%	1.00%									100%
<b>adjusted with Assumed</b>	<b>0.664531</b>	<b>0.051237</b>	<b>0.247964</b>	<b>0.020000</b>	<b>0.002418</b>	<b>0.000901</b>	<b>0.004017</b>	<b>0.002664</b>	<b>0.000000</b>	<b>0.000000</b>	<b>0.006268</b>	<b>0.000000</b>	<b>0.000000</b>	<b>100%</b>
Trips	292	22	109	9	1	0	2	1	0	0	3	0	0	439
Percent check	97%			2%	1%									
Check	426			9	4									

Fleet mix for the project is modified to reflect a higher proportion of passenger vehicles than the regional VMT.

**CalEEMod Inputs (Operation Run)**

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**Climate Zone:** 8  
**Land Use Setting:** Urban  
**Operational Year:** 2019, 2022  
**Utility Company:** Southern California Edison  
**Air Basin:** South Coast Air Basin  
**Air District:** SCAQMD  
**SRA:** 17

	Acreage	SQFT
<b>Project Site</b>	3.03	131,986.80

Land Use	SQFT	Acres
Retail	42,526	0.98
Parking Lot	54,973	1.26
Hardscape	22,908	0.53
Landscape	11,580	0.27
	<b>131,987</b>	<b>3.03</b>

**CalEEMod Land Use Inputs -- Operation**

Land Use	Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Square Feet
Retail	Retail	Strip Mall	42.526	1000sqft	0.98	42,526
Parking Lot	Parking	Parking Lot	54.973	1000sqft	1.26	54,973
Hardscape + Landscape	Parking	Other Non-Asphalt Surfaces	34.488	1000sqft	0.79	34,488
					<b>3.03</b>	

**Trip Generation**

	Weekday	Saturday	Sunday
Trip Generation <sup>1</sup>	1,003	1,115	1,115

Land Use	Calculated Trip Rate	Saturday Trip Rate <sup>2</sup>	Sunday Trip Rate <sup>2</sup>
Retail	23.59	26.22	26.22

<sup>1</sup> 2018. LSA, *Traffic Impact Analysis Nohl Ranch Condominiums*. Excludes trips from parents that current drop off Anaheim Hills Elementary School students at the Serrano Center since the project site does not generate these trips. Serrano Center trips are based on a field survey conducted on a weekday.

<sup>2</sup> Weekend trip were determined by the ratio between weekday surveyed rates and ITE trip weekend rates.

Primary Trips	87%	%
Diverted Trips	13%	%
Pass-by Trips	0	%

**Water Use**

	Acres	Wastewater Generation (gals/acres/day) <sup>1</sup>	Interior Total (gal/day) <sup>1</sup>	Interior Total (gal/yr)	Retail Total Water Use (% of Wastewater) <sup>2</sup>	Total (gallons/yr)	Outdoor Total (gal/yr)
Retail	3.06	3,500	10,710	3,909,150	125%	4,886,438	977,288
Septic Tank	0%						
Aerobic	100%						
Facultative Lagoons	0%						

<sup>1</sup> 2017. PSOMAS, Sewer Study.

<sup>2</sup> Based on other EIR/IS studies.

**Solid Waste**

	1000 SQFT	Solid Waste Generation (tons/1000 sqft/year) <sup>1</sup>	Total (tons/year)
Strip Mall	42.53	1.05	44.65

<sup>1</sup> 2017. CalEEMod, Solid Waste Disposal Rates, Appendix D.

**Architectural Coating**

**SCAQMD Rule 1113**

Interior Paint VOC content:	50
Exterior Paint VOC content:	50

**Non-Residential Architectural Coating**

Percentage of Buildings' Interior Painted:	100%
Percentage of Buildings' Exterior Painted:	100%

Structure Type	Land Use Square Feet	CalEEMod Application Factor	Total Paintable Surface Area <sup>1</sup>	Paintable Interior Area <sup>2</sup>	Paintable Exterior Area <sup>2</sup>
Strip Mall	42,526	2.0	85,052	63,789	21,263
Parking Lot	54,973	0.06	3,298	0	3,298

<sup>1</sup> CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively.

<sup>2</sup> The program assumes the total surface for painting equals 2.7 times the floor square footage for residential and 2 times that for nonresidential square footage defined by the user. Architectural coatings for the parking lot is based on CalEEMod methodology applied to a surface parking lot (i.e., striping), in which 6% of surface area is painted.

**Water Mitigation**

Install Low Flow Bathroom Faucet	32	% Reduction in flow
Install Low Flow Kitchen Faucet	18	% Reduction in flow
Install Low Flow Toilet	20	% Reduction in flow
Install Low Flow Shower	20	% Reduction in flow
Use Water Efficiency Irrigation System	6.1	% Reduction in flow

## Changes to the CalEEMod Defaults - Fleet Mix 2019

Trips 1,003

Default	LDA	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH		
FleetMix (Model Default)	0.55237	0.04423	0.21112	0.11911	0.0175	0.0058	0.02446	0.01569	0.00164	0.00163	0.00483	0.00058	0.00104	100%
Trips	554	44	212	119	18	6	25	16	2	2	5	1	1	1003
Percent	81%			12%	7%									100%
without buses/MH	0.552373	0.044229	0.211123	0.119112	0.017503	0.005797	0.024455	0.015685	0	0	0.004830	0	0	100%
Percent	81%			12%	6%									100%
Adjusted without buses/MH	0.552373	0.044229	0.211123	0.119112	0.018853	0.006244	0.026342	0.016895	0.000000	0.000000	0.005203	0.000000	0.000000	100%
Percent check	81%			12%	7%									100%
Assumed Mix	97.0%			2.00%	1.00%									100%
<b>adjusted with Assumed</b>	<b>0.659102</b>	<b>0.052775</b>	<b>0.251916</b>	<b>0.020000</b>	<b>0.002759</b>	<b>0.000914</b>	<b>0.003855</b>	<b>0.002472</b>	<b>0.000000</b>	<b>0.000000</b>	<b>0.006208</b>	<b>0.000000</b>	<b>0.000000</b>	<b>100%</b>
Trips	661	53	253	20	3	1	4	2	0	0	6	0	0	1003
Percent check	97%			2%	1%									
Check	973			20	10									

Fleet mix for the project is modified to reflect a higher proportion of passenger vehicles than the regional VMT.

Residences at Nohl Ranch Operation and Construction 2022 - Orange County, Annual

**Residences at Nohl Ranch Operation and Construction 2022  
Orange County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	32.23	1000sqft	0.74	0.00	0
Parking Lot	56.61	1000sqft	1.30	56,610.00	0
Condo/Townhouse	58.00	Dwelling Unit	1.11	118,351.00	166

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Refer to CalEEMod inputs.

Construction Phase - Based on a two year construction schedule.

Trips and VMT - Added concrete and water trucks.

Demolition -

Grading -

Vehicle Trips - Refer to CalEEMod inputs.

Woodstoves - No woodstoves or fireplaces.

Water And Wastewater - Refer to CalEEMod inputs.

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 and 1186

Energy Mitigation -

Water Mitigation -

Fleet Mix - Refer to CalEEMod inputs Fleet Mix.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	39.00
tblConstructionPhase	NumDays	5.00	6.00
tblConstructionPhase	NumDays	8.00	12.00
tblConstructionPhase	NumDays	230.00	427.00
tblConstructionPhase	NumDays	18.00	19.00
tblConstructionPhase	NumDays	18.00	19.00
tblConstructionPhase	PhaseEndDate	1/31/2020	2/27/2020
tblConstructionPhase	PhaseEndDate	2/7/2020	3/6/2020
tblConstructionPhase	PhaseEndDate	2/19/2020	3/24/2020
tblConstructionPhase	PhaseEndDate	1/6/2021	11/11/2021
tblConstructionPhase	PhaseEndDate	2/1/2021	12/8/2021
tblConstructionPhase	PhaseEndDate	2/25/2021	1/4/2022
tblConstructionPhase	PhaseStartDate	2/1/2020	2/28/2020
tblConstructionPhase	PhaseStartDate	2/8/2020	3/9/2020
tblConstructionPhase	PhaseStartDate	2/20/2020	3/25/2020
tblConstructionPhase	PhaseStartDate	1/7/2021	11/12/2021
tblConstructionPhase	PhaseStartDate	2/2/2021	12/9/2021
tblFireplaces	NumberGas	49.30	0.00
tblFireplaces	NumberNoFireplace	5.80	0.00
tblFireplaces	NumberWood	2.90	0.00
tblFleetMix	HHD	0.02	2.6640e-003



tblFleetMix	LDA	0.56	0.66
tblFleetMix	LDT1	0.04	0.05
tblFleetMix	LDT2	0.21	0.25
tblFleetMix	LHD1	0.02	2.4180e-003
tblFleetMix	LHD2	5.7950e-003	9.0100e-004
tblFleetMix	MCY	4.9260e-003	6.2680e-003
tblFleetMix	MDV	0.11	0.02
tblFleetMix	MH	9.3400e-004	0.00
tblFleetMix	MHD	0.03	4.0170e-003
tblFleetMix	OBUS	1.7470e-003	0.00
tblFleetMix	SBUS	5.9400e-004	0.00
tblFleetMix	UBUS	1.5420e-003	0.00
tblLandUse	LandUseSquareFeet	32,230.00	0.00
tblLandUse	LandUseSquareFeet	58,000.00	118,351.00
tblLandUse	LotAcreage	3.63	1.11
tblTripsAndVMT	HaulingTripNumber	308.00	390.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	15.00	17.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleTrips	DV_TP	11.00	29.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	71.00
tblVehicleTrips	ST_TR	5.67	8.14
tblVehicleTrips	SU_TR	4.84	6.28
tblVehicleTrips	WD_TR	5.81	7.57
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	3,778,933.49	6,351,000.00
tblWater	OutdoorWaterUseRate	2,382,371.11	0.00
tblWater	SepticTankPercent	10.33	0.00

tblWoodstoves	NumberCatalytic	2.90	0.00
tblWoodstoves	NumberNoncatalytic	2.90	0.00

## 2.0 Emissions Summary

### 2.1 Overall Construction

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.3403	3.1282	2.5705	5.0900e-003	0.2190	0.1610	0.3800	0.0798	0.1508	0.2306	0.0000	450.3102	450.3102	0.0907	0.0000	452.5779
2021	0.5997	2.2801	2.2702	4.4900e-003	0.0970	0.1151	0.2121	0.0260	0.1082	0.1342	0.0000	395.7844	395.7844	0.0732	0.0000	397.6142
2022	0.0401	1.4400e-003	2.1600e-003	0.0000	1.4000e-004	8.0000e-005	2.3000e-004	4.0000e-005	8.0000e-005	1.2000e-004	0.0000	0.3702	0.3702	2.0000e-005	0.0000	0.3706
<b>Maximum</b>	<b>0.5997</b>	<b>3.1282</b>	<b>2.5705</b>	<b>5.0900e-003</b>	<b>0.2190</b>	<b>0.1610</b>	<b>0.3800</b>	<b>0.0798</b>	<b>0.1508</b>	<b>0.2306</b>	<b>0.0000</b>	<b>450.3102</b>	<b>450.3102</b>	<b>0.0907</b>	<b>0.0000</b>	<b>452.5779</b>

#### Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.3403	3.1282	2.5705	5.0900e-003	0.1394	0.1610	0.3004	0.0466	0.1508	0.1974	0.0000	450.3098	450.3098	0.0907	0.0000	452.5775
2021	0.5997	2.2801	2.2702	4.4900e-003	0.0896	0.1151	0.2047	0.0242	0.1082	0.1324	0.0000	395.7840	395.7840	0.0732	0.0000	397.6139
2022	0.0401	1.4400e-003	2.1600e-003	0.0000	1.3000e-004	8.0000e-005	2.1000e-004	4.0000e-005	8.0000e-005	1.2000e-004	0.0000	0.3702	0.3702	2.0000e-005	0.0000	0.3706
<b>Maximum</b>	<b>0.5997</b>	<b>3.1282</b>	<b>2.5705</b>	<b>5.0900e-003</b>	<b>0.1394</b>	<b>0.1610</b>	<b>0.3004</b>	<b>0.0466</b>	<b>0.1508</b>	<b>0.1974</b>	<b>0.0000</b>	<b>450.3098</b>	<b>450.3098</b>	<b>0.0907</b>	<b>0.0000</b>	<b>452.5775</b>

	ROG	NOx	CO	SO2	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	27.52	0.00	14.69	33.11	0.00	9.60	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-6-2020	4-5-2020	1.1474	1.1474
2	4-6-2020	7-5-2020	0.7652	0.7652
3	7-6-2020	10-5-2020	0.7737	0.7737
4	10-6-2020	1-5-2021	0.7714	0.7714
5	1-6-2021	4-5-2021	0.6878	0.6878
6	4-6-2021	7-5-2021	0.6941	0.6941
7	7-6-2021	10-5-2021	0.7018	0.7018
8	10-6-2021	1-5-2022	0.8040	0.8040
		Highest	1.1474	1.1474

## 2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4873	6.9200e-003	0.5999	3.0000e-005		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	0.9793	0.9793	9.5000e-004	0.0000	1.0030
Energy	5.5200e-003	0.0472	0.0201	3.0000e-004		3.8100e-003	3.8100e-003		3.8100e-003	3.8100e-003	0.0000	152.7465	152.7465	5.1000e-003	1.8400e-003	153.4221
Mobile	0.0969	0.1493	1.2806	4.3600e-003	0.4874	3.2300e-003	0.4906	0.1295	2.9800e-003	0.1324	0.0000	395.1718	395.1718	0.0119	0.0000	395.4697
Waste						0.0000	0.0000		0.0000	0.0000	5.4158	0.0000	5.4158	0.3201	0.0000	13.4174
Water						0.0000	0.0000		0.0000	0.0000	2.2470	26.3488	28.5958	8.8200e-003	5.1100e-003	30.3396
<b>Total</b>	<b>0.5897</b>	<b>0.2034</b>	<b>1.9006</b>	<b>4.6900e-003</b>	<b>0.4874</b>	<b>0.0104</b>	<b>0.4977</b>	<b>0.1295</b>	<b>0.0101</b>	<b>0.1396</b>	<b>7.6628</b>	<b>575.2464</b>	<b>582.9091</b>	<b>0.3468</b>	<b>6.9500e-003</b>	<b>593.6517</b>

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4873	6.9200e-003	0.5999	3.0000e-005		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	0.9793	0.9793	9.5000e-004	0.0000	1.0030
Energy	4.3800e-003	0.0374	0.0159	2.4000e-004		3.0300e-003	3.0300e-003		3.0300e-003	3.0300e-003	0.0000	140.5279	140.5279	4.8400e-003	1.6200e-003	141.1332
Mobile	0.0969	0.1493	1.2806	4.3600e-003	0.4874	3.2300e-003	0.4906	0.1295	2.9800e-003	0.1324	0.0000	395.1718	395.1718	0.0119	0.0000	395.4697
Waste						0.0000	0.0000		0.0000	0.0000	5.4158	0.0000	5.4158	0.3201	0.0000	13.4174
Water						0.0000	0.0000		0.0000	0.0000	1.7976	21.0791	22.8767	7.0600e-003	4.0900e-003	24.2717
<b>Total</b>	<b>0.5886</b>	<b>0.1937</b>	<b>1.8965</b>	<b>4.6300e-003</b>	<b>0.4874</b>	<b>9.5700e-003</b>	<b>0.4969</b>	<b>0.1295</b>	<b>9.3200e-003</b>	<b>0.1388</b>	<b>7.2134</b>	<b>557.7580</b>	<b>564.9714</b>	<b>0.3448</b>	<b>5.7100e-003</b>	<b>575.2949</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.19</b>	<b>4.78</b>	<b>0.22</b>	<b>1.28</b>	<b>0.00</b>	<b>7.54</b>	<b>0.16</b>	<b>0.00</b>	<b>7.72</b>	<b>0.56</b>	<b>5.86</b>	<b>3.04</b>	<b>3.08</b>	<b>0.58</b>	<b>17.84</b>	<b>3.09</b>

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Asphalt and Building Demolition	Demolition	1/6/2020	2/27/2020	5	39	
2	Site Preparation	Site Preparation	2/28/2020	3/6/2020	5	6	
3	Grading	Grading	3/9/2020	3/24/2020	5	12	
4	Building Construction	Building Construction	3/25/2020	11/11/2021	5	427	
5	Paving	Paving	11/12/2021	12/8/2021	5	19	
6	Architectural Coating	Architectural Coating	12/9/2021	1/4/2022	5	19	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 6

Acres of Paving: 2.04

Residential Indoor: 239,661; Residential Outdoor: 79,887; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Asphalt and Building Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Asphalt and Building Demolition	Excavators	3	8.00	158	0.38
Asphalt and Building Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Asphalt and Building Demolition	6	15.00	0.00	390.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	66.00	17.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Asphalt and Building Demolition - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0333	0.0000	0.0333	5.0400e-003	0.0000	5.0400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0646	0.6474	0.4242	7.6000e-004		0.0323	0.0323		0.0301	0.0301	0.0000	66.2973	66.2973	0.0187	0.0000	66.7652
<b>Total</b>	<b>0.0646</b>	<b>0.6474</b>	<b>0.4242</b>	<b>7.6000e-004</b>	<b>0.0333</b>	<b>0.0323</b>	<b>0.0656</b>	<b>5.0400e-003</b>	<b>0.0301</b>	<b>0.0351</b>	<b>0.0000</b>	<b>66.2973</b>	<b>66.2973</b>	<b>0.0187</b>	<b>0.0000</b>	<b>66.7652</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4900e-003	0.0553	0.0139	1.5000e-004	3.3400e-003	1.7000e-004	3.5200e-003	9.2000e-004	1.7000e-004	1.0800e-003	0.0000	14.9950	14.9950	1.5800e-003	0.0000	15.0345
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1400e-003	8.0000e-004	9.0700e-003	3.0000e-005	3.2100e-003	2.0000e-005	3.2300e-003	8.5000e-004	2.0000e-005	8.7000e-004	0.0000	2.7792	2.7792	6.0000e-005	0.0000	2.7808
<b>Total</b>	<b>2.6300e-003</b>	<b>0.0561</b>	<b>0.0229</b>	<b>1.8000e-004</b>	<b>6.5500e-003</b>	<b>1.9000e-004</b>	<b>6.7500e-003</b>	<b>1.7700e-003</b>	<b>1.9000e-004</b>	<b>1.9500e-003</b>	<b>0.0000</b>	<b>17.7742</b>	<b>17.7742</b>	<b>1.6400e-003</b>	<b>0.0000</b>	<b>17.8153</b>

**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					0.0142	0.0000	0.0142	2.1500e-003	0.0000	2.1500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0646	0.6474	0.4242	7.6000e-004		0.0323	0.0323		0.0301	0.0301	0.0000	66.2972	66.2972	0.0187	0.0000	66.7651
<b>Total</b>	<b>0.0646</b>	<b>0.6474</b>	<b>0.4242</b>	<b>7.6000e-004</b>	<b>0.0142</b>	<b>0.0323</b>	<b>0.0466</b>	<b>2.1500e-003</b>	<b>0.0301</b>	<b>0.0322</b>	<b>0.0000</b>	<b>66.2972</b>	<b>66.2972</b>	<b>0.0187</b>	<b>0.0000</b>	<b>66.7651</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4900e-003	0.0553	0.0139	1.5000e-004	3.1200e-003	1.7000e-004	3.2900e-003	8.6000e-004	1.7000e-004	1.0300e-003	0.0000	14.9950	14.9950	1.5800e-003	0.0000	15.0345
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1400e-003	8.0000e-004	9.0700e-003	3.0000e-005	2.9600e-003	2.0000e-005	2.9800e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.7792	2.7792	6.0000e-005	0.0000	2.7808
<b>Total</b>	<b>2.6300e-003</b>	<b>0.0561</b>	<b>0.0229</b>	<b>1.8000e-004</b>	<b>6.0800e-003</b>	<b>1.9000e-004</b>	<b>6.2700e-003</b>	<b>1.6500e-003</b>	<b>1.9000e-004</b>	<b>1.8400e-003</b>	<b>0.0000</b>	<b>17.7742</b>	<b>17.7742</b>	<b>1.6400e-003</b>	<b>0.0000</b>	<b>17.8153</b>

**3.3 Site Preparation - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0542	0.0000	0.0542	0.0298	0.0000	0.0298	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0122	0.1273	0.0645	1.1000e-004		6.5900e-003	6.5900e-003		6.0600e-003	6.0600e-003	0.0000	10.0292	10.0292	3.2400e-003	0.0000	10.1103
<b>Total</b>	<b>0.0122</b>	<b>0.1273</b>	<b>0.0645</b>	<b>1.1000e-004</b>	<b>0.0542</b>	<b>6.5900e-003</b>	<b>0.0608</b>	<b>0.0298</b>	<b>6.0600e-003</b>	<b>0.0359</b>	<b>0.0000</b>	<b>10.0292</b>	<b>10.0292</b>	<b>3.2400e-003</b>	<b>0.0000</b>	<b>10.1103</b>



**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	6.4000e-004	1.7000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1461	0.1461	1.0000e-005	0.0000	0.1464
Worker	2.1000e-004	1.5000e-004	1.6700e-003	1.0000e-005	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5131	0.5131	1.0000e-005	0.0000	0.5134
<b>Total</b>	<b>2.3000e-004</b>	<b>7.9000e-004</b>	<b>1.8400e-003</b>	<b>1.0000e-005</b>	<b>6.3000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.6592</b>	<b>0.6592</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.6597</b>

**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					0.0232	0.0000	0.0232	0.0127	0.0000	0.0127	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0122	0.1273	0.0645	1.1000e-004		6.5900e-003	6.5900e-003		6.0600e-003	6.0600e-003	0.0000	10.0292	10.0292	3.2400e-003	0.0000	10.1103
<b>Total</b>	<b>0.0122</b>	<b>0.1273</b>	<b>0.0645</b>	<b>1.1000e-004</b>	<b>0.0232</b>	<b>6.5900e-003</b>	<b>0.0298</b>	<b>0.0127</b>	<b>6.0600e-003</b>	<b>0.0188</b>	<b>0.0000</b>	<b>10.0292</b>	<b>10.0292</b>	<b>3.2400e-003</b>	<b>0.0000</b>	<b>10.1103</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	6.4000e-004	1.7000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1461	0.1461	1.0000e-005	0.0000	0.1464
Worker	2.1000e-004	1.5000e-004	1.6700e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5131	0.5131	1.0000e-005	0.0000	0.5134
<b>Total</b>	<b>2.3000e-004</b>	<b>7.9000e-004</b>	<b>1.8400e-003</b>	<b>1.0000e-005</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>5.9000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.6592</b>	<b>0.6592</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.6597</b>

**3.4 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0393	0.0000	0.0393	0.0202	0.0000	0.0202	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0146	0.1583	0.0963	1.8000e-004		7.6400e-003	7.6400e-003		7.0300e-003	7.0300e-003	0.0000	15.6353	15.6353	5.0600e-003	0.0000	15.7617
<b>Total</b>	<b>0.0146</b>	<b>0.1583</b>	<b>0.0963</b>	<b>1.8000e-004</b>	<b>0.0393</b>	<b>7.6400e-003</b>	<b>0.0470</b>	<b>0.0202</b>	<b>7.0300e-003</b>	<b>0.0272</b>	<b>0.0000</b>	<b>15.6353</b>	<b>15.6353</b>	<b>5.0600e-003</b>	<b>0.0000</b>	<b>15.7617</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	2.5000e-004	2.7900e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8551	0.8551	2.0000e-005	0.0000	0.8556
<b>Total</b>	<b>3.5000e-004</b>	<b>2.5000e-004</b>	<b>2.7900e-003</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>2.6000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.8551</b>	<b>0.8551</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.8556</b>

**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					0.0168	0.0000	0.0168	8.6400e-003	0.0000	8.6400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0146	0.1583	0.0963	1.8000e-004		7.6400e-003	7.6400e-003		7.0300e-003	7.0300e-003	0.0000	15.6352	15.6352	5.0600e-003	0.0000	15.7617
<b>Total</b>	<b>0.0146</b>	<b>0.1583</b>	<b>0.0963</b>	<b>1.8000e-004</b>	<b>0.0168</b>	<b>7.6400e-003</b>	<b>0.0245</b>	<b>8.6400e-003</b>	<b>7.0300e-003</b>	<b>0.0157</b>	<b>0.0000</b>	<b>15.6352</b>	<b>15.6352</b>	<b>5.0600e-003</b>	<b>0.0000</b>	<b>15.7617</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	2.5000e-004	2.7900e-003	1.0000e-005	9.1000e-004	1.0000e-005	9.2000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.8551	0.8551	2.0000e-005	0.0000	0.8556
<b>Total</b>	<b>3.5000e-004</b>	<b>2.5000e-004</b>	<b>2.7900e-003</b>	<b>1.0000e-005</b>	<b>9.1000e-004</b>	<b>1.0000e-005</b>	<b>9.2000e-004</b>	<b>2.4000e-004</b>	<b>1.0000e-005</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.8551</b>	<b>0.8551</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.8556</b>

**3.5 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2141	1.9378	1.7017	2.7200e-003		0.1128	0.1128		0.1061	0.1061	0.0000	233.9261	233.9261	0.0571	0.0000	235.3528
<b>Total</b>	<b>0.2141</b>	<b>1.9378</b>	<b>1.7017</b>	<b>2.7200e-003</b>		<b>0.1128</b>	<b>0.1128</b>		<b>0.1061</b>	<b>0.1061</b>	<b>0.0000</b>	<b>233.9261</b>	<b>233.9261</b>	<b>0.0571</b>	<b>0.0000</b>	<b>235.3528</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.5900e-003	0.1821	0.0495	4.2000e-004	0.0108	9.4000e-004	0.0118	3.1200e-003	9.0000e-004	4.0200e-003	0.0000	41.7961	41.7961	3.4900e-003	0.0000	41.8834
Worker	0.0260	0.0182	0.2066	7.0000e-004	0.0732	4.9000e-004	0.0737	0.0194	4.5000e-004	0.0199	0.0000	63.3377	63.3377	1.4500e-003	0.0000	63.3738
<b>Total</b>	<b>0.0316</b>	<b>0.2003</b>	<b>0.2562</b>	<b>1.1200e-003</b>	<b>0.0840</b>	<b>1.4300e-003</b>	<b>0.0854</b>	<b>0.0226</b>	<b>1.3500e-003</b>	<b>0.0239</b>	<b>0.0000</b>	<b>105.1338</b>	<b>105.1338</b>	<b>4.9400e-003</b>	<b>0.0000</b>	<b>105.2573</b>

**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	0.2141	1.9378	1.7017	2.7200e-003		0.1128	0.1128		0.1061	0.1061	0.0000	233.9258	233.9258	0.0571	0.0000	235.3526
<b>Total</b>	<b>0.2141</b>	<b>1.9378</b>	<b>1.7017</b>	<b>2.7200e-003</b>		<b>0.1128</b>	<b>0.1128</b>		<b>0.1061</b>	<b>0.1061</b>	<b>0.0000</b>	<b>233.9258</b>	<b>233.9258</b>	<b>0.0571</b>	<b>0.0000</b>	<b>235.3526</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.5900e-003	0.1821	0.0495	4.2000e-004	0.0101	9.4000e-004	0.0111	2.9500e-003	9.0000e-004	3.8500e-003	0.0000	41.7961	41.7961	3.4900e-003	0.0000	41.8834
Worker	0.0260	0.0182	0.2066	7.0000e-004	0.0675	4.9000e-004	0.0680	0.0180	4.5000e-004	0.0185	0.0000	63.3377	63.3377	1.4500e-003	0.0000	63.3738
<b>Total</b>	<b>0.0316</b>	<b>0.2003</b>	<b>0.2562</b>	<b>1.1200e-003</b>	<b>0.0776</b>	<b>1.4300e-003</b>	<b>0.0790</b>	<b>0.0210</b>	<b>1.3500e-003</b>	<b>0.0223</b>	<b>0.0000</b>	<b>105.1338</b>	<b>105.1338</b>	<b>4.9400e-003</b>	<b>0.0000</b>	<b>105.2573</b>

**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	0.2139	1.9611	1.8647	3.0300e-003		0.1078	0.1078		0.1014	0.1014	0.0000	260.5919	260.5919	0.0629	0.0000	262.1637
<b>Total</b>	<b>0.2139</b>	<b>1.9611</b>	<b>1.8647</b>	<b>3.0300e-003</b>		<b>0.1078</b>	<b>0.1078</b>		<b>0.1014</b>	<b>0.1014</b>	<b>0.0000</b>	<b>260.5919</b>	<b>260.5919</b>	<b>0.0629</b>	<b>0.0000</b>	<b>262.1637</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.2200e-003	0.1822	0.0511	4.7000e-004	0.0120	3.8000e-004	0.0124	3.4700e-003	3.6000e-004	3.8300e-003	0.0000	46.1541	46.1541	3.7400e-003	0.0000	46.2475	
Worker	0.0272	0.0183	0.2133	7.5000e-004	0.0815	5.4000e-004	0.0821	0.0217	4.9000e-004	0.0221	0.0000	68.1013	68.1013	1.4600e-003	0.0000	68.1378	
<b>Total</b>	<b>0.0324</b>	<b>0.2005</b>	<b>0.2644</b>	<b>1.2200e-003</b>	<b>0.0936</b>	<b>9.2000e-004</b>	<b>0.0945</b>	<b>0.0251</b>	<b>8.5000e-004</b>	<b>0.0260</b>	<b>0.0000</b>	<b>114.2554</b>	<b>114.2554</b>	<b>5.2000e-003</b>	<b>0.0000</b>	<b>114.3853</b>	

**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	0.2139	1.9611	1.8647	3.0300e-003		0.1078	0.1078		0.1014	0.1014	0.0000	260.5916	260.5916	0.0629	0.0000	262.1634
<b>Total</b>	<b>0.2139</b>	<b>1.9611</b>	<b>1.8647</b>	<b>3.0300e-003</b>		<b>0.1078</b>	<b>0.1078</b>		<b>0.1014</b>	<b>0.1014</b>	<b>0.0000</b>	<b>260.5916</b>	<b>260.5916</b>	<b>0.0629</b>	<b>0.0000</b>	<b>262.1634</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.2200e-003	0.1822	0.0511	4.7000e-004	0.0113	3.8000e-004	0.0117	3.2800e-003	3.6000e-004	3.6500e-003	0.0000	46.1541	46.1541	3.7400e-003	0.0000	46.2475
Worker	0.0272	0.0183	0.2133	7.5000e-004	0.0752	5.4000e-004	0.0757	0.0201	4.9000e-004	0.0206	0.0000	68.1013	68.1013	1.4600e-003	0.0000	68.1378
<b>Total</b>	<b>0.0324</b>	<b>0.2005</b>	<b>0.2644</b>	<b>1.2200e-003</b>	<b>0.0864</b>	<b>9.2000e-004</b>	<b>0.0873</b>	<b>0.0234</b>	<b>8.5000e-004</b>	<b>0.0242</b>	<b>0.0000</b>	<b>114.2554</b>	<b>114.2554</b>	<b>5.2000e-003</b>	<b>0.0000</b>	<b>114.3853</b>

**3.6 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0104	0.1030	0.1165	1.8000e-004		5.5000e-003	5.5000e-003		5.0800e-003	5.0800e-003	0.0000	15.5521	15.5521	4.8900e-003	0.0000	15.6743
Paving	1.7000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0121</b>	<b>0.1030</b>	<b>0.1165</b>	<b>1.8000e-004</b>		<b>5.5000e-003</b>	<b>5.5000e-003</b>		<b>5.0800e-003</b>	<b>5.0800e-003</b>	<b>0.0000</b>	<b>15.5521</b>	<b>15.5521</b>	<b>4.8900e-003</b>	<b>0.0000</b>	<b>15.6743</b>



**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.8100e-003	5.1000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.4585	0.4585	4.0000e-005	0.0000	0.4595
Worker	7.0000e-004	4.7000e-004	5.4600e-003	2.0000e-005	2.0900e-003	1.0000e-005	2.1000e-003	5.5000e-004	1.0000e-005	5.7000e-004	0.0000	1.7427	1.7427	4.0000e-005	0.0000	1.7436
<b>Total</b>	<b>7.5000e-004</b>	<b>2.2800e-003</b>	<b>5.9700e-003</b>	<b>2.0000e-005</b>	<b>2.2100e-003</b>	<b>1.0000e-005</b>	<b>2.2200e-003</b>	<b>5.8000e-004</b>	<b>1.0000e-005</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>2.2012</b>	<b>2.2012</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.2030</b>

**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	0.0104	0.1030	0.1165	1.8000e-004		5.5000e-003	5.5000e-003		5.0800e-003	5.0800e-003	0.0000	15.5521	15.5521	4.8900e-003	0.0000	15.6742
Paving	1.7000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0121</b>	<b>0.1030</b>	<b>0.1165</b>	<b>1.8000e-004</b>		<b>5.5000e-003</b>	<b>5.5000e-003</b>		<b>5.0800e-003</b>	<b>5.0800e-003</b>	<b>0.0000</b>	<b>15.5521</b>	<b>15.5521</b>	<b>4.8900e-003</b>	<b>0.0000</b>	<b>15.6742</b>

**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	0.0000
Vendor	5.0000e-005	1.8100e-003	5.1000e-004	0.0000	1.1000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.4585	0.4585	4.0000e-005	0.0000	0.4595	
Worker	7.0000e-004	4.7000e-004	5.4600e-003	2.0000e-005	1.9200e-003	1.0000e-005	1.9400e-003	5.1000e-004	1.0000e-005	5.3000e-004	0.0000	1.7427	1.7427	4.0000e-005	0.0000	1.7436	
<b>Total</b>	<b>7.5000e-004</b>	<b>2.2800e-003</b>	<b>5.9700e-003</b>	<b>2.0000e-005</b>	<b>2.0300e-003</b>	<b>1.0000e-005</b>	<b>2.0600e-003</b>	<b>5.4000e-004</b>	<b>1.0000e-005</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>2.2012</b>	<b>2.2012</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.2030</b>	

**3.7 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Archit. Coating	0.3383					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8600e-003	0.0130	0.0155	3.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	2.1703	2.1703	1.5000e-004	0.0000	2.1740	
<b>Total</b>	<b>0.3402</b>	<b>0.0130</b>	<b>0.0155</b>	<b>3.0000e-005</b>		<b>8.0000e-004</b>	<b>8.0000e-004</b>		<b>8.0000e-004</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>2.1740</b>	

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.7000e-004	3.1700e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.0135	1.0135	2.0000e-005	0.0000	1.0140
<b>Total</b>	<b>4.0000e-004</b>	<b>2.7000e-004</b>	<b>3.1700e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>1.0000e-005</b>	<b>1.2200e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>1.0135</b>	<b>1.0135</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.0140</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3383					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8600e-003	0.0130	0.0155	3.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	2.1703	2.1703	1.5000e-004	0.0000	2.1740
<b>Total</b>	<b>0.3402</b>	<b>0.0130</b>	<b>0.0155</b>	<b>3.0000e-005</b>		<b>8.0000e-004</b>	<b>8.0000e-004</b>		<b>8.0000e-004</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>2.1740</b>

**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	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.7000e-004	3.1700e-003	1.0000e-005	1.1200e-003	1.0000e-005	1.1300e-003	3.0000e-004	1.0000e-005	3.1000e-004	0.0000	1.0135	1.0135	2.0000e-005	0.0000	1.0140	
<b>Total</b>	<b>4.0000e-004</b>	<b>2.7000e-004</b>	<b>3.1700e-003</b>	<b>1.0000e-005</b>	<b>1.1200e-003</b>	<b>1.0000e-005</b>	<b>1.1300e-003</b>	<b>3.0000e-004</b>	<b>1.0000e-005</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>1.0135</b>	<b>1.0135</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.0140</b>	

**3.7 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Archit. Coating	0.0398					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0000e-004	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557	
<b>Total</b>	<b>0.0400</b>	<b>1.4100e-003</b>	<b>1.8100e-003</b>	<b>0.0000</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.2553</b>	<b>0.2553</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.2557</b>	

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	3.0000e-005	3.5000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1148	0.1148	0.0000	0.0000	0.1149	
<b>Total</b>	<b>5.0000e-005</b>	<b>3.0000e-005</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1148</b>	<b>0.1148</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1149</b>	

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Archit. Coating	0.0398					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0000e-004	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557	
<b>Total</b>	<b>0.0400</b>	<b>1.4100e-003</b>	<b>1.8100e-003</b>	<b>0.0000</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.2553</b>	<b>0.2553</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.2557</b>	

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	3.0000e-005	3.5000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1148	0.1148	0.0000	0.0000	0.1149
<b>Total</b>	<b>5.0000e-005</b>	<b>3.0000e-005</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1148</b>	<b>0.1148</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1149</b>

### 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	0.0969	0.1493	1.2806	4.3600e-003	0.4874	3.2300e-003	0.4906	0.1295	2.9800e-003	0.1324	0.0000	395.1718	395.1718	0.0119	0.0000	395.4697
Unmitigated	0.0969	0.1493	1.2806	4.3600e-003	0.4874	3.2300e-003	0.4906	0.1295	2.9800e-003	0.1324	0.0000	395.1718	395.1718	0.0119	0.0000	395.4697

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Condo/Townhouse	439.06	472.12	364.24	1,304,439	1,304,439
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>439.06</b>	<b>472.12</b>	<b>364.24</b>	<b>1,304,439</b>	<b>1,304,439</b>

### 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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	71	29	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.664531	0.051237	0.247964	0.020000	0.002418	0.000901	0.004017	0.002664	0.000000	0.000000	0.006268	0.000000	0.000000
Other Non-Asphalt Surfaces	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Parking Lot	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934

### 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Exceed Title 24

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	97.1756	97.1756	4.0100e-003	8.3000e-004	97.5233
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	98.1315	98.1315	4.0500e-003	8.4000e-004	98.4825
NaturalGas Mitigated	4.3800e-003	0.0374	0.0159	2.4000e-004		3.0300e-003	3.0300e-003		3.0300e-003	3.0300e-003	0.0000	43.3523	43.3523	8.3000e-004	7.9000e-004	43.6099
NaturalGas Unmitigated	5.5200e-003	0.0472	0.0201	3.0000e-004		3.8100e-003	3.8100e-003		3.8100e-003	3.8100e-003	0.0000	54.6150	54.6150	1.0500e-003	1.0000e-003	54.9396

### 5.2 Energy by Land Use - NaturalGas

**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	tons/yr										MT/yr					
Condo/Townhouse	1.02345e+006	5.5200e-003	0.0472	0.0201	3.0000e-004		3.8100e-003	3.8100e-003		3.8100e-003	3.8100e-003	0.0000	54.6150	54.6150	1.0500e-003	1.0000e-003	54.9396
Other Non-Asphalt Surfaces	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
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
<b>Total</b>		<b>5.5200e-003</b>	<b>0.0472</b>	<b>0.0201</b>	<b>3.0000e-004</b>		<b>3.8100e-003</b>	<b>3.8100e-003</b>		<b>3.8100e-003</b>	<b>3.8100e-003</b>	<b>0.0000</b>	<b>54.6150</b>	<b>54.6150</b>	<b>1.0500e-003</b>	<b>1.0000e-003</b>	<b>54.9396</b>

**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					
Condo/Townhouse	812391	4.3800e-003	0.0374	0.0159	2.4000e-004		3.0300e-003	3.0300e-003		3.0300e-003	3.0300e-003	0.0000	43.3523	43.3523	8.3000e-004	7.9000e-004	43.6099
Other Non-Asphalt Surfaces	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
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
<b>Total</b>		<b>4.3800e-003</b>	<b>0.0374</b>	<b>0.0159</b>	<b>2.4000e-004</b>		<b>3.0300e-003</b>	<b>3.0300e-003</b>		<b>3.0300e-003</b>	<b>3.0300e-003</b>	<b>0.0000</b>	<b>43.3523</b>	<b>43.3523</b>	<b>8.3000e-004</b>	<b>7.9000e-004</b>	<b>43.6099</b>



### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	288174	91.8185	3.7900e-003	7.8000e-004	92.1469
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	19813.5	6.3130	2.6000e-004	5.0000e-005	6.3356
<b>Total</b>		<b>98.1315</b>	<b>4.0500e-003</b>	<b>8.3000e-004</b>	<b>98.4825</b>

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	285174	90.8626	3.7500e-003	7.8000e-004	91.1877
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	19813.5	6.3130	2.6000e-004	5.0000e-005	6.3356
<b>Total</b>		<b>97.1756</b>	<b>4.0100e-003</b>	<b>8.3000e-004</b>	<b>97.5233</b>

### 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	0.4873	6.9200e-003	0.5999	3.0000e-005		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	0.9793	0.9793	9.5000e-004	0.0000	1.0030
Unmitigated	0.4873	6.9200e-003	0.5999	3.0000e-005		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	0.9793	0.9793	9.5000e-004	0.0000	1.0030

## 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	0.0378					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4313					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0182	6.9200e-003	0.5999	3.0000e-005		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	0.9793	0.9793	9.5000e-004	0.0000	1.0030
<b>Total</b>	<b>0.4873</b>	<b>6.9200e-003</b>	<b>0.5999</b>	<b>3.0000e-005</b>		<b>3.3100e-003</b>	<b>3.3100e-003</b>		<b>3.3100e-003</b>	<b>3.3100e-003</b>	<b>0.0000</b>	<b>0.9793</b>	<b>0.9793</b>	<b>9.5000e-004</b>	<b>0.0000</b>	<b>1.0030</b>

**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	0.0378					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4313					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0182	6.9200e-003	0.5999	3.0000e-005		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	0.9793	0.9793	9.5000e-004	0.0000	1.0030
<b>Total</b>	<b>0.4873</b>	<b>6.9200e-003</b>	<b>0.5999</b>	<b>3.0000e-005</b>		<b>3.3100e-003</b>	<b>3.3100e-003</b>		<b>3.3100e-003</b>	<b>3.3100e-003</b>	<b>0.0000</b>	<b>0.9793</b>	<b>0.9793</b>	<b>9.5000e-004</b>	<b>0.0000</b>	<b>1.0030</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	22.8767	7.0600e-003	4.0900e-003	24.2717
Unmitigated	28.5958	8.8200e-003	5.1100e-003	30.3396

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	6.351 / 0	28.5958	8.8200e-003	5.1100e-003	30.3396
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>28.5958</b>	<b>8.8200e-003</b>	<b>5.1100e-003</b>	<b>30.3396</b>

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	5.0808 / 0	22.8767	7.0600e-003	4.0900e-003	24.2717
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>22.8767</b>	<b>7.0600e-003</b>	<b>4.0900e-003</b>	<b>24.2717</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	5.4158	0.3201	0.0000	13.4174
Unmitigated	5.4158	0.3201	0.0000	13.4174

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	26.68	5.4158	0.3201	0.0000	13.4174
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>5.4158</b>	<b>0.3201</b>	<b>0.0000</b>	<b>13.4174</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	26.68	5.4158	0.3201	0.0000	13.4174
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>5.4158</b>	<b>0.3201</b>	<b>0.0000</b>	<b>13.4174</b>

## 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

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### 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

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Residences at Nohl Ranch Operation and Construction 2022 - Orange County, Summer

**Residences at Nohl Ranch Operation and Construction 2022  
Orange County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	32.23	1000sqft	0.74	0.00	0
Parking Lot	56.61	1000sqft	1.30	56,610.00	0
Condo/Townhouse	58.00	Dwelling Unit	1.11	118,351.00	166

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8	<b>Operational Year</b>	2022		
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Refer to CalEEMod inputs.

Construction Phase - Based on a two year construction schedule.

Trips and VMT - Added concrete and water trucks.

Demolition -

Grading -

Vehicle Trips - Refer to CalEEMod inputs.



Woodstoves - No woodstoves or fireplaces.

Water And Wastewater - Refer to CalEEMod inputs.

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 and 1186

Energy Mitigation -

Water Mitigation -

Fleet Mix - Refer to CalEEMod inputs Fleet Mix.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	39.00
tblConstructionPhase	NumDays	5.00	6.00
tblConstructionPhase	NumDays	8.00	12.00
tblConstructionPhase	NumDays	230.00	427.00
tblConstructionPhase	NumDays	18.00	19.00
tblConstructionPhase	NumDays	18.00	19.00
tblConstructionPhase	PhaseEndDate	1/31/2020	2/27/2020
tblConstructionPhase	PhaseEndDate	2/7/2020	3/6/2020
tblConstructionPhase	PhaseEndDate	2/19/2020	3/24/2020
tblConstructionPhase	PhaseEndDate	1/6/2021	11/11/2021
tblConstructionPhase	PhaseEndDate	2/1/2021	12/8/2021
tblConstructionPhase	PhaseEndDate	2/25/2021	1/4/2022
tblConstructionPhase	PhaseStartDate	2/1/2020	2/28/2020
tblConstructionPhase	PhaseStartDate	2/8/2020	3/9/2020
tblConstructionPhase	PhaseStartDate	2/20/2020	3/25/2020
tblConstructionPhase	PhaseStartDate	1/7/2021	11/12/2021
tblConstructionPhase	PhaseStartDate	2/2/2021	12/9/2021
tblFireplaces	NumberGas	49.30	0.00
tblFireplaces	NumberNoFireplace	5.80	0.00
tblFireplaces	NumberWood	2.90	0.00
tblFleetMix	HHD	0.02	2.6640e-003

tblFleetMix	LDA	0.56	0.66
tblFleetMix	LDT1	0.04	0.05
tblFleetMix	LDT2	0.21	0.25
tblFleetMix	LHD1	0.02	2.4180e-003
tblFleetMix	LHD2	5.7950e-003	9.0100e-004
tblFleetMix	MCY	4.9260e-003	6.2680e-003
tblFleetMix	MDV	0.11	0.02
tblFleetMix	MH	9.3400e-004	0.00
tblFleetMix	MHD	0.03	4.0170e-003
tblFleetMix	OBUS	1.7470e-003	0.00
tblFleetMix	SBUS	5.9400e-004	0.00
tblFleetMix	UBUS	1.5420e-003	0.00
tblLandUse	LandUseSquareFeet	32,230.00	0.00
tblLandUse	LandUseSquareFeet	58,000.00	118,351.00
tblLandUse	LotAcreage	3.63	1.11
tblTripsAndVMT	HaulingTripNumber	308.00	390.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	15.00	17.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleTrips	DV_TP	11.00	29.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	71.00
tblVehicleTrips	ST_TR	5.67	8.14
tblVehicleTrips	SU_TR	4.84	6.28
tblVehicleTrips	WD_TR	5.81	7.57
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	3,778,933.49	6,351,000.00
tblWater	OutdoorWaterUseRate	2,382,371.11	0.00
tblWater	SepticTankPercent	10.33	0.00

tblWoodstoves	NumberCatalytic	2.90	0.00
tblWoodstoves	NumberNoncatalytic	2.90	0.00

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.1520	42.6693	22.9390	0.0481	18.2802	2.1998	20.4801	9.9877	2.0239	12.0116	0.0000	4,764.2694	4,764.2694	1.2007	0.0000	4,793.0219
2021	40.0710	19.1711	19.0123	0.0381	0.8463	0.9667	1.8131	0.2269	0.9088	1.1357	0.0000	3,704.7593	3,704.7593	0.6667	0.0000	3,721.4272
2022	40.0540	1.4342	2.1821	4.2900e-003	0.1453	0.0826	0.2280	0.0385	0.0826	0.1211	0.0000	413.1642	413.1642	0.0210	0.0000	413.6888
<b>Maximum</b>	<b>40.0710</b>	<b>42.6693</b>	<b>22.9390</b>	<b>0.0481</b>	<b>18.2802</b>	<b>2.1998</b>	<b>20.4801</b>	<b>9.9877</b>	<b>2.0239</b>	<b>12.0116</b>	<b>0.0000</b>	<b>4,764.2694</b>	<b>4,764.2694</b>	<b>1.2007</b>	<b>0.0000</b>	<b>4,793.0219</b>

#### Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.1520	42.6693	22.9390	0.0481	7.9208	2.1998	10.1206	4.2983	2.0239	6.3222	0.0000	4,764.2694	4,764.2694	1.2007	0.0000	4,793.0219
2021	40.0710	19.1711	19.0123	0.0381	0.7816	0.9667	1.7484	0.2110	0.9088	1.1199	0.0000	3,704.7593	3,704.7593	0.6667	0.0000	3,721.4272
2022	40.0540	1.4342	2.1821	4.2900e-003	0.1339	0.0826	0.2166	0.0358	0.0826	0.1183	0.0000	413.1642	413.1642	0.0210	0.0000	413.6888
<b>Maximum</b>	<b>40.0710</b>	<b>42.6693</b>	<b>22.9390</b>	<b>0.0481</b>	<b>7.9208</b>	<b>2.1998</b>	<b>10.1206</b>	<b>4.2983</b>	<b>2.0239</b>	<b>6.3222</b>	<b>0.0000</b>	<b>4,764.2694</b>	<b>4,764.2694</b>	<b>1.2007</b>	<b>0.0000</b>	<b>4,793.0219</b>

	ROG	NOx	CO	SO2	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	54.15	0.00	46.34	55.67	0.00	43.02	0.00	0.00	0.00	0.00	0.00	0.00

## 2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.7161	0.0553	4.7993	2.5000e-004		0.0265	0.0265		0.0265	0.0265	0.0000	8.6355	8.6355	8.3600e-003	0.0000	8.8446
Energy	0.0302	0.2584	0.1100	1.6500e-003		0.0209	0.0209		0.0209	0.0209		329.8780	329.8780	6.3200e-003	6.0500e-003	331.8383
Mobile	0.6126	0.8237	7.9383	0.0271	2.9721	0.0194	2.9915	0.7885	0.0179	0.8063		2,713.8476	2,713.8476	0.0797		2,715.8392
<b>Total</b>	<b>3.3589</b>	<b>1.1375</b>	<b>12.8475</b>	<b>0.0290</b>	<b>2.9721</b>	<b>0.0668</b>	<b>3.0389</b>	<b>0.7885</b>	<b>0.0653</b>	<b>0.8537</b>	<b>0.0000</b>	<b>3,052.3611</b>	<b>3,052.3611</b>	<b>0.0944</b>	<b>6.0500e-003</b>	<b>3,056.5221</b>

## 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	2.7161	0.0553	4.7993	2.5000e-004		0.0265	0.0265		0.0265	0.0265	0.0000	8.6355	8.6355	8.3600e-003	0.0000	8.8446
Energy	0.0240	0.2051	0.0873	1.3100e-003		0.0166	0.0166		0.0166	0.0166		261.8504	261.8504	5.0200e-003	4.8000e-003	263.4065
Mobile	0.6126	0.8237	7.9383	0.0271	2.9721	0.0194	2.9915	0.7885	0.0179	0.8063		2,713.8476	2,713.8476	0.0797		2,715.8392
<b>Total</b>	<b>3.3527</b>	<b>1.0842</b>	<b>12.8248</b>	<b>0.0287</b>	<b>2.9721</b>	<b>0.0625</b>	<b>3.0346</b>	<b>0.7885</b>	<b>0.0609</b>	<b>0.8494</b>	<b>0.0000</b>	<b>2,984.3335</b>	<b>2,984.3335</b>	<b>0.0931</b>	<b>4.8000e-003</b>	<b>2,988.0903</b>

	ROG	NOx	CO	SO2	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	0.19	4.68	0.18	1.17	0.00	6.46	0.14	0.00	6.61	0.50	0.00	2.23	2.23	1.38	20.66	2.24

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Asphalt and Building Demolition	Demolition	1/6/2020	2/27/2020	5	39	
2	Site Preparation	Site Preparation	2/28/2020	3/6/2020	5	6	
3	Grading	Grading	3/9/2020	3/24/2020	5	12	
4	Building Construction	Building Construction	3/25/2020	11/11/2021	5	427	
5	Paving	Paving	11/12/2021	12/8/2021	5	19	
6	Architectural Coating	Architectural Coating	12/9/2021	1/4/2022	5	19	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 6

Acres of Paving: 2.04

Residential Indoor: 239,661; Residential Outdoor: 79,887; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Asphalt and Building Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Asphalt and Building Demolition	Excavators	3	8.00	158	0.38
Asphalt and Building Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40

Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Asphalt and Building	6	15.00	0.00	390.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	7	18.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	66.00	17.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	20.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	1	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating										

### 3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Asphalt and Building Demolition - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7064	0.0000	1.7064	0.2584	0.0000	0.2584			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
<b>Total</b>	<b>3.3121</b>	<b>33.2010</b>	<b>21.7532</b>	<b>0.0388</b>	<b>1.7064</b>	<b>1.6587</b>	<b>3.3651</b>	<b>0.2584</b>	<b>1.5419</b>	<b>1.8002</b>		<b>3,747.7049</b>	<b>3,747.7049</b>	<b>1.0580</b>		<b>3,774.1536</b>

#### 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	0.0755	2.7497	0.6948	7.6500e-003	0.1741	8.9000e-003	0.1830	0.0477	8.5200e-003	0.0562		853.0579	853.0579	0.0884		855.2685
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0576	0.0363	0.4910	1.6400e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455		163.5065	163.5065	3.7300e-003		163.5997
<b>Total</b>	<b>0.1332</b>	<b>2.7860</b>	<b>1.1858</b>	<b>9.2900e-003</b>	<b>0.3418</b>	<b>0.0100</b>	<b>0.3518</b>	<b>0.0921</b>	<b>9.5400e-003</b>	<b>0.1017</b>		<b>1,016.5644</b>	<b>1,016.5644</b>	<b>0.0922</b>		<b>1,018.8683</b>

**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					0.7295	0.0000	0.7295	0.1105	0.0000	0.1105			0.0000				0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580			3,774.1536
<b>Total</b>	<b>3.3121</b>	<b>33.2010</b>	<b>21.7532</b>	<b>0.0388</b>	<b>0.7295</b>	<b>1.6587</b>	<b>2.3882</b>	<b>0.1105</b>	<b>1.5419</b>	<b>1.6523</b>	<b>0.0000</b>	<b>3,747.7049</b>	<b>3,747.7049</b>	<b>1.0580</b>			<b>3,774.1536</b>

**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	0.0755	2.7497	0.6948	7.6500e-003	0.1622	8.9000e-003	0.1711	0.0447	8.5200e-003	0.0533		853.0579	853.0579	0.0884			855.2685
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000			0.0000
Worker	0.0576	0.0363	0.4910	1.6400e-003	0.1546	1.1100e-003	0.1557	0.0413	1.0200e-003	0.0423		163.5065	163.5065	3.7300e-003			163.5997
<b>Total</b>	<b>0.1332</b>	<b>2.7860</b>	<b>1.1858</b>	<b>9.2900e-003</b>	<b>0.3168</b>	<b>0.0100</b>	<b>0.3268</b>	<b>0.0860</b>	<b>9.5400e-003</b>	<b>0.0955</b>		<b>1,016.5644</b>	<b>1,016.5644</b>	<b>0.0922</b>			<b>1,018.8683</b>



### 3.3 Site Preparation - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000				0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918			3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>		<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>			<b>3,714.8975</b>

#### 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	6.3900e-003	0.2084	0.0550	5.0000e-004	0.0128	1.0900e-003	0.0139	3.6800e-003	1.0400e-003	4.7200e-003		54.2258	54.2258	4.3900e-003			54.3354
Worker	0.0692	0.0436	0.5892	1.9700e-003	0.2012	1.3300e-003	0.2025	0.0534	1.2300e-003	0.0546		196.2079	196.2079	4.4700e-003			196.3197
<b>Total</b>	<b>0.0756</b>	<b>0.2519</b>	<b>0.6442</b>	<b>2.4700e-003</b>	<b>0.2140</b>	<b>2.4200e-003</b>	<b>0.2164</b>	<b>0.0570</b>	<b>2.2700e-003</b>	<b>0.0593</b>		<b>250.4336</b>	<b>250.4336</b>	<b>8.8600e-003</b>			<b>250.6551</b>

**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					7.7233	0.0000	7.7233	4.2454	0.0000	4.2454			0.0000				0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918			3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>7.7233</b>	<b>2.1974</b>	<b>9.9207</b>	<b>4.2454</b>	<b>2.0216</b>	<b>6.2670</b>	<b>0.0000</b>	<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>			<b>3,714.8975</b>

**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	6.3900e-003	0.2084	0.0550	5.0000e-004	0.0120	1.0900e-003	0.0130	3.4800e-003	1.0400e-003	4.5200e-003		54.2258	54.2258	4.3900e-003			54.3354
Worker	0.0692	0.0436	0.5892	1.9700e-003	0.1855	1.3300e-003	0.1868	0.0495	1.2300e-003	0.0507		196.2079	196.2079	4.4700e-003			196.3197
<b>Total</b>	<b>0.0756</b>	<b>0.2519</b>	<b>0.6442</b>	<b>2.4700e-003</b>	<b>0.1974</b>	<b>2.4200e-003</b>	<b>0.1998</b>	<b>0.0530</b>	<b>2.2700e-003</b>	<b>0.0552</b>		<b>250.4336</b>	<b>250.4336</b>	<b>8.8600e-003</b>			<b>250.6551</b>

### 3.4 Grading - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716		2,872.4851	2,872.4851	0.9290		2,895.7106
<b>Total</b>	<b>2.4288</b>	<b>26.3859</b>	<b>16.0530</b>	<b>0.0297</b>	<b>6.5523</b>	<b>1.2734</b>	<b>7.8258</b>	<b>3.3675</b>	<b>1.1716</b>	<b>4.5390</b>		<b>2,872.4851</b>	<b>2,872.4851</b>	<b>0.9290</b>		<b>2,895.7106</b>

#### 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	0.0576	0.0363	0.4910	1.6400e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455		163.5065	163.5065	3.7300e-003		163.5997
<b>Total</b>	<b>0.0576</b>	<b>0.0363</b>	<b>0.4910</b>	<b>1.6400e-003</b>	<b>0.1677</b>	<b>1.1100e-003</b>	<b>0.1688</b>	<b>0.0445</b>	<b>1.0200e-003</b>	<b>0.0455</b>		<b>163.5065</b>	<b>163.5065</b>	<b>3.7300e-003</b>		<b>163.5997</b>

**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					2.8011	0.0000	2.8011	1.4396	0.0000	1.4396			0.0000				0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716	0.0000	2,872.4851	2,872.4851	0.9290			2,895.7106
<b>Total</b>	<b>2.4288</b>	<b>26.3859</b>	<b>16.0530</b>	<b>0.0297</b>	<b>2.8011</b>	<b>1.2734</b>	<b>4.0746</b>	<b>1.4396</b>	<b>1.1716</b>	<b>2.6112</b>	<b>0.0000</b>	<b>2,872.4851</b>	<b>2,872.4851</b>	<b>0.9290</b>			<b>2,895.7106</b>

**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	0.0576	0.0363	0.4910	1.6400e-003	0.1546	1.1100e-003	0.1557	0.0413	1.0200e-003	0.0423		163.5065	163.5065	3.7300e-003			163.5997
<b>Total</b>	<b>0.0576</b>	<b>0.0363</b>	<b>0.4910</b>	<b>1.6400e-003</b>	<b>0.1546</b>	<b>1.1100e-003</b>	<b>0.1557</b>	<b>0.0413</b>	<b>1.0200e-003</b>	<b>0.0423</b>		<b>163.5065</b>	<b>163.5065</b>	<b>3.7300e-003</b>			<b>163.5997</b>

### 3.5 Building Construction - 2020

#### Unmitigated Construction On-Site

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

#### 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	0.0543	1.7710	0.4674	4.2300e-003	0.1086	9.2400e-003	0.1179	0.0313	8.8400e-003	0.0401		460.9192	460.9192	0.0373		461.8511
Worker	0.2536	0.1598	2.1604	7.2200e-003	0.7377	4.8800e-003	0.7426	0.1957	4.4900e-003	0.2001		719.4288	719.4288	0.0164		719.8388
<b>Total</b>	<b>0.3079</b>	<b>1.9308</b>	<b>2.6278</b>	<b>0.0115</b>	<b>0.8463</b>	<b>0.0141</b>	<b>0.8605</b>	<b>0.2269</b>	<b>0.0133</b>	<b>0.2402</b>		<b>1,180.3480</b>	<b>1,180.3480</b>	<b>0.0537</b>		<b>1,181.6899</b>

**Mitigated Construction On-Site**

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

**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	0.0543	1.7710	0.4674	4.2300e-003	0.1016	9.2400e-003	0.1109	0.0295	8.8400e-003	0.0384		460.9192	460.9192	0.0373		461.8511
Worker	0.2536	0.1598	2.1604	7.2200e-003	0.6800	4.8800e-003	0.6849	0.1815	4.4900e-003	0.1860		719.4288	719.4288	0.0164		719.8388
<b>Total</b>	<b>0.3079</b>	<b>1.9308</b>	<b>2.6278</b>	<b>0.0115</b>	<b>0.7816</b>	<b>0.0141</b>	<b>0.7958</b>	<b>0.2110</b>	<b>0.0133</b>	<b>0.2244</b>		<b>1,180.3480</b>	<b>1,180.3480</b>	<b>0.0537</b>		<b>1,181.6899</b>

### 3.5 Building Construction - 2021

#### Unmitigated Construction On-Site

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

#### 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	0.0454	1.5948	0.4325	4.1900e-003	0.1086	3.3100e-003	0.1119	0.0313	3.1700e-003	0.0344		456.9473	456.9473	0.0358		457.8430
Worker	0.2382	0.1441	2.0046	6.9600e-003	0.7377	4.7800e-003	0.7425	0.1957	4.4000e-003	0.2000		694.4481	694.4481	0.0149		694.8199
<b>Total</b>	<b>0.2836</b>	<b>1.7390</b>	<b>2.4371</b>	<b>0.0112</b>	<b>0.8463</b>	<b>8.0900e-003</b>	<b>0.8544</b>	<b>0.2269</b>	<b>7.5700e-003</b>	<b>0.2345</b>		<b>1,151.3954</b>	<b>1,151.3954</b>	<b>0.0507</b>		<b>1,152.6630</b>

**Mitigated Construction On-Site**

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

**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	0.0454	1.5948	0.4325	4.1900e-003	0.1016	3.3100e-003	0.1050	0.0295	3.1700e-003	0.0327		456.9473	456.9473	0.0358		457.8430
Worker	0.2382	0.1441	2.0046	6.9600e-003	0.6800	4.7800e-003	0.6848	0.1815	4.4000e-003	0.1859		694.4481	694.4481	0.0149		694.8199
<b>Total</b>	<b>0.2836</b>	<b>1.7390</b>	<b>2.4371</b>	<b>0.0112</b>	<b>0.7816</b>	<b>8.0900e-003</b>	<b>0.7897</b>	<b>0.2110</b>	<b>7.5700e-003</b>	<b>0.2186</b>		<b>1,151.3954</b>	<b>1,151.3954</b>	<b>0.0507</b>		<b>1,152.6630</b>



### 3.6 Paving - 2021

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342		1,804.5523	1,804.5523	0.5670			1,818.7270
Paving	0.1793					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.2732</b>	<b>10.8399</b>	<b>12.2603</b>	<b>0.0189</b>		<b>0.5788</b>	<b>0.5788</b>		<b>0.5342</b>	<b>0.5342</b>		<b>1,804.5523</b>	<b>1,804.5523</b>	<b>0.5670</b>			<b>1,818.7270</b>

#### 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	5.3400e-003	0.1876	0.0509	4.9000e-004	0.0128	3.9000e-004	0.0132	3.6800e-003	3.7000e-004	4.0500e-003		53.7585	53.7585	4.2200e-003			53.8639
Worker	0.0722	0.0437	0.6075	2.1100e-003	0.2236	1.4500e-003	0.2250	0.0593	1.3300e-003	0.0606		210.4388	210.4388	4.5100e-003			210.5515
<b>Total</b>	<b>0.0775</b>	<b>0.2313</b>	<b>0.6584</b>	<b>2.6000e-003</b>	<b>0.2363</b>	<b>1.8400e-003</b>	<b>0.2382</b>	<b>0.0630</b>	<b>1.7000e-003</b>	<b>0.0647</b>		<b>264.1973</b>	<b>264.1973</b>	<b>8.7300e-003</b>			<b>264.4154</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342	0.0000	1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.1793					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.2732</b>	<b>10.8399</b>	<b>12.2603</b>	<b>0.0189</b>		<b>0.5788</b>	<b>0.5788</b>		<b>0.5342</b>	<b>0.5342</b>	<b>0.0000</b>	<b>1,804.5523</b>	<b>1,804.5523</b>	<b>0.5670</b>		<b>1,818.7270</b>

**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	5.3400e-003	0.1876	0.0509	4.9000e-004	0.0120	3.9000e-004	0.0124	3.4800e-003	3.7000e-004	3.8500e-003		53.7585	53.7585	4.2200e-003		53.8639
Worker	0.0722	0.0437	0.6075	2.1100e-003	0.2061	1.4500e-003	0.2075	0.0550	1.3300e-003	0.0563		210.4388	210.4388	4.5100e-003		210.5515
<b>Total</b>	<b>0.0775</b>	<b>0.2313</b>	<b>0.6584</b>	<b>2.6000e-003</b>	<b>0.2180</b>	<b>1.8400e-003</b>	<b>0.2199</b>	<b>0.0585</b>	<b>1.7000e-003</b>	<b>0.0602</b>		<b>264.1973</b>	<b>264.1973</b>	<b>8.7300e-003</b>		<b>264.4154</b>

### 3.7 Architectural Coating - 2021

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	39.8051					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
<b>Total</b>	<b>40.0240</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

#### 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	0.0469	0.0284	0.3949	1.3700e-003	0.1453	9.4000e-004	0.1463	0.0385	8.7000e-004	0.0394		136.7852	136.7852	2.9300e-003		136.8585
<b>Total</b>	<b>0.0469</b>	<b>0.0284</b>	<b>0.3949</b>	<b>1.3700e-003</b>	<b>0.1453</b>	<b>9.4000e-004</b>	<b>0.1463</b>	<b>0.0385</b>	<b>8.7000e-004</b>	<b>0.0394</b>		<b>136.7852</b>	<b>136.7852</b>	<b>2.9300e-003</b>		<b>136.8585</b>

**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	39.8051					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
<b>Total</b>	<b>40.0240</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

**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	0.0469	0.0284	0.3949	1.3700e-003	0.1339	9.4000e-004	0.1349	0.0358	8.7000e-004	0.0366		136.7852	136.7852	2.9300e-003		136.8585
<b>Total</b>	<b>0.0469</b>	<b>0.0284</b>	<b>0.3949</b>	<b>1.3700e-003</b>	<b>0.1339</b>	<b>9.4000e-004</b>	<b>0.1349</b>	<b>0.0358</b>	<b>8.7000e-004</b>	<b>0.0366</b>		<b>136.7852</b>	<b>136.7852</b>	<b>2.9300e-003</b>		<b>136.8585</b>

### 3.7 Architectural Coating - 2022

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	39.8051					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>40.0097</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

#### Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0443	0.0257	0.3685	1.3200e-003	0.1453	9.2000e-004	0.1462	0.0385	8.5000e-004	0.0394		131.7162	131.7162	2.6600e-003		131.7827
<b>Total</b>	<b>0.0443</b>	<b>0.0257</b>	<b>0.3685</b>	<b>1.3200e-003</b>	<b>0.1453</b>	<b>9.2000e-004</b>	<b>0.1462</b>	<b>0.0385</b>	<b>8.5000e-004</b>	<b>0.0394</b>		<b>131.7162</b>	<b>131.7162</b>	<b>2.6600e-003</b>		<b>131.7827</b>

**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	39.8051					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>40.0097</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0443	0.0257	0.3685	1.3200e-003	0.1339	9.2000e-004	0.1349	0.0358	8.5000e-004	0.0366		131.7162	131.7162	2.6600e-003		131.7827
<b>Total</b>	<b>0.0443</b>	<b>0.0257</b>	<b>0.3685</b>	<b>1.3200e-003</b>	<b>0.1339</b>	<b>9.2000e-004</b>	<b>0.1349</b>	<b>0.0358</b>	<b>8.5000e-004</b>	<b>0.0366</b>		<b>131.7162</b>	<b>131.7162</b>	<b>2.6600e-003</b>		<b>131.7827</b>

## 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	0.6126	0.8237	7.9383	0.0271	2.9721	0.0194	2.9915	0.7885	0.0179	0.8063		2,713.8476	2,713.8476	0.0797		2,715.8392
Unmitigated	0.6126	0.8237	7.9383	0.0271	2.9721	0.0194	2.9915	0.7885	0.0179	0.8063		2,713.8476	2,713.8476	0.0797		2,715.8392

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	439.06	472.12	364.24	1,304,439	1,304,439
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	439.06	472.12	364.24	1,304,439	1,304,439

### 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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	71	29	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.664531	0.051237	0.247964	0.020000	0.002418	0.000901	0.004017	0.002664	0.000000	0.000000	0.006268	0.000000	0.000000
Other Non-Asphalt Surfaces	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Parking Lot	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0240	0.2051	0.0873	1.3100e-003		0.0166	0.0166		0.0166	0.0166		261.8504	261.8504	5.0200e-003	4.8000e-003	263.4065
NaturalGas Unmitigated	0.0302	0.2584	0.1100	1.6500e-003		0.0209	0.0209		0.0209	0.0209		329.8780	329.8780	6.3200e-003	6.0500e-003	331.8383

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	2803.96	0.0302	0.2584	0.1100	1.6500e-003		0.0209	0.0209		0.0209	0.0209		329.8780	329.8780	6.3200e-003	6.0500e-003	331.8383
Other Non-Asphalt Surfaces	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
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
<b>Total</b>		<b>0.0302</b>	<b>0.2584</b>	<b>0.1100</b>	<b>1.6500e-003</b>		<b>0.0209</b>	<b>0.0209</b>		<b>0.0209</b>	<b>0.0209</b>		<b>329.8780</b>	<b>329.8780</b>	<b>6.3200e-003</b>	<b>6.0500e-003</b>	<b>331.8383</b>



**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					
Condo/Townhouse	2.22573	0.0240	0.2051	0.0873	1.3100e-003		0.0166	0.0166		0.0166	0.0166		261.8504	261.8504	5.0200e-003	4.8000e-003	263.4065
Other Non-Asphalt Surfaces	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
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
<b>Total</b>		<b>0.0240</b>	<b>0.2051</b>	<b>0.0873</b>	<b>1.3100e-003</b>		<b>0.0166</b>	<b>0.0166</b>		<b>0.0166</b>	<b>0.0166</b>		<b>261.8504</b>	<b>261.8504</b>	<b>5.0200e-003</b>	<b>4.8000e-003</b>	<b>263.4065</b>

**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	2.7161	0.0553	4.7993	2.5000e-004		0.0265	0.0265		0.0265	0.0265	0.0000	8.6355	8.6355	8.3600e-003	0.0000	8.8446
Unmitigated	2.7161	0.0553	4.7993	2.5000e-004		0.0265	0.0265		0.0265	0.0265	0.0000	8.6355	8.6355	8.3600e-003	0.0000	8.8446

**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	0.2072					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3634					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1455	0.0553	4.7993	2.5000e-004		0.0265	0.0265		0.0265	0.0265		8.6355	8.6355	8.3600e-003		8.8446
<b>Total</b>	<b>2.7161</b>	<b>0.0553</b>	<b>4.7993</b>	<b>2.5000e-004</b>		<b>0.0265</b>	<b>0.0265</b>		<b>0.0265</b>	<b>0.0265</b>	<b>0.0000</b>	<b>8.6355</b>	<b>8.6355</b>	<b>8.3600e-003</b>	<b>0.0000</b>	<b>8.8446</b>

### 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	0.2072					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3634					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1455	0.0553	4.7993	2.5000e-004		0.0265	0.0265		0.0265	0.0265		8.6355	8.6355	8.3600e-003		8.8446
<b>Total</b>	<b>2.7161</b>	<b>0.0553</b>	<b>4.7993</b>	<b>2.5000e-004</b>		<b>0.0265</b>	<b>0.0265</b>		<b>0.0265</b>	<b>0.0265</b>	<b>0.0000</b>	<b>8.6355</b>	<b>8.6355</b>	<b>8.3600e-003</b>	<b>0.0000</b>	<b>8.8446</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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### 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

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Residences at Nohl Ranch Operation and Construction 2022 - Orange County, Winter

**Residences at Nohl Ranch Operation and Construction 2022  
Orange County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	32.23	1000sqft	0.74	0.00	0
Parking Lot	56.61	1000sqft	1.30	56,610.00	0
Condo/Townhouse	58.00	Dwelling Unit	1.11	118,351.00	166

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Refer to CalEEMod inputs.

Construction Phase - Based on a two year construction schedule.

Trips and VMT - Added concrete and water trucks.

Demolition -

Grading -

Vehicle Trips - Refer to CalEEMod inputs.

Woodstoves - No woodstoves or fireplaces.

Water And Wastewater - Refer to CalEEMod inputs.

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 and 1186

Energy Mitigation -

Water Mitigation -

Fleet Mix - Refer to CalEEMod inputs Fleet Mix.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	39.00
tblConstructionPhase	NumDays	5.00	6.00
tblConstructionPhase	NumDays	8.00	12.00
tblConstructionPhase	NumDays	230.00	427.00
tblConstructionPhase	NumDays	18.00	19.00
tblConstructionPhase	NumDays	18.00	19.00
tblConstructionPhase	PhaseEndDate	1/31/2020	2/27/2020
tblConstructionPhase	PhaseEndDate	2/7/2020	3/6/2020
tblConstructionPhase	PhaseEndDate	2/19/2020	3/24/2020
tblConstructionPhase	PhaseEndDate	1/6/2021	11/11/2021
tblConstructionPhase	PhaseEndDate	2/1/2021	12/8/2021
tblConstructionPhase	PhaseEndDate	2/25/2021	1/4/2022
tblConstructionPhase	PhaseStartDate	2/1/2020	2/28/2020
tblConstructionPhase	PhaseStartDate	2/8/2020	3/9/2020
tblConstructionPhase	PhaseStartDate	2/20/2020	3/25/2020
tblConstructionPhase	PhaseStartDate	1/7/2021	11/12/2021
tblConstructionPhase	PhaseStartDate	2/2/2021	12/9/2021
tblFireplaces	NumberGas	49.30	0.00
tblFireplaces	NumberNoFireplace	5.80	0.00
tblFireplaces	NumberWood	2.90	0.00
tblFleetMix	HHD	0.02	2.6640e-003

tblFleetMix	LDA	0.56	0.66
tblFleetMix	LDT1	0.04	0.05
tblFleetMix	LDT2	0.21	0.25
tblFleetMix	LHD1	0.02	2.4180e-003
tblFleetMix	LHD2	5.7950e-003	9.0100e-004
tblFleetMix	MCY	4.9260e-003	6.2680e-003
tblFleetMix	MDV	0.11	0.02
tblFleetMix	MH	9.3400e-004	0.00
tblFleetMix	MHD	0.03	4.0170e-003
tblFleetMix	OBUS	1.7470e-003	0.00
tblFleetMix	SBUS	5.9400e-004	0.00
tblFleetMix	UBUS	1.5420e-003	0.00
tblLandUse	LandUseSquareFeet	32,230.00	0.00
tblLandUse	LandUseSquareFeet	58,000.00	118,351.00
tblLandUse	LotAcreage	3.63	1.11
tblTripsAndVMT	HaulingTripNumber	308.00	390.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	15.00	17.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleTrips	DV_TP	11.00	29.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	71.00
tblVehicleTrips	ST_TR	5.67	8.14
tblVehicleTrips	SU_TR	4.84	6.28
tblVehicleTrips	WD_TR	5.81	7.57
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	3,778,933.49	6,351,000.00
tblWater	OutdoorWaterUseRate	2,382,371.11	0.00
tblWater	SepticTankPercent	10.33	0.00

tblWoodstoves	NumberCatalytic	2.90	0.00
tblWoodstoves	NumberNoncatalytic	2.90	0.00

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.1613	42.6735	22.9385	0.0479	18.2802	2.1999	20.4801	9.9877	2.0239	12.0116	0.0000	4,742.6280	4,742.6280	1.2007	0.0000	4,771.4282
2021	40.0772	19.1816	18.8995	0.0376	0.8463	0.9668	1.8132	0.2269	0.9090	1.1359	0.0000	3,656.3344	3,656.3344	0.6677	0.0000	3,673.0262
2022	40.0600	1.4367	2.1531	4.2200e-003	0.1453	0.0826	0.2280	0.0385	0.0826	0.1211	0.0000	406.1153	406.1153	0.0208	0.0000	406.6363
<b>Maximum</b>	<b>40.0772</b>	<b>42.6735</b>	<b>22.9385</b>	<b>0.0479</b>	<b>18.2802</b>	<b>2.1999</b>	<b>20.4801</b>	<b>9.9877</b>	<b>2.0239</b>	<b>12.0116</b>	<b>0.0000</b>	<b>4,742.6280</b>	<b>4,742.6280</b>	<b>1.2007</b>	<b>0.0000</b>	<b>4,771.4282</b>

#### Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.1613	42.6735	22.9385	0.0479	7.9208	2.1999	10.1206	4.2983	2.0239	6.3222	0.0000	4,742.6280	4,742.6280	1.2007	0.0000	4,771.4282
2021	40.0772	19.1816	18.8995	0.0376	0.7816	0.9668	1.7485	0.2110	0.9090	1.1200	0.0000	3,656.3344	3,656.3344	0.6677	0.0000	3,673.0262
2022	40.0600	1.4367	2.1531	4.2200e-003	0.1339	0.0826	0.2166	0.0358	0.0826	0.1183	0.0000	406.1153	406.1153	0.0208	0.0000	406.6363
<b>Maximum</b>	<b>40.0772</b>	<b>42.6735</b>	<b>22.9385</b>	<b>0.0479</b>	<b>7.9208</b>	<b>2.1999</b>	<b>10.1206</b>	<b>4.2983</b>	<b>2.0239</b>	<b>6.3222</b>	<b>0.0000</b>	<b>4,742.6280</b>	<b>4,742.6280</b>	<b>1.2007</b>	<b>0.0000</b>	<b>4,771.4282</b>

	ROG	NOx	CO	SO2	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	54.15	0.00	46.34	55.67	0.00	43.02	0.00	0.00	0.00	0.00	0.00	0.00

## 2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.7161	0.0553	4.7993	2.5000e-004		0.0265	0.0265		0.0265	0.0265	0.0000	8.6355	8.6355	8.3600e-003	0.0000	8.8446
Energy	0.0302	0.2584	0.1100	1.6500e-003		0.0209	0.0209		0.0209	0.0209		329.8780	329.8780	6.3200e-003	6.0500e-003	331.8383
Mobile	0.5994	0.8768	7.5480	0.0257	2.9721	0.0194	2.9915	0.7885	0.0179	0.8063		2,573.9576	2,573.9576	0.0784		2,575.9171
<b>Total</b>	<b>3.3457</b>	<b>1.1905</b>	<b>12.4573</b>	<b>0.0276</b>	<b>2.9721</b>	<b>0.0668</b>	<b>3.0389</b>	<b>0.7885</b>	<b>0.0653</b>	<b>0.8537</b>	<b>0.0000</b>	<b>2,912.4711</b>	<b>2,912.4711</b>	<b>0.0931</b>	<b>6.0500e-003</b>	<b>2,916.6000</b>

## 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	2.7161	0.0553	4.7993	2.5000e-004		0.0265	0.0265		0.0265	0.0265	0.0000	8.6355	8.6355	8.3600e-003	0.0000	8.8446
Energy	0.0240	0.2051	0.0873	1.3100e-003		0.0166	0.0166		0.0166	0.0166		261.8504	261.8504	5.0200e-003	4.8000e-003	263.4065
Mobile	0.5994	0.8768	7.5480	0.0257	2.9721	0.0194	2.9915	0.7885	0.0179	0.8063		2,573.9576	2,573.9576	0.0784		2,575.9171
<b>Total</b>	<b>3.3395</b>	<b>1.1373</b>	<b>12.4346</b>	<b>0.0273</b>	<b>2.9721</b>	<b>0.0625</b>	<b>3.0346</b>	<b>0.7885</b>	<b>0.0610</b>	<b>0.8494</b>	<b>0.0000</b>	<b>2,844.4435</b>	<b>2,844.4435</b>	<b>0.0918</b>	<b>4.8000e-003</b>	<b>2,848.1682</b>



	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.19	4.48	0.18	1.23	0.00	6.45	0.14	0.00	6.60	0.50	0.00	2.34	2.34	1.40	20.66	2.35

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Asphalt and Building Demolition	Demolition	1/6/2020	2/27/2020	5	39	
2	Site Preparation	Site Preparation	2/28/2020	3/6/2020	5	6	
3	Grading	Grading	3/9/2020	3/24/2020	5	12	
4	Building Construction	Building Construction	3/25/2020	11/11/2021	5	427	
5	Paving	Paving	11/12/2021	12/8/2021	5	19	
6	Architectural Coating	Architectural Coating	12/9/2021	1/4/2022	5	19	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 6

Acres of Paving: 2.04

Residential Indoor: 239,661; Residential Outdoor: 79,887; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Asphalt and Building Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Asphalt and Building Demolition	Excavators	3	8.00	158	0.38
Asphalt and Building Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40

Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

### Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Asphalt and Building	6	15.00	0.00	390.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	7	18.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	66.00	17.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	20.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	1	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating										

### 3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Asphalt and Building Demolition - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7064	0.0000	1.7064	0.2584	0.0000	0.2584			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
<b>Total</b>	<b>3.3121</b>	<b>33.2010</b>	<b>21.7532</b>	<b>0.0388</b>	<b>1.7064</b>	<b>1.6587</b>	<b>3.3651</b>	<b>0.2584</b>	<b>1.5419</b>	<b>1.8002</b>		<b>3,747.7049</b>	<b>3,747.7049</b>	<b>1.0580</b>		<b>3,774.1536</b>

#### 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	0.0774	2.7843	0.7315	7.5400e-003	0.1741	9.0700e-003	0.1832	0.0477	8.6700e-003	0.0563		840.1799	840.1799	0.0905		842.4431
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0651	0.0399	0.4538	1.5500e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455		154.7432	154.7432	3.5300e-003		154.8314
<b>Total</b>	<b>0.1425</b>	<b>2.8242</b>	<b>1.1853</b>	<b>9.0900e-003</b>	<b>0.3418</b>	<b>0.0102</b>	<b>0.3520</b>	<b>0.0921</b>	<b>9.6900e-003</b>	<b>0.1018</b>		<b>994.9231</b>	<b>994.9231</b>	<b>0.0941</b>		<b>997.2746</b>

**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					0.7295	0.0000	0.7295	0.1105	0.0000	0.1105			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
<b>Total</b>	<b>3.3121</b>	<b>33.2010</b>	<b>21.7532</b>	<b>0.0388</b>	<b>0.7295</b>	<b>1.6587</b>	<b>2.3882</b>	<b>0.1105</b>	<b>1.5419</b>	<b>1.6523</b>	<b>0.0000</b>	<b>3,747.7049</b>	<b>3,747.7049</b>	<b>1.0580</b>		<b>3,774.1536</b>

**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	0.0774	2.7843	0.7315	7.5400e-003	0.1622	9.0700e-003	0.1713	0.0447	8.6700e-003	0.0534		840.1799	840.1799	0.0905		842.4431
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0651	0.0399	0.4538	1.5500e-003	0.1546	1.1100e-003	0.1557	0.0413	1.0200e-003	0.0423		154.7432	154.7432	3.5300e-003		154.8314
<b>Total</b>	<b>0.1425</b>	<b>2.8242</b>	<b>1.1853</b>	<b>9.0900e-003</b>	<b>0.3168</b>	<b>0.0102</b>	<b>0.3269</b>	<b>0.0860</b>	<b>9.6900e-003</b>	<b>0.0957</b>		<b>994.9231</b>	<b>994.9231</b>	<b>0.0941</b>		<b>997.2746</b>

### 3.3 Site Preparation - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>		<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

#### 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	6.6700e-003	0.2083	0.0603	4.9000e-004	0.0128	1.1100e-003	0.0139	3.6800e-003	1.0600e-003	4.7400e-003		52.8932	52.8932	4.6100e-003		53.0084
Worker	0.0782	0.0479	0.5446	1.8600e-003	0.2012	1.3300e-003	0.2025	0.0534	1.2300e-003	0.0546		185.6918	185.6918	4.2400e-003		185.7977
<b>Total</b>	<b>0.0848</b>	<b>0.2562</b>	<b>0.6049</b>	<b>2.3500e-003</b>	<b>0.2140</b>	<b>2.4400e-003</b>	<b>0.2164</b>	<b>0.0570</b>	<b>2.2900e-003</b>	<b>0.0593</b>		<b>238.5850</b>	<b>238.5850</b>	<b>8.8500e-003</b>		<b>238.8061</b>

**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					7.7233	0.0000	7.7233	4.2454	0.0000	4.2454			0.0000				0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216	0.0000	3,685.1016	3,685.1016	1.1918			3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>7.7233</b>	<b>2.1974</b>	<b>9.9207</b>	<b>4.2454</b>	<b>2.0216</b>	<b>6.2670</b>	<b>0.0000</b>	<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>			<b>3,714.8975</b>

**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	6.6700e-003	0.2083	0.0603	4.9000e-004	0.0120	1.1100e-003	0.0131	3.4800e-003	1.0600e-003	4.5300e-003		52.8932	52.8932	4.6100e-003			53.0084
Worker	0.0782	0.0479	0.5446	1.8600e-003	0.1855	1.3300e-003	0.1868	0.0495	1.2300e-003	0.0507		185.6918	185.6918	4.2400e-003			185.7977
<b>Total</b>	<b>0.0848</b>	<b>0.2562</b>	<b>0.6049</b>	<b>2.3500e-003</b>	<b>0.1974</b>	<b>2.4400e-003</b>	<b>0.1999</b>	<b>0.0530</b>	<b>2.2900e-003</b>	<b>0.0553</b>		<b>238.5850</b>	<b>238.5850</b>	<b>8.8500e-003</b>			<b>238.8061</b>

### 3.4 Grading - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716		2,872.4851	2,872.4851	0.9290		2,895.7106
<b>Total</b>	<b>2.4288</b>	<b>26.3859</b>	<b>16.0530</b>	<b>0.0297</b>	<b>6.5523</b>	<b>1.2734</b>	<b>7.8258</b>	<b>3.3675</b>	<b>1.1716</b>	<b>4.5390</b>		<b>2,872.4851</b>	<b>2,872.4851</b>	<b>0.9290</b>		<b>2,895.7106</b>

#### 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	0.0651	0.0399	0.4538	1.5500e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455		154.7432	154.7432	3.5300e-003		154.8314
<b>Total</b>	<b>0.0651</b>	<b>0.0399</b>	<b>0.4538</b>	<b>1.5500e-003</b>	<b>0.1677</b>	<b>1.1100e-003</b>	<b>0.1688</b>	<b>0.0445</b>	<b>1.0200e-003</b>	<b>0.0455</b>		<b>154.7432</b>	<b>154.7432</b>	<b>3.5300e-003</b>		<b>154.8314</b>

**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					2.8011	0.0000	2.8011	1.4396	0.0000	1.4396			0.0000				0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716	0.0000	2,872.4851	2,872.4851	0.9290			2,895.7106
<b>Total</b>	<b>2.4288</b>	<b>26.3859</b>	<b>16.0530</b>	<b>0.0297</b>	<b>2.8011</b>	<b>1.2734</b>	<b>4.0746</b>	<b>1.4396</b>	<b>1.1716</b>	<b>2.6112</b>	<b>0.0000</b>	<b>2,872.4851</b>	<b>2,872.4851</b>	<b>0.9290</b>			<b>2,895.7106</b>

**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	0.0651	0.0399	0.4538	1.5500e-003	0.1546	1.1100e-003	0.1557	0.0413	1.0200e-003	0.0423		154.7432	154.7432	3.5300e-003			154.8314
<b>Total</b>	<b>0.0651</b>	<b>0.0399</b>	<b>0.4538</b>	<b>1.5500e-003</b>	<b>0.1546</b>	<b>1.1100e-003</b>	<b>0.1557</b>	<b>0.0413</b>	<b>1.0200e-003</b>	<b>0.0423</b>		<b>154.7432</b>	<b>154.7432</b>	<b>3.5300e-003</b>			<b>154.8314</b>



### 3.5 Building Construction - 2020

#### Unmitigated Construction On-Site

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

#### 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	0.0567	1.7704	0.5124	4.1300e-003	0.1086	9.4000e-003	0.1180	0.0313	8.9900e-003	0.0403		449.5923	449.5923	0.0392			450.5713
Worker	0.2866	0.1756	1.9968	6.8300e-003	0.7377	4.8800e-003	0.7426	0.1957	4.4900e-003	0.2001		680.8700	680.8700	0.0155			681.2583
<b>Total</b>	<b>0.3433</b>	<b>1.9460</b>	<b>2.5091</b>	<b>0.0110</b>	<b>0.8463</b>	<b>0.0143</b>	<b>0.8606</b>	<b>0.2269</b>	<b>0.0135</b>	<b>0.2404</b>		<b>1,130.4622</b>	<b>1,130.4622</b>	<b>0.0547</b>			<b>1,131.8296</b>

**Mitigated Construction On-Site**

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

**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	0.0567	1.7704	0.5124	4.1300e-003	0.1016	9.4000e-003	0.1110	0.0295	8.9900e-003	0.0385		449.5923	449.5923	0.0392		450.5713
Worker	0.2866	0.1756	1.9968	6.8300e-003	0.6800	4.8800e-003	0.6849	0.1815	4.4900e-003	0.1860		680.8700	680.8700	0.0155		681.2583
<b>Total</b>	<b>0.3433</b>	<b>1.9460</b>	<b>2.5091</b>	<b>0.0110</b>	<b>0.7816</b>	<b>0.0143</b>	<b>0.7959</b>	<b>0.2110</b>	<b>0.0135</b>	<b>0.2245</b>		<b>1,130.4622</b>	<b>1,130.4622</b>	<b>0.0547</b>		<b>1,131.8296</b>

### 3.5 Building Construction - 2021

#### Unmitigated Construction On-Site

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

#### 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	0.0476	1.5911	0.4745	4.0900e-003	0.1086	3.4400e-003	0.1121	0.0313	3.2900e-003	0.0345		445.7213	445.7213	0.0376		446.6609
Worker	0.2697	0.1584	1.8498	6.5900e-003	0.7377	4.7800e-003	0.7425	0.1957	4.4000e-003	0.2000		657.2493	657.2493	0.0141		657.6011
<b>Total</b>	<b>0.3173</b>	<b>1.7495</b>	<b>2.3243</b>	<b>0.0107</b>	<b>0.8463</b>	<b>8.2200e-003</b>	<b>0.8546</b>	<b>0.2269</b>	<b>7.6900e-003</b>	<b>0.2346</b>		<b>1,102.9705</b>	<b>1,102.9705</b>	<b>0.0517</b>		<b>1,104.2620</b>

**Mitigated Construction On-Site**

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

**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	0.0476	1.5911	0.4745	4.0900e-003	0.1016	3.4400e-003	0.1051	0.0295	3.2900e-003	0.0328		445.7213	445.7213	0.0376		446.6609
Worker	0.2697	0.1584	1.8498	6.5900e-003	0.6800	4.7800e-003	0.6848	0.1815	4.4000e-003	0.1859		657.2493	657.2493	0.0141		657.6011
<b>Total</b>	<b>0.3173</b>	<b>1.7495</b>	<b>2.3243</b>	<b>0.0107</b>	<b>0.7816</b>	<b>8.2200e-003</b>	<b>0.7899</b>	<b>0.2110</b>	<b>7.6900e-003</b>	<b>0.2187</b>		<b>1,102.9705</b>	<b>1,102.9705</b>	<b>0.0517</b>		<b>1,104.2620</b>

### 3.6 Paving - 2021

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342		1,804.5523	1,804.5523	0.5670			1,818.7270
Paving	0.1793					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.2732</b>	<b>10.8399</b>	<b>12.2603</b>	<b>0.0189</b>		<b>0.5788</b>	<b>0.5788</b>		<b>0.5342</b>	<b>0.5342</b>		<b>1,804.5523</b>	<b>1,804.5523</b>	<b>0.5670</b>			<b>1,818.7270</b>

#### 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	5.6000e-003	0.1872	0.0558	4.8000e-004	0.0128	4.0000e-004	0.0132	3.6800e-003	3.9000e-004	4.0600e-003		52.4378	52.4378	4.4200e-003			52.5483
Worker	0.0817	0.0480	0.5605	2.0000e-003	0.2236	1.4500e-003	0.2250	0.0593	1.3300e-003	0.0606		199.1664	199.1664	4.2600e-003			199.2731
<b>Total</b>	<b>0.0873</b>	<b>0.2352</b>	<b>0.6164</b>	<b>2.4800e-003</b>	<b>0.2363</b>	<b>1.8500e-003</b>	<b>0.2382</b>	<b>0.0630</b>	<b>1.7200e-003</b>	<b>0.0647</b>		<b>251.6042</b>	<b>251.6042</b>	<b>8.6800e-003</b>			<b>251.8214</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342	0.0000	1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.1793					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.2732</b>	<b>10.8399</b>	<b>12.2603</b>	<b>0.0189</b>		<b>0.5788</b>	<b>0.5788</b>		<b>0.5342</b>	<b>0.5342</b>	<b>0.0000</b>	<b>1,804.5523</b>	<b>1,804.5523</b>	<b>0.5670</b>		<b>1,818.7270</b>

**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	5.6000e-003	0.1872	0.0558	4.8000e-004	0.0120	4.0000e-004	0.0124	3.4800e-003	3.9000e-004	3.8600e-003		52.4378	52.4378	4.4200e-003		52.5483
Worker	0.0817	0.0480	0.5605	2.0000e-003	0.2061	1.4500e-003	0.2075	0.0550	1.3300e-003	0.0563		199.1664	199.1664	4.2600e-003		199.2731
<b>Total</b>	<b>0.0873</b>	<b>0.2352</b>	<b>0.6164</b>	<b>2.4800e-003</b>	<b>0.2180</b>	<b>1.8500e-003</b>	<b>0.2199</b>	<b>0.0585</b>	<b>1.7200e-003</b>	<b>0.0602</b>		<b>251.6042</b>	<b>251.6042</b>	<b>8.6800e-003</b>		<b>251.8214</b>

### 3.7 Architectural Coating - 2021

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	39.8051					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
<b>Total</b>	<b>40.0240</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

#### 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	0.0531	0.0312	0.3644	1.3000e-003	0.1453	9.4000e-004	0.1463	0.0385	8.7000e-004	0.0394		129.4582	129.4582	2.7700e-003		129.5275
<b>Total</b>	<b>0.0531</b>	<b>0.0312</b>	<b>0.3644</b>	<b>1.3000e-003</b>	<b>0.1453</b>	<b>9.4000e-004</b>	<b>0.1463</b>	<b>0.0385</b>	<b>8.7000e-004</b>	<b>0.0394</b>		<b>129.4582</b>	<b>129.4582</b>	<b>2.7700e-003</b>		<b>129.5275</b>

**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	39.8051					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
<b>Total</b>	<b>40.0240</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

**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	0.0531	0.0312	0.3644	1.3000e-003	0.1339	9.4000e-004	0.1349	0.0358	8.7000e-004	0.0366		129.4582	129.4582	2.7700e-003		129.5275
<b>Total</b>	<b>0.0531</b>	<b>0.0312</b>	<b>0.3644</b>	<b>1.3000e-003</b>	<b>0.1339</b>	<b>9.4000e-004</b>	<b>0.1349</b>	<b>0.0358</b>	<b>8.7000e-004</b>	<b>0.0366</b>		<b>129.4582</b>	<b>129.4582</b>	<b>2.7700e-003</b>		<b>129.5275</b>



### 3.7 Architectural Coating - 2022

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	39.8051					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>40.0097</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

#### 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	0.0503	0.0283	0.3395	1.2500e-003	0.1453	9.2000e-004	0.1462	0.0385	8.5000e-004	0.0394		124.6672	124.6672	2.5200e-003		124.7301
<b>Total</b>	<b>0.0503</b>	<b>0.0283</b>	<b>0.3395</b>	<b>1.2500e-003</b>	<b>0.1453</b>	<b>9.2000e-004</b>	<b>0.1462</b>	<b>0.0385</b>	<b>8.5000e-004</b>	<b>0.0394</b>		<b>124.6672</b>	<b>124.6672</b>	<b>2.5200e-003</b>		<b>124.7301</b>

**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	39.8051					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>40.0097</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**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	0.0503	0.0283	0.3395	1.2500e-003	0.1339	9.2000e-004	0.1349	0.0358	8.5000e-004	0.0366		124.6672	124.6672	2.5200e-003		124.7301
<b>Total</b>	<b>0.0503</b>	<b>0.0283</b>	<b>0.3395</b>	<b>1.2500e-003</b>	<b>0.1339</b>	<b>9.2000e-004</b>	<b>0.1349</b>	<b>0.0358</b>	<b>8.5000e-004</b>	<b>0.0366</b>		<b>124.6672</b>	<b>124.6672</b>	<b>2.5200e-003</b>		<b>124.7301</b>

## 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	0.5994	0.8768	7.5480	0.0257	2.9721	0.0194	2.9915	0.7885	0.0179	0.8063		2,573.9576	2,573.9576	0.0784		2,575.9171
Unmitigated	0.5994	0.8768	7.5480	0.0257	2.9721	0.0194	2.9915	0.7885	0.0179	0.8063		2,573.9576	2,573.9576	0.0784		2,575.9171

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	439.06	472.12	364.24	1,304,439	1,304,439
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	439.06	472.12	364.24	1,304,439	1,304,439

### 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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	71	29	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.664531	0.051237	0.247964	0.020000	0.002418	0.000901	0.004017	0.002664	0.000000	0.000000	0.006268	0.000000	0.000000
Other Non-Asphalt Surfaces	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Parking Lot	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0240	0.2051	0.0873	1.3100e-003		0.0166	0.0166		0.0166	0.0166		261.8504	261.8504	5.0200e-003	4.8000e-003	263.4065
NaturalGas Unmitigated	0.0302	0.2584	0.1100	1.6500e-003		0.0209	0.0209		0.0209	0.0209		329.8780	329.8780	6.3200e-003	6.0500e-003	331.8383

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	2803.96	0.0302	0.2584	0.1100	1.6500e-003		0.0209	0.0209		0.0209	0.0209		329.8780	329.8780	6.3200e-003	6.0500e-003	331.8383
Other Non-Asphalt Surfaces	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
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
<b>Total</b>		<b>0.0302</b>	<b>0.2584</b>	<b>0.1100</b>	<b>1.6500e-003</b>		<b>0.0209</b>	<b>0.0209</b>		<b>0.0209</b>	<b>0.0209</b>		<b>329.8780</b>	<b>329.8780</b>	<b>6.3200e-003</b>	<b>6.0500e-003</b>	<b>331.8383</b>

**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					
Condo/Townhouse	2.22573	0.0240	0.2051	0.0873	1.3100e-003		0.0166	0.0166		0.0166	0.0166		261.8504	261.8504	5.0200e-003	4.8000e-003	263.4065
Other Non-Asphalt Surfaces	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
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
<b>Total</b>		<b>0.0240</b>	<b>0.2051</b>	<b>0.0873</b>	<b>1.3100e-003</b>		<b>0.0166</b>	<b>0.0166</b>		<b>0.0166</b>	<b>0.0166</b>		<b>261.8504</b>	<b>261.8504</b>	<b>5.0200e-003</b>	<b>4.8000e-003</b>	<b>263.4065</b>

**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	2.7161	0.0553	4.7993	2.5000e-004		0.0265	0.0265		0.0265	0.0265	0.0000	8.6355	8.6355	8.3600e-003	0.0000	8.8446
Unmitigated	2.7161	0.0553	4.7993	2.5000e-004		0.0265	0.0265		0.0265	0.0265	0.0000	8.6355	8.6355	8.3600e-003	0.0000	8.8446

**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	0.2072					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3634					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1455	0.0553	4.7993	2.5000e-004		0.0265	0.0265		0.0265	0.0265		8.6355	8.6355	8.3600e-003		8.8446
<b>Total</b>	<b>2.7161</b>	<b>0.0553</b>	<b>4.7993</b>	<b>2.5000e-004</b>		<b>0.0265</b>	<b>0.0265</b>		<b>0.0265</b>	<b>0.0265</b>	<b>0.0000</b>	<b>8.6355</b>	<b>8.6355</b>	<b>8.3600e-003</b>	<b>0.0000</b>	<b>8.8446</b>

### 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	0.2072					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3634					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1455	0.0553	4.7993	2.5000e-004		0.0265	0.0265		0.0265	0.0265		8.6355	8.6355	8.3600e-003		8.8446
<b>Total</b>	<b>2.7161</b>	<b>0.0553</b>	<b>4.7993</b>	<b>2.5000e-004</b>		<b>0.0265</b>	<b>0.0265</b>		<b>0.0265</b>	<b>0.0265</b>	<b>0.0000</b>	<b>8.6355</b>	<b>8.6355</b>	<b>8.3600e-003</b>	<b>0.0000</b>	<b>8.8446</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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### 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
----------------	--------	----------------	-----------------	---------------	-----------

### User Defined Equipment

Equipment Type	Number
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## 11.0 Vegetation

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Residences at Nohl Ranch Operation and Construction 2022 - Mitigation - Orange County, Annual

**Residences at Nohl Ranch Operation and Construction 2022 - Mitigation  
Orange County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	32.23	1000sqft	0.74	0.00	0
Parking Lot	56.61	1000sqft	1.30	56,610.00	0
Condo/Townhouse	58.00	Dwelling Unit	1.11	118,351.00	166

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	702.44	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**



Residences at Nohl Ranch Operation and Construction 2022 - Mitigation - Orange County, Annual

Project Characteristics -

Land Use - Refer to CalEEMod inputs.

Construction Phase - Based on a two year construction schedule.

Trips and VMT - Added concrete and water trucks.

Demolition -

Grading -

Vehicle Trips - Refer to CalEEMod inputs.

Woodstoves - No woodstoves or fireplaces.

Water And Wastewater - Refer to CalEEMod inputs.

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 and 1186

Energy Mitigation -

Water Mitigation -

Fleet Mix - Refer to CalEEMod inputs Fleet Mix.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

Residences at Nohl Ranch Operation and Construction 2022 - Mitigation - Orange County, Annual

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	20.00	39.00
tblConstructionPhase	NumDays	5.00	6.00
tblConstructionPhase	NumDays	8.00	12.00
tblConstructionPhase	NumDays	230.00	427.00
tblConstructionPhase	NumDays	18.00	19.00
tblConstructionPhase	NumDays	18.00	19.00
tblFireplaces	NumberGas	49.30	0.00
tblFireplaces	NumberNoFireplace	5.80	0.00
tblFireplaces	NumberWood	2.90	0.00
tblFleetMix	HHD	0.02	2.6640e-003
tblFleetMix	LDA	0.56	0.66
tblFleetMix	LDT1	0.04	0.05
tblFleetMix	LDT2	0.21	0.25

Residences at Nohl Ranch Operation and Construction 2022 - Mitigation - Orange County, Annual

tblFleetMix	LHD1	0.02	2.4180e-003
tblFleetMix	LHD2	5.7950e-003	9.0100e-004
tblFleetMix	MCY	4.9260e-003	6.2680e-003
tblFleetMix	MDV	0.11	0.02
tblFleetMix	MH	9.3400e-004	0.00
tblFleetMix	MHD	0.03	4.0170e-003
tblFleetMix	OBUS	1.7470e-003	0.00
tblFleetMix	SBUS	5.9400e-004	0.00
tblFleetMix	UBUS	1.5420e-003	0.00
tblLandUse	LandUseSquareFeet	32,230.00	0.00
tblLandUse	LandUseSquareFeet	58,000.00	118,351.00
tblLandUse	LotAcreage	3.63	1.11
tblTripsAndVMT	HaulingTripNumber	308.00	390.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	15.00	17.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleTrips	DV_TP	11.00	29.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	71.00
tblVehicleTrips	ST_TR	5.67	8.14
tblVehicleTrips	SU_TR	4.84	6.28
tblVehicleTrips	WD_TR	5.81	7.57
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	3,778,933.49	6,351,000.00
tblWater	OutdoorWaterUseRate	2,382,371.11	0.00
tblWater	SepticTankPercent	10.33	0.00

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tblWoodstoves	NumberCatalytic	2.90	0.00
tblWoodstoves	NumberNoncatalytic	2.90	0.00

**2.0 Emissions Summary**

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**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.3403	3.1282	2.5705	5.0900e-003	0.2190	0.1610	0.3800	0.0798	0.1508	0.2306	0.0000	450.3102	450.3102	0.0907	0.0000	452.5779
2021	0.5997	2.2801	2.2702	4.4900e-003	0.0970	0.1151	0.2121	0.0260	0.1082	0.1342	0.0000	395.7844	395.7844	0.0732	0.0000	397.6142
2022	0.0401	1.4400e-003	2.1600e-003	0.0000	1.4000e-004	8.0000e-005	2.3000e-004	4.0000e-005	8.0000e-005	1.2000e-004	0.0000	0.3702	0.3702	2.0000e-005	0.0000	0.3706
<b>Maximum</b>	<b>0.5997</b>	<b>3.1282</b>	<b>2.5705</b>	<b>5.0900e-003</b>	<b>0.2190</b>	<b>0.1610</b>	<b>0.3800</b>	<b>0.0798</b>	<b>0.1508</b>	<b>0.2306</b>	<b>0.0000</b>	<b>450.3102</b>	<b>450.3102</b>	<b>0.0907</b>	<b>0.0000</b>	<b>452.5779</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.1354	1.7134	2.7802	5.0900e-003	0.1394	0.0159	0.1553	0.0466	0.0158	0.0624	0.0000	450.3098	450.3098	0.0907	0.0000	452.5775
2021	0.4668	1.5024	2.4578	4.4900e-003	0.0896	0.0141	0.1036	0.0242	0.0140	0.0382	0.0000	395.7840	395.7840	0.0732	0.0000	397.6139
2022	0.0399	1.0900e-003	2.1800e-003	0.0000	1.3000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.3702	0.3702	2.0000e-005	0.0000	0.3706
<b>Maximum</b>	<b>0.4668</b>	<b>1.7134</b>	<b>2.7802</b>	<b>5.0900e-003</b>	<b>0.1394</b>	<b>0.0159</b>	<b>0.1553</b>	<b>0.0466</b>	<b>0.0158</b>	<b>0.0624</b>	<b>0.0000</b>	<b>450.3098</b>	<b>450.3098</b>	<b>0.0907</b>	<b>0.0000</b>	<b>452.5775</b>

## Residences at Nohl Ranch Operation and Construction 2022 - Mitigation - Orange County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	34.48	40.54	-8.21	0.00	27.52	89.15	56.26	33.11	88.49	72.42	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-6-2020	4-5-2020	1.1474	0.4838
2	4-6-2020	7-5-2020	0.7652	0.4515
3	7-6-2020	10-5-2020	0.7737	0.4566
4	10-6-2020	1-5-2021	0.7714	0.4576
5	1-6-2021	4-5-2021	0.6878	0.4377
6	4-6-2021	7-5-2021	0.6941	0.4412
7	7-6-2021	10-5-2021	0.7018	0.4461
8	10-6-2021	1-5-2022	0.8040	0.6649
		Highest	1.1474	0.6649

Residences at Nohl Ranch Operation and Construction 2022 - Mitigation - Orange County, Annual

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4873	6.9200e-003	0.5999	3.0000e-005		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	0.9793	0.9793	9.5000e-004	0.0000	1.0030
Energy	5.5200e-003	0.0472	0.0201	3.0000e-004		3.8100e-003	3.8100e-003		3.8100e-003	3.8100e-003	0.0000	152.7465	152.7465	5.1000e-003	1.8400e-003	153.4221
Mobile	0.0969	0.1493	1.2806	4.3600e-003	0.4874	3.2300e-003	0.4906	0.1295	2.9800e-003	0.1324	0.0000	395.1718	395.1718	0.0119	0.0000	395.4697
Waste						0.0000	0.0000		0.0000	0.0000	5.4158	0.0000	5.4158	0.3201	0.0000	13.4174
Water						0.0000	0.0000		0.0000	0.0000	2.2470	26.3488	28.5958	8.8200e-003	5.1100e-003	30.3396
<b>Total</b>	<b>0.5897</b>	<b>0.2034</b>	<b>1.9006</b>	<b>4.6900e-003</b>	<b>0.4874</b>	<b>0.0104</b>	<b>0.4977</b>	<b>0.1295</b>	<b>0.0101</b>	<b>0.1396</b>	<b>7.6628</b>	<b>575.2464</b>	<b>582.9091</b>	<b>0.3468</b>	<b>6.9500e-003</b>	<b>593.6517</b>

Residences at Nohl Ranch Operation and Construction 2022 - Mitigation - Orange County, Annual

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4873	6.9200e-003	0.5999	3.0000e-005		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	0.9793	0.9793	9.5000e-004	0.0000	1.0030
Energy	4.3800e-003	0.0374	0.0159	2.4000e-004		3.0300e-003	3.0300e-003		3.0300e-003	3.0300e-003	0.0000	140.5279	140.5279	4.8400e-003	1.6200e-003	141.1332
Mobile	0.0969	0.1493	1.2806	4.3600e-003	0.4874	3.2300e-003	0.4906	0.1295	2.9800e-003	0.1324	0.0000	395.1718	395.1718	0.0119	0.0000	395.4697
Waste						0.0000	0.0000		0.0000	0.0000	5.4158	0.0000	5.4158	0.3201	0.0000	13.4174
Water						0.0000	0.0000		0.0000	0.0000	1.7976	21.0791	22.8767	7.0600e-003	4.0900e-003	24.2717
<b>Total</b>	<b>0.5886</b>	<b>0.1937</b>	<b>1.8965</b>	<b>4.6300e-003</b>	<b>0.4874</b>	<b>9.5700e-003</b>	<b>0.4969</b>	<b>0.1295</b>	<b>9.3200e-003</b>	<b>0.1388</b>	<b>7.2134</b>	<b>557.7580</b>	<b>564.9714</b>	<b>0.3448</b>	<b>5.7100e-003</b>	<b>575.2949</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.19</b>	<b>4.78</b>	<b>0.22</b>	<b>1.28</b>	<b>0.00</b>	<b>7.54</b>	<b>0.16</b>	<b>0.00</b>	<b>7.72</b>	<b>0.56</b>	<b>5.86</b>	<b>3.04</b>	<b>3.08</b>	<b>0.58</b>	<b>17.84</b>	<b>3.09</b>

**3.0 Construction Detail**

**Construction Phase**



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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Asphalt and Building Demolition	Demolition	1/6/2020	2/27/2020	5	39	
2	Site Preparation	Site Preparation	2/28/2020	3/6/2020	5	6	
3	Grading	Grading	3/9/2020	3/24/2020	5	12	
4	Building Construction	Building Construction	3/25/2020	11/11/2021	5	427	
5	Paving	Paving	11/12/2021	12/8/2021	5	19	
6	Architectural Coating	Architectural Coating	12/9/2021	1/4/2022	5	19	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 6**

**Acres of Paving: 2.04**

**Residential Indoor: 239,661; Residential Outdoor: 79,887; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 3,397 (Architectural Coating – sqft)**

**OffRoad Equipment**

## Residences at Nohl Ranch Operation and Construction 2022 - Mitigation - Orange County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Asphalt and Building Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Asphalt and Building Demolition	Excavators	3	8.00	158	0.38
Asphalt and Building Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

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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
Asphalt and Building Demolition	6	15.00	0.00	390.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	66.00	17.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Use Cleaner Engines for Construction Equipment
- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

**3.2 Asphalt and Building Demolition - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0333	0.0000	0.0333	5.0400e-003	0.0000	5.0400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0646	0.6474	0.4242	7.6000e-004		0.0323	0.0323		0.0301	0.0301	0.0000	66.2973	66.2973	0.0187	0.0000	66.7652
<b>Total</b>	<b>0.0646</b>	<b>0.6474</b>	<b>0.4242</b>	<b>7.6000e-004</b>	<b>0.0333</b>	<b>0.0323</b>	<b>0.0656</b>	<b>5.0400e-003</b>	<b>0.0301</b>	<b>0.0351</b>	<b>0.0000</b>	<b>66.2973</b>	<b>66.2973</b>	<b>0.0187</b>	<b>0.0000</b>	<b>66.7652</b>

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**3.2 Asphalt and Building Demolition - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4900e-003	0.0553	0.0139	1.5000e-004	3.3400e-003	1.7000e-004	3.5200e-003	9.2000e-004	1.7000e-004	1.0800e-003	0.0000	14.9950	14.9950	1.5800e-003	0.0000	15.0345
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1400e-003	8.0000e-004	9.0700e-003	3.0000e-005	3.2100e-003	2.0000e-005	3.2300e-003	8.5000e-004	2.0000e-005	8.7000e-004	0.0000	2.7792	2.7792	6.0000e-005	0.0000	2.7808
<b>Total</b>	<b>2.6300e-003</b>	<b>0.0561</b>	<b>0.0229</b>	<b>1.8000e-004</b>	<b>6.5500e-003</b>	<b>1.9000e-004</b>	<b>6.7500e-003</b>	<b>1.7700e-003</b>	<b>1.9000e-004</b>	<b>1.9500e-003</b>	<b>0.0000</b>	<b>17.7742</b>	<b>17.7742</b>	<b>1.6400e-003</b>	<b>0.0000</b>	<b>17.8153</b>

**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					0.0142	0.0000	0.0142	2.1500e-003	0.0000	2.1500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0114	0.2644	0.4811	7.6000e-004		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003	0.0000	66.2972	66.2972	0.0187	0.0000	66.7651
<b>Total</b>	<b>0.0114</b>	<b>0.2644</b>	<b>0.4811</b>	<b>7.6000e-004</b>	<b>0.0142</b>	<b>1.2000e-003</b>	<b>0.0154</b>	<b>2.1500e-003</b>	<b>1.2000e-003</b>	<b>3.3500e-003</b>	<b>0.0000</b>	<b>66.2972</b>	<b>66.2972</b>	<b>0.0187</b>	<b>0.0000</b>	<b>66.7651</b>

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**3.2 Asphalt and Building Demolition - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4900e-003	0.0553	0.0139	1.5000e-004	3.1200e-003	1.7000e-004	3.2900e-003	8.6000e-004	1.7000e-004	1.0300e-003	0.0000	14.9950	14.9950	1.5800e-003	0.0000	15.0345
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1400e-003	8.0000e-004	9.0700e-003	3.0000e-005	2.9600e-003	2.0000e-005	2.9800e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.7792	2.7792	6.0000e-005	0.0000	2.7808
<b>Total</b>	<b>2.6300e-003</b>	<b>0.0561</b>	<b>0.0229</b>	<b>1.8000e-004</b>	<b>6.0800e-003</b>	<b>1.9000e-004</b>	<b>6.2700e-003</b>	<b>1.6500e-003</b>	<b>1.9000e-004</b>	<b>1.8400e-003</b>	<b>0.0000</b>	<b>17.7742</b>	<b>17.7742</b>	<b>1.6400e-003</b>	<b>0.0000</b>	<b>17.8153</b>

**3.3 Site Preparation - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0542	0.0000	0.0542	0.0298	0.0000	0.0298	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0122	0.1273	0.0645	1.1000e-004		6.5900e-003	6.5900e-003		6.0600e-003	6.0600e-003	0.0000	10.0292	10.0292	3.2400e-003	0.0000	10.1103
<b>Total</b>	<b>0.0122</b>	<b>0.1273</b>	<b>0.0645</b>	<b>1.1000e-004</b>	<b>0.0542</b>	<b>6.5900e-003</b>	<b>0.0608</b>	<b>0.0298</b>	<b>6.0600e-003</b>	<b>0.0359</b>	<b>0.0000</b>	<b>10.0292</b>	<b>10.0292</b>	<b>3.2400e-003</b>	<b>0.0000</b>	<b>10.1103</b>

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**3.3 Site Preparation - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	6.4000e-004	1.7000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1461	0.1461	1.0000e-005	0.0000	0.1464
Worker	2.1000e-004	1.5000e-004	1.6700e-003	1.0000e-005	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5131	0.5131	1.0000e-005	0.0000	0.5134
<b>Total</b>	<b>2.3000e-004</b>	<b>7.9000e-004</b>	<b>1.8400e-003</b>	<b>1.0000e-005</b>	<b>6.3000e-004</b>	<b>0.0000</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>0.6592</b>	<b>0.6592</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.6597</b>

**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					0.0232	0.0000	0.0232	0.0127	0.0000	0.0127	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0900e-003	0.0365	0.0689	1.1000e-004		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	10.0292	10.0292	3.2400e-003	0.0000	10.1103
<b>Total</b>	<b>2.0900e-003</b>	<b>0.0365</b>	<b>0.0689</b>	<b>1.1000e-004</b>	<b>0.0232</b>	<b>1.9000e-004</b>	<b>0.0234</b>	<b>0.0127</b>	<b>1.9000e-004</b>	<b>0.0129</b>	<b>0.0000</b>	<b>10.0292</b>	<b>10.0292</b>	<b>3.2400e-003</b>	<b>0.0000</b>	<b>10.1103</b>

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**3.3 Site Preparation - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0000e-005	6.4000e-004	1.7000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1461	0.1461	1.0000e-005	0.0000	0.1464
Worker	2.1000e-004	1.5000e-004	1.6700e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5131	0.5131	1.0000e-005	0.0000	0.5134
<b>Total</b>	<b>2.3000e-004</b>	<b>7.9000e-004</b>	<b>1.8400e-003</b>	<b>1.0000e-005</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>5.9000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.6592</b>	<b>0.6592</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.6597</b>

**3.4 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0393	0.0000	0.0393	0.0202	0.0000	0.0202	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0146	0.1583	0.0963	1.8000e-004		7.6400e-003	7.6400e-003		7.0300e-003	7.0300e-003	0.0000	15.6353	15.6353	5.0600e-003	0.0000	15.7617
<b>Total</b>	<b>0.0146</b>	<b>0.1583</b>	<b>0.0963</b>	<b>1.8000e-004</b>	<b>0.0393</b>	<b>7.6400e-003</b>	<b>0.0470</b>	<b>0.0202</b>	<b>7.0300e-003</b>	<b>0.0272</b>	<b>0.0000</b>	<b>15.6353</b>	<b>15.6353</b>	<b>5.0600e-003</b>	<b>0.0000</b>	<b>15.7617</b>

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**3.4 Grading - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	2.5000e-004	2.7900e-003	1.0000e-005	9.9000e-004	1.0000e-005	9.9000e-004	2.6000e-004	1.0000e-005	2.7000e-004	0.0000	0.8551	0.8551	2.0000e-005	0.0000	0.8556
<b>Total</b>	<b>3.5000e-004</b>	<b>2.5000e-004</b>	<b>2.7900e-003</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>1.0000e-005</b>	<b>9.9000e-004</b>	<b>2.6000e-004</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>0.8551</b>	<b>0.8551</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.8556</b>

**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					0.0168	0.0000	0.0168	8.6400e-003	0.0000	8.6400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1200e-003	0.0620	0.1139	1.8000e-004		2.9000e-004	2.9000e-004		2.9000e-004	2.9000e-004	0.0000	15.6352	15.6352	5.0600e-003	0.0000	15.7617
<b>Total</b>	<b>3.1200e-003</b>	<b>0.0620</b>	<b>0.1139</b>	<b>1.8000e-004</b>	<b>0.0168</b>	<b>2.9000e-004</b>	<b>0.0171</b>	<b>8.6400e-003</b>	<b>2.9000e-004</b>	<b>8.9300e-003</b>	<b>0.0000</b>	<b>15.6352</b>	<b>15.6352</b>	<b>5.0600e-003</b>	<b>0.0000</b>	<b>15.7617</b>



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**3.4 Grading - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	2.5000e-004	2.7900e-003	1.0000e-005	9.1000e-004	1.0000e-005	9.2000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.8551	0.8551	2.0000e-005	0.0000	0.8556
<b>Total</b>	<b>3.5000e-004</b>	<b>2.5000e-004</b>	<b>2.7900e-003</b>	<b>1.0000e-005</b>	<b>9.1000e-004</b>	<b>1.0000e-005</b>	<b>9.2000e-004</b>	<b>2.4000e-004</b>	<b>1.0000e-005</b>	<b>2.5000e-004</b>	<b>0.0000</b>	<b>0.8551</b>	<b>0.8551</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.8556</b>

**3.5 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2141	1.9378	1.7017	2.7200e-003		0.1128	0.1128		0.1061	0.1061	0.0000	233.9261	233.9261	0.0571	0.0000	235.3528
<b>Total</b>	<b>0.2141</b>	<b>1.9378</b>	<b>1.7017</b>	<b>2.7200e-003</b>		<b>0.1128</b>	<b>0.1128</b>		<b>0.1061</b>	<b>0.1061</b>	<b>0.0000</b>	<b>233.9261</b>	<b>233.9261</b>	<b>0.0571</b>	<b>0.0000</b>	<b>235.3528</b>

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**3.5 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.5900e-003	0.1821	0.0495	4.2000e-004	0.0108	9.4000e-004	0.0118	3.1200e-003	9.0000e-004	4.0200e-003	0.0000	41.7961	41.7961	3.4900e-003	0.0000	41.8834
Worker	0.0260	0.0182	0.2066	7.0000e-004	0.0732	4.9000e-004	0.0737	0.0194	4.5000e-004	0.0199	0.0000	63.3377	63.3377	1.4500e-003	0.0000	63.3738
<b>Total</b>	<b>0.0316</b>	<b>0.2003</b>	<b>0.2562</b>	<b>1.1200e-003</b>	<b>0.0840</b>	<b>1.4300e-003</b>	<b>0.0854</b>	<b>0.0226</b>	<b>1.3500e-003</b>	<b>0.0239</b>	<b>0.0000</b>	<b>105.1338</b>	<b>105.1338</b>	<b>4.9400e-003</b>	<b>0.0000</b>	<b>105.2573</b>

**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	0.0840	1.0931	1.8325	2.7200e-003		0.0126	0.0126		0.0126	0.0126	0.0000	233.9258	233.9258	0.0571	0.0000	235.3526
<b>Total</b>	<b>0.0840</b>	<b>1.0931</b>	<b>1.8325</b>	<b>2.7200e-003</b>		<b>0.0126</b>	<b>0.0126</b>		<b>0.0126</b>	<b>0.0126</b>	<b>0.0000</b>	<b>233.9258</b>	<b>233.9258</b>	<b>0.0571</b>	<b>0.0000</b>	<b>235.3526</b>

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**3.5 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.5900e-003	0.1821	0.0495	4.2000e-004	0.0101	9.4000e-004	0.0111	2.9500e-003	9.0000e-004	3.8500e-003	0.0000	41.7961	41.7961	3.4900e-003	0.0000	41.8834
Worker	0.0260	0.0182	0.2066	7.0000e-004	0.0675	4.9000e-004	0.0680	0.0180	4.5000e-004	0.0185	0.0000	63.3377	63.3377	1.4500e-003	0.0000	63.3738
<b>Total</b>	<b>0.0316</b>	<b>0.2003</b>	<b>0.2562</b>	<b>1.1200e-003</b>	<b>0.0776</b>	<b>1.4300e-003</b>	<b>0.0790</b>	<b>0.0210</b>	<b>1.3500e-003</b>	<b>0.0223</b>	<b>0.0000</b>	<b>105.1338</b>	<b>105.1338</b>	<b>4.9400e-003</b>	<b>0.0000</b>	<b>105.2573</b>

**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	0.2139	1.9611	1.8647	3.0300e-003		0.1078	0.1078		0.1014	0.1014	0.0000	260.5919	260.5919	0.0629	0.0000	262.1637
<b>Total</b>	<b>0.2139</b>	<b>1.9611</b>	<b>1.8647</b>	<b>3.0300e-003</b>		<b>0.1078</b>	<b>0.1078</b>		<b>0.1014</b>	<b>0.1014</b>	<b>0.0000</b>	<b>260.5919</b>	<b>260.5919</b>	<b>0.0629</b>	<b>0.0000</b>	<b>262.1637</b>

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**3.5 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.2200e-003	0.1822	0.0511	4.7000e-004	0.0120	3.8000e-004	0.0124	3.4700e-003	3.6000e-004	3.8300e-003	0.0000	46.1541	46.1541	3.7400e-003	0.0000	46.2475
Worker	0.0272	0.0183	0.2133	7.5000e-004	0.0815	5.4000e-004	0.0821	0.0217	4.9000e-004	0.0221	0.0000	68.1013	68.1013	1.4600e-003	0.0000	68.1378
<b>Total</b>	<b>0.0324</b>	<b>0.2005</b>	<b>0.2644</b>	<b>1.2200e-003</b>	<b>0.0936</b>	<b>9.2000e-004</b>	<b>0.0945</b>	<b>0.0251</b>	<b>8.5000e-004</b>	<b>0.0260</b>	<b>0.0000</b>	<b>114.2554</b>	<b>114.2554</b>	<b>5.2000e-003</b>	<b>0.0000</b>	<b>114.3853</b>

**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	0.0891	1.2105	2.0358	3.0300e-003		0.0126	0.0126		0.0126	0.0126	0.0000	260.5916	260.5916	0.0629	0.0000	262.1634
<b>Total</b>	<b>0.0891</b>	<b>1.2105</b>	<b>2.0358</b>	<b>3.0300e-003</b>		<b>0.0126</b>	<b>0.0126</b>		<b>0.0126</b>	<b>0.0126</b>	<b>0.0000</b>	<b>260.5916</b>	<b>260.5916</b>	<b>0.0629</b>	<b>0.0000</b>	<b>262.1634</b>

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**3.5 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.2200e-003	0.1822	0.0511	4.7000e-004	0.0113	3.8000e-004	0.0117	3.2800e-003	3.6000e-004	3.6500e-003	0.0000	46.1541	46.1541	3.7400e-003	0.0000	46.2475
Worker	0.0272	0.0183	0.2133	7.5000e-004	0.0752	5.4000e-004	0.0757	0.0201	4.9000e-004	0.0206	0.0000	68.1013	68.1013	1.4600e-003	0.0000	68.1378
<b>Total</b>	<b>0.0324</b>	<b>0.2005</b>	<b>0.2644</b>	<b>1.2200e-003</b>	<b>0.0864</b>	<b>9.2000e-004</b>	<b>0.0873</b>	<b>0.0234</b>	<b>8.5000e-004</b>	<b>0.0242</b>	<b>0.0000</b>	<b>114.2554</b>	<b>114.2554</b>	<b>5.2000e-003</b>	<b>0.0000</b>	<b>114.3853</b>

**3.6 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0104	0.1030	0.1165	1.8000e-004		5.5000e-003	5.5000e-003		5.0800e-003	5.0800e-003	0.0000	15.5521	15.5521	4.8900e-003	0.0000	15.6743
Paving	1.7000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0121</b>	<b>0.1030</b>	<b>0.1165</b>	<b>1.8000e-004</b>		<b>5.5000e-003</b>	<b>5.5000e-003</b>		<b>5.0800e-003</b>	<b>5.0800e-003</b>	<b>0.0000</b>	<b>15.5521</b>	<b>15.5521</b>	<b>4.8900e-003</b>	<b>0.0000</b>	<b>15.6743</b>

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**3.6 Paving - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.8100e-003	5.1000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.4585	0.4585	4.0000e-005	0.0000	0.4595
Worker	7.0000e-004	4.7000e-004	5.4600e-003	2.0000e-005	2.0900e-003	1.0000e-005	2.1000e-003	5.5000e-004	1.0000e-005	5.7000e-004	0.0000	1.7427	1.7427	4.0000e-005	0.0000	1.7436
<b>Total</b>	<b>7.5000e-004</b>	<b>2.2800e-003</b>	<b>5.9700e-003</b>	<b>2.0000e-005</b>	<b>2.2100e-003</b>	<b>1.0000e-005</b>	<b>2.2200e-003</b>	<b>5.8000e-004</b>	<b>1.0000e-005</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>2.2012</b>	<b>2.2012</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.2030</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.6000e-003	0.0798	0.1330	1.8000e-004		4.8000e-004	4.8000e-004		4.8000e-004	4.8000e-004	0.0000	15.5521	15.5521	4.8900e-003	0.0000	15.6742
Paving	1.7000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.3000e-003</b>	<b>0.0798</b>	<b>0.1330</b>	<b>1.8000e-004</b>		<b>4.8000e-004</b>	<b>4.8000e-004</b>		<b>4.8000e-004</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>15.5521</b>	<b>15.5521</b>	<b>4.8900e-003</b>	<b>0.0000</b>	<b>15.6742</b>

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**3.6 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.0000e-005	1.8100e-003	5.1000e-004	0.0000	1.1000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.4585	0.4585	4.0000e-005	0.0000	0.4595
Worker	7.0000e-004	4.7000e-004	5.4600e-003	2.0000e-005	1.9200e-003	1.0000e-005	1.9400e-003	5.1000e-004	1.0000e-005	5.3000e-004	0.0000	1.7427	1.7427	4.0000e-005	0.0000	1.7436
<b>Total</b>	<b>7.5000e-004</b>	<b>2.2800e-003</b>	<b>5.9700e-003</b>	<b>2.0000e-005</b>	<b>2.0300e-003</b>	<b>1.0000e-005</b>	<b>2.0600e-003</b>	<b>5.4000e-004</b>	<b>1.0000e-005</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>2.2012</b>	<b>2.2012</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.2030</b>

**3.7 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3383					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8600e-003	0.0130	0.0155	3.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004	0.0000	2.1703	2.1703	1.5000e-004	0.0000	2.1740
<b>Total</b>	<b>0.3402</b>	<b>0.0130</b>	<b>0.0155</b>	<b>3.0000e-005</b>		<b>8.0000e-004</b>	<b>8.0000e-004</b>		<b>8.0000e-004</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>2.1740</b>

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**3.7 Architectural Coating - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.7000e-004	3.1700e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.0135	1.0135	2.0000e-005	0.0000	1.0140
<b>Total</b>	<b>4.0000e-004</b>	<b>2.7000e-004</b>	<b>3.1700e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>1.0000e-005</b>	<b>1.2200e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>1.0135</b>	<b>1.0135</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.0140</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3383					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6000e-004	9.0100e-003	0.0156	3.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	2.1703	2.1703	1.5000e-004	0.0000	2.1740
<b>Total</b>	<b>0.3388</b>	<b>9.0100e-003</b>	<b>0.0156</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>2.1703</b>	<b>2.1703</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>2.1740</b>



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**3.7 Architectural Coating - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.7000e-004	3.1700e-003	1.0000e-005	1.1200e-003	1.0000e-005	1.1300e-003	3.0000e-004	1.0000e-005	3.1000e-004	0.0000	1.0135	1.0135	2.0000e-005	0.0000	1.0140
<b>Total</b>	<b>4.0000e-004</b>	<b>2.7000e-004</b>	<b>3.1700e-003</b>	<b>1.0000e-005</b>	<b>1.1200e-003</b>	<b>1.0000e-005</b>	<b>1.1300e-003</b>	<b>3.0000e-004</b>	<b>1.0000e-005</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>1.0135</b>	<b>1.0135</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>1.0140</b>

**3.7 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0398					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0000e-004	1.4100e-003	1.8100e-003	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
<b>Total</b>	<b>0.0400</b>	<b>1.4100e-003</b>	<b>1.8100e-003</b>	<b>0.0000</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>		<b>8.0000e-005</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.2553</b>	<b>0.2553</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.2557</b>

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**3.7 Architectural Coating - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	3.0000e-005	3.5000e-004	0.0000	1.4000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1148	0.1148	0.0000	0.0000	0.1149
<b>Total</b>	<b>5.0000e-005</b>	<b>3.0000e-005</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.4000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1148</b>	<b>0.1148</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1149</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0398					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0000e-005	1.0600e-003	1.8300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2557
<b>Total</b>	<b>0.0399</b>	<b>1.0600e-003</b>	<b>1.8300e-003</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.2553</b>	<b>0.2553</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.2557</b>

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**3.7 Architectural Coating - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	3.0000e-005	3.5000e-004	0.0000	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1148	0.1148	0.0000	0.0000	0.1149
<b>Total</b>	<b>5.0000e-005</b>	<b>3.0000e-005</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1148</b>	<b>0.1148</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1149</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0969	0.1493	1.2806	4.3600e-003	0.4874	3.2300e-003	0.4906	0.1295	2.9800e-003	0.1324	0.0000	395.1718	395.1718	0.0119	0.0000	395.4697
Unmitigated	0.0969	0.1493	1.2806	4.3600e-003	0.4874	3.2300e-003	0.4906	0.1295	2.9800e-003	0.1324	0.0000	395.1718	395.1718	0.0119	0.0000	395.4697

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	439.06	472.12	364.24	1,304,439	1,304,439
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	439.06	472.12	364.24	1,304,439	1,304,439

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
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	71	29	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.664531	0.051237	0.247964	0.020000	0.002418	0.000901	0.004017	0.002664	0.000000	0.000000	0.006268	0.000000	0.000000
Other Non-Asphalt Surfaces	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Parking Lot	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	97.1756	97.1756	4.0100e-003	8.3000e-004	97.5233
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	98.1315	98.1315	4.0500e-003	8.4000e-004	98.4825
NaturalGas Mitigated	4.3800e-003	0.0374	0.0159	2.4000e-004		3.0300e-003	3.0300e-003		3.0300e-003	3.0300e-003	0.0000	43.3523	43.3523	8.3000e-004	7.9000e-004	43.6099
NaturalGas Unmitigated	5.5200e-003	0.0472	0.0201	3.0000e-004		3.8100e-003	3.8100e-003		3.8100e-003	3.8100e-003	0.0000	54.6150	54.6150	1.0500e-003	1.0000e-003	54.9396

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse	1.02345e+006	5.5200e-003	0.0472	0.0201	3.0000e-004		3.8100e-003	3.8100e-003		3.8100e-003	3.8100e-003	0.0000	54.6150	54.6150	1.0500e-003	1.0000e-003	54.9396
Other Non-Asphalt Surfaces	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
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
<b>Total</b>		<b>5.5200e-003</b>	<b>0.0472</b>	<b>0.0201</b>	<b>3.0000e-004</b>		<b>3.8100e-003</b>	<b>3.8100e-003</b>		<b>3.8100e-003</b>	<b>3.8100e-003</b>	<b>0.0000</b>	<b>54.6150</b>	<b>54.6150</b>	<b>1.0500e-003</b>	<b>1.0000e-003</b>	<b>54.9396</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse	812391	4.3800e-003	0.0374	0.0159	2.4000e-004		3.0300e-003	3.0300e-003		3.0300e-003	3.0300e-003	0.0000	43.3523	43.3523	8.3000e-004	7.9000e-004	43.6099
Other Non-Asphalt Surfaces	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
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
<b>Total</b>		<b>4.3800e-003</b>	<b>0.0374</b>	<b>0.0159</b>	<b>2.4000e-004</b>		<b>3.0300e-003</b>	<b>3.0300e-003</b>		<b>3.0300e-003</b>	<b>3.0300e-003</b>	<b>0.0000</b>	<b>43.3523</b>	<b>43.3523</b>	<b>8.3000e-004</b>	<b>7.9000e-004</b>	<b>43.6099</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	288174	91.8185	3.7900e-003	7.8000e-004	92.1469
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	19813.5	6.3130	2.6000e-004	5.0000e-005	6.3356
<b>Total</b>		<b>98.1315</b>	<b>4.0500e-003</b>	<b>8.3000e-004</b>	<b>98.4825</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	285174	90.8626	3.7500e-003	7.8000e-004	91.1877
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	19813.5	6.3130	2.6000e-004	5.0000e-005	6.3356
<b>Total</b>		<b>97.1756</b>	<b>4.0100e-003</b>	<b>8.3000e-004</b>	<b>97.5233</b>

**6.0 Area Detail**

Residences at Nohl Ranch Operation and Construction 2022 - Mitigation - Orange County, Annual

**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	0.4873	6.9200e-003	0.5999	3.0000e-005		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	0.9793	0.9793	9.5000e-004	0.0000	1.0030
Unmitigated	0.4873	6.9200e-003	0.5999	3.0000e-005		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	0.9793	0.9793	9.5000e-004	0.0000	1.0030



Residences at Nohl Ranch Operation and Construction 2022 - Mitigation - Orange County, Annual

**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	0.0378					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4313					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0182	6.9200e-003	0.5999	3.0000e-005		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	0.9793	0.9793	9.5000e-004	0.0000	1.0030
<b>Total</b>	<b>0.4873</b>	<b>6.9200e-003</b>	<b>0.5999</b>	<b>3.0000e-005</b>		<b>3.3100e-003</b>	<b>3.3100e-003</b>		<b>3.3100e-003</b>	<b>3.3100e-003</b>	<b>0.0000</b>	<b>0.9793</b>	<b>0.9793</b>	<b>9.5000e-004</b>	<b>0.0000</b>	<b>1.0030</b>

Residences at Nohl Ranch Operation and Construction 2022 - Mitigation - Orange County, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0378					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4313					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0182	6.9200e-003	0.5999	3.0000e-005		3.3100e-003	3.3100e-003		3.3100e-003	3.3100e-003	0.0000	0.9793	0.9793	9.5000e-004	0.0000	1.0030
<b>Total</b>	<b>0.4873</b>	<b>6.9200e-003</b>	<b>0.5999</b>	<b>3.0000e-005</b>		<b>3.3100e-003</b>	<b>3.3100e-003</b>		<b>3.3100e-003</b>	<b>3.3100e-003</b>	<b>0.0000</b>	<b>0.9793</b>	<b>0.9793</b>	<b>9.5000e-004</b>	<b>0.0000</b>	<b>1.0030</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

Residences at Nohl Ranch Operation and Construction 2022 - Mitigation - Orange County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	22.8767	7.0600e-003	4.0900e-003	24.2717
Unmitigated	28.5958	8.8200e-003	5.1100e-003	30.3396

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	6.351 / 0	28.5958	8.8200e-003	5.1100e-003	30.3396
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>28.5958</b>	<b>8.8200e-003</b>	<b>5.1100e-003</b>	<b>30.3396</b>

## Residences at Nohl Ranch Operation and Construction 2022 - Mitigation - Orange County, Annual

**7.2 Water by Land Use****Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	5.0808 / 0	22.8767	7.0600e-003	4.0900e-003	24.2717
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>22.8767</b>	<b>7.0600e-003</b>	<b>4.0900e-003</b>	<b>24.2717</b>

**8.0 Waste Detail****8.1 Mitigation Measures Waste**

Residences at Nohl Ranch Operation and Construction 2022 - Mitigation - Orange County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	5.4158	0.3201	0.0000	13.4174
Unmitigated	5.4158	0.3201	0.0000	13.4174

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	26.68	5.4158	0.3201	0.0000	13.4174
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>5.4158</b>	<b>0.3201</b>	<b>0.0000</b>	<b>13.4174</b>

Residences at Nohl Ranch Operation and Construction 2022 - Mitigation - Orange County, Annual

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	26.68	5.4158	0.3201	0.0000	13.4174
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>5.4158</b>	<b>0.3201</b>	<b>0.0000</b>	<b>13.4174</b>

**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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Residences at Nohl Ranch Operation and Construction 2022 - Mitigation - Orange County, Annual

**11.0 Vegetation**

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Residences at Nohl Ranch Operation and Construction 2022 - Mitigation - Orange County, Summer

**Residences at Nohl Ranch Operation and Construction 2022 - Mitigation  
Orange County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	32.23	1000sqft	0.74	0.00	0
Parking Lot	56.61	1000sqft	1.30	56,610.00	0
Condo/Townhouse	58.00	Dwelling Unit	1.11	118,351.00	166

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Refer to CalEEMod inputs.

Construction Phase - Based on a two year construction schedule.

Trips and VMT - Added concrete and water trucks.

Demolition -

Grading -

Vehicle Trips - Refer to CalEEMod inputs.



Woodstoves - No woodstoves or fireplaces.

Water And Wastewater - Refer to CalEEMod inputs.

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 and 1186

Energy Mitigation -

Water Mitigation -

Fleet Mix - Refer to CalEEMod inputs Fleet Mix.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	20.00	39.00
tblConstructionPhase	NumDays	5.00	6.00
tblConstructionPhase	NumDays	8.00	12.00
tblConstructionPhase	NumDays	230.00	427.00
tblConstructionPhase	NumDays	18.00	19.00
tblConstructionPhase	NumDays	18.00	19.00
tblFireplaces	NumberGas	49.30	0.00
tblFireplaces	NumberNoFireplace	5.80	0.00
tblFireplaces	NumberWood	2.90	0.00
tblFleetMix	HHD	0.02	2.6640e-003
tblFleetMix	LDA	0.56	0.66
tblFleetMix	LDT1	0.04	0.05
tblFleetMix	LDT2	0.21	0.25
tblFleetMix	LHD1	0.02	2.4180e-003
tblFleetMix	LHD2	5.7950e-003	9.0100e-004
tblFleetMix	MCY	4.9260e-003	6.2680e-003
tblFleetMix	MDV	0.11	0.02
tblFleetMix	MH	9.3400e-004	0.00
tblFleetMix	MHD	0.03	4.0170e-003
tblFleetMix	OBUS	1.7470e-003	0.00
tblFleetMix	SBUS	5.9400e-004	0.00
tblFleetMix	UBUS	1.5420e-003	0.00
tblLandUse	LandUseSquareFeet	32,230.00	0.00
tblLandUse	LandUseSquareFeet	58,000.00	118,351.00
tblLandUse	LotAcreage	3.63	1.11
tblTripsAndVMT	HaulingTripNumber	308.00	390.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

tblTripsAndVMT	VendorTripNumber	15.00	17.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleTrips	DV_TP	11.00	29.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	71.00
tblVehicleTrips	ST_TR	5.67	8.14
tblVehicleTrips	SU_TR	4.84	6.28
tblVehicleTrips	WD_TR	5.81	7.57
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	3,778,933.49	6,351,000.00
tblWater	OutdoorWaterUseRate	2,382,371.11	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	2.90	0.00
tblWoodstoves	NumberNoncatalytic	2.90	0.00

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.1520	42.6693	22.9390	0.0481	18.2802	2.1998	20.4801	9.9877	2.0239	12.0116	0.0000	4,764.2694	4,764.2694	1.2007	0.0000	4,793.0219
2021	40.0710	19.1711	19.0123	0.0381	0.8463	0.9667	1.8131	0.2269	0.9088	1.1357	0.0000	3,704.7593	3,704.7593	0.6667	0.0000	3,721.4272
2022	40.0540	1.4342	2.1821	4.2900e-003	0.1453	0.0826	0.2280	0.0385	0.0826	0.1211	0.0000	413.1642	413.1642	0.0210	0.0000	413.6888
<b>Maximum</b>	<b>40.0710</b>	<b>42.6693</b>	<b>22.9390</b>	<b>0.0481</b>	<b>18.2802</b>	<b>2.1998</b>	<b>20.4801</b>	<b>9.9877</b>	<b>2.0239</b>	<b>12.0116</b>	<b>0.0000</b>	<b>4,764.2694</b>	<b>4,764.2694</b>	<b>1.2007</b>	<b>0.0000</b>	<b>4,793.0219</b>

**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	1.1397	16.3436	25.8596	0.0481	7.9208	0.1389	7.9852	4.2983	0.1381	4.3627	0.0000	4,764.2694	4,764.2694	1.2007	0.0000	4,793.0219
2021	39.9065	12.4989	20.5329	0.0381	0.7816	0.1201	0.9017	0.2110	0.1196	0.3306	0.0000	3,704.7593	3,704.7593	0.6667	0.0000	3,721.4272
2022	39.9040	1.0856	2.2009	4.2900e-003	0.1339	4.8800e-003	0.1388	0.0358	4.8100e-003	0.0406	0.0000	413.1642	413.1642	0.0210	0.0000	413.6888
<b>Maximum</b>	<b>39.9065</b>	<b>16.3436</b>	<b>25.8596</b>	<b>0.0481</b>	<b>7.9208</b>	<b>0.1389</b>	<b>7.9852</b>	<b>4.2983</b>	<b>0.1381</b>	<b>4.3627</b>	<b>0.0000</b>	<b>4,764.2694</b>	<b>4,764.2694</b>	<b>1.2007</b>	<b>0.0000</b>	<b>4,793.0219</b>

  

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>3.95</b>	<b>52.70</b>	<b>-10.11</b>	<b>0.00</b>	<b>54.15</b>	<b>91.88</b>	<b>59.92</b>	<b>55.67</b>	<b>91.30</b>	<b>64.32</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**2.2 Overall Operational  
Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.7161	0.0553	4.7993	2.5000e-004		0.0265	0.0265		0.0265	0.0265	0.0000	8.6355	8.6355	8.3600e-003	0.0000	8.8446
Energy	0.0302	0.2584	0.1100	1.6500e-003		0.0209	0.0209		0.0209	0.0209		329.8780	329.8780	6.3200e-003	6.0500e-003	331.8383
Mobile	0.6126	0.8237	7.9383	0.0271	2.9721	0.0194	2.9915	0.7885	0.0179	0.8063		2,713.8476	2,713.8476	0.0797		2,715.8392
<b>Total</b>	<b>3.3589</b>	<b>1.1375</b>	<b>12.8475</b>	<b>0.0290</b>	<b>2.9721</b>	<b>0.0668</b>	<b>3.0389</b>	<b>0.7885</b>	<b>0.0653</b>	<b>0.8537</b>	<b>0.0000</b>	<b>3,052.3611</b>	<b>3,052.3611</b>	<b>0.0944</b>	<b>6.0500e-003</b>	<b>3,056.5221</b>

**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	2.7161	0.0553	4.7993	2.5000e-004		0.0265	0.0265		0.0265	0.0265	0.0000	8.6355	8.6355	8.3600e-003	0.0000	8.8446
Energy	0.0240	0.2051	0.0873	1.3100e-003		0.0166	0.0166		0.0166	0.0166		261.8504	261.8504	5.0200e-003	4.8000e-003	263.4065
Mobile	0.6126	0.8237	7.9383	0.0271	2.9721	0.0194	2.9915	0.7885	0.0179	0.8063		2,713.8476	2,713.8476	0.0797		2,715.8392
<b>Total</b>	<b>3.3527</b>	<b>1.0842</b>	<b>12.8248</b>	<b>0.0287</b>	<b>2.9721</b>	<b>0.0625</b>	<b>3.0346</b>	<b>0.7885</b>	<b>0.0609</b>	<b>0.8494</b>	<b>0.0000</b>	<b>2,984.3335</b>	<b>2,984.3335</b>	<b>0.0931</b>	<b>4.8000e-003</b>	<b>2,988.0903</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.19</b>	<b>4.68</b>	<b>0.18</b>	<b>1.17</b>	<b>0.00</b>	<b>6.46</b>	<b>0.14</b>	<b>0.00</b>	<b>6.61</b>	<b>0.50</b>	<b>0.00</b>	<b>2.23</b>	<b>2.23</b>	<b>1.38</b>	<b>20.66</b>	<b>2.24</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Asphalt and Building Demolition	Demolition	1/6/2020	2/27/2020	5	39	
2	Site Preparation	Site Preparation	2/28/2020	3/6/2020	5	6	
3	Grading	Grading	3/9/2020	3/24/2020	5	12	
4	Building Construction	Building Construction	3/25/2020	11/11/2021	5	427	
5	Paving	Paving	11/12/2021	12/8/2021	5	19	
6	Architectural Coating	Architectural Coating	12/9/2021	1/4/2022	5	19	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 6**

Acres of Paving: 2.04

Residential Indoor: 239,661; Residential Outdoor: 79,887; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Asphalt and Building Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Asphalt and Building Demolition	Excavators	3	8.00	158	0.38
Asphalt and Building Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

## Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Asphalt and Building Demolition	6	15.00	0.00	390.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	66.00	17.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Asphalt and Building Demolition - 2020

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7064	0.0000	1.7064	0.2584	0.0000	0.2584			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
<b>Total</b>	<b>3.3121</b>	<b>33.2010</b>	<b>21.7532</b>	<b>0.0388</b>	<b>1.7064</b>	<b>1.6587</b>	<b>3.3651</b>	<b>0.2584</b>	<b>1.5419</b>	<b>1.8002</b>		<b>3,747.7049</b>	<b>3,747.7049</b>	<b>1.0580</b>		<b>3,774.1536</b>

**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	0.0755	2.7497	0.6948	7.6500e-003	0.1741	8.9000e-003	0.1830	0.0477	8.5200e-003	0.0562		853.0579	853.0579	0.0884		855.2685
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0576	0.0363	0.4910	1.6400e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455		163.5065	163.5065	3.7300e-003		163.5997
<b>Total</b>	<b>0.1332</b>	<b>2.7860</b>	<b>1.1858</b>	<b>9.2900e-003</b>	<b>0.3418</b>	<b>0.0100</b>	<b>0.3518</b>	<b>0.0921</b>	<b>9.5400e-003</b>	<b>0.1017</b>		<b>1,016.5644</b>	<b>1,016.5644</b>	<b>0.0922</b>		<b>1,018.8683</b>

**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					0.7295	0.0000	0.7295	0.1105	0.0000	0.1105			0.0000			0.0000
Off-Road	0.5841	13.5576	24.6739	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
<b>Total</b>	<b>0.5841</b>	<b>13.5576</b>	<b>24.6739</b>	<b>0.0388</b>	<b>0.7295</b>	<b>0.0616</b>	<b>0.7911</b>	<b>0.1105</b>	<b>0.0616</b>	<b>0.1721</b>	<b>0.0000</b>	<b>3,747.7049</b>	<b>3,747.7049</b>	<b>1.0580</b>		<b>3,774.1536</b>



**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	0.0755	2.7497	0.6948	7.6500e-003	0.1622	8.9000e-003	0.1711	0.0447	8.5200e-003	0.0533		853.0579	853.0579	0.0884		855.2685
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0576	0.0363	0.4910	1.6400e-003	0.1546	1.1100e-003	0.1557	0.0413	1.0200e-003	0.0423		163.5065	163.5065	3.7300e-003		163.5997
<b>Total</b>	<b>0.1332</b>	<b>2.7860</b>	<b>1.1858</b>	<b>9.2900e-003</b>	<b>0.3168</b>	<b>0.0100</b>	<b>0.3268</b>	<b>0.0860</b>	<b>9.5400e-003</b>	<b>0.0955</b>		<b>1,016.5644</b>	<b>1,016.5644</b>	<b>0.0922</b>		<b>1,018.8683</b>

**3.3 Site Preparation - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>		<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

**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	6.3900e-003	0.2084	0.0550	5.0000e-004	0.0128	1.0900e-003	0.0139	3.6800e-003	1.0400e-003	4.7200e-003		54.2258	54.2258	4.3900e-003		54.3354
Worker	0.0692	0.0436	0.5892	1.9700e-003	0.2012	1.3300e-003	0.2025	0.0534	1.2300e-003	0.0546		196.2079	196.2079	4.4700e-003		196.3197
<b>Total</b>	<b>0.0756</b>	<b>0.2519</b>	<b>0.6442</b>	<b>2.4700e-003</b>	<b>0.2140</b>	<b>2.4200e-003</b>	<b>0.2164</b>	<b>0.0570</b>	<b>2.2700e-003</b>	<b>0.0593</b>		<b>250.4336</b>	<b>250.4336</b>	<b>8.8600e-003</b>		<b>250.6551</b>

**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					7.7233	0.0000	7.7233	4.2454	0.0000	4.2454			0.0000			0.0000
Off-Road	0.6967	12.1620	22.9600	0.0380		0.0621	0.0621		0.0621	0.0621	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>0.6967</b>	<b>12.1620</b>	<b>22.9600</b>	<b>0.0380</b>	<b>7.7233</b>	<b>0.0621</b>	<b>7.7854</b>	<b>4.2454</b>	<b>0.0621</b>	<b>4.3075</b>	<b>0.0000</b>	<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

**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	6.3900e-003	0.2084	0.0550	5.0000e-004	0.0120	1.0900e-003	0.0130	3.4800e-003	1.0400e-003	4.5200e-003		54.2258	54.2258	4.3900e-003		54.3354
Worker	0.0692	0.0436	0.5892	1.9700e-003	0.1855	1.3300e-003	0.1868	0.0495	1.2300e-003	0.0507		196.2079	196.2079	4.4700e-003		196.3197
<b>Total</b>	<b>0.0756</b>	<b>0.2519</b>	<b>0.6442</b>	<b>2.4700e-003</b>	<b>0.1974</b>	<b>2.4200e-003</b>	<b>0.1998</b>	<b>0.0530</b>	<b>2.2700e-003</b>	<b>0.0552</b>		<b>250.4336</b>	<b>250.4336</b>	<b>8.8600e-003</b>		<b>250.6551</b>

**3.4 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716		2,872.4851	2,872.4851	0.9290		2,895.7106
<b>Total</b>	<b>2.4288</b>	<b>26.3859</b>	<b>16.0530</b>	<b>0.0297</b>	<b>6.5523</b>	<b>1.2734</b>	<b>7.8258</b>	<b>3.3675</b>	<b>1.1716</b>	<b>4.5390</b>		<b>2,872.4851</b>	<b>2,872.4851</b>	<b>0.9290</b>		<b>2,895.7106</b>

**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	0.0576	0.0363	0.4910	1.6400e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455		163.5065	163.5065	3.7300e-003		163.5997
<b>Total</b>	<b>0.0576</b>	<b>0.0363</b>	<b>0.4910</b>	<b>1.6400e-003</b>	<b>0.1677</b>	<b>1.1100e-003</b>	<b>0.1688</b>	<b>0.0445</b>	<b>1.0200e-003</b>	<b>0.0455</b>		<b>163.5065</b>	<b>163.5065</b>	<b>3.7300e-003</b>		<b>163.5997</b>

**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					2.8011	0.0000	2.8011	1.4396	0.0000	1.4396			0.0000			0.0000
Off-Road	0.5200	10.3327	18.9906	0.0297		0.0484	0.0484		0.0484	0.0484	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106
<b>Total</b>	<b>0.5200</b>	<b>10.3327</b>	<b>18.9906</b>	<b>0.0297</b>	<b>2.8011</b>	<b>0.0484</b>	<b>2.8495</b>	<b>1.4396</b>	<b>0.0484</b>	<b>1.4880</b>	<b>0.0000</b>	<b>2,872.4851</b>	<b>2,872.4851</b>	<b>0.9290</b>		<b>2,895.7106</b>

**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	0.0576	0.0363	0.4910	1.6400e-003	0.1546	1.1100e-003	0.1557	0.0413	1.0200e-003	0.0423		163.5065	163.5065	3.7300e-003		163.5997
<b>Total</b>	<b>0.0576</b>	<b>0.0363</b>	<b>0.4910</b>	<b>1.6400e-003</b>	<b>0.1546</b>	<b>1.1100e-003</b>	<b>0.1557</b>	<b>0.0413</b>	<b>1.0200e-003</b>	<b>0.0423</b>		<b>163.5065</b>	<b>163.5065</b>	<b>3.7300e-003</b>		<b>163.5997</b>

**3.5 Building Construction - 2020**

**Unmitigated Construction On-Site**

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

**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	0.0543	1.7710	0.4674	4.2300e-003	0.1086	9.2400e-003	0.1179	0.0313	8.8400e-003	0.0401		460.9192	460.9192	0.0373			461.8511
Worker	0.2536	0.1598	2.1604	7.2200e-003	0.7377	4.8800e-003	0.7426	0.1957	4.4900e-003	0.2001		719.4288	719.4288	0.0164			719.8388
<b>Total</b>	<b>0.3079</b>	<b>1.9308</b>	<b>2.6278</b>	<b>0.0115</b>	<b>0.8463</b>	<b>0.0141</b>	<b>0.8605</b>	<b>0.2269</b>	<b>0.0133</b>	<b>0.2402</b>		<b>1,180.3480</b>	<b>1,180.3480</b>	<b>0.0537</b>			<b>1,181.6899</b>

**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	0.8318	10.8224	18.1439	0.0269		0.1248	0.1248		0.1248	0.1248	0.0000	2,553.0631	2,553.0631	0.6229			2,568.6345
<b>Total</b>	<b>0.8318</b>	<b>10.8224</b>	<b>18.1439</b>	<b>0.0269</b>		<b>0.1248</b>	<b>0.1248</b>		<b>0.1248</b>	<b>0.1248</b>	<b>0.0000</b>	<b>2,553.0631</b>	<b>2,553.0631</b>	<b>0.6229</b>			<b>2,568.6345</b>

**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	0.0543	1.7710	0.4674	4.2300e-003	0.1016	9.2400e-003	0.1109	0.0295	8.8400e-003	0.0384		460.9192	460.9192	0.0373			461.8511
Worker	0.2536	0.1598	2.1604	7.2200e-003	0.6800	4.8800e-003	0.6849	0.1815	4.4900e-003	0.1860		719.4288	719.4288	0.0164			719.8388
<b>Total</b>	<b>0.3079</b>	<b>1.9308</b>	<b>2.6278</b>	<b>0.0115</b>	<b>0.7816</b>	<b>0.0141</b>	<b>0.7958</b>	<b>0.2110</b>	<b>0.0133</b>	<b>0.2244</b>		<b>1,180.3480</b>	<b>1,180.3480</b>	<b>0.0537</b>			<b>1,181.6899</b>

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

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

**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	0.0454	1.5948	0.4325	4.1900e-003	0.1086	3.3100e-003	0.1119	0.0313	3.1700e-003	0.0344		456.9473	456.9473	0.0358			457.8430
Worker	0.2382	0.1441	2.0046	6.9600e-003	0.7377	4.7800e-003	0.7425	0.1957	4.4000e-003	0.2000		694.4481	694.4481	0.0149			694.8199
<b>Total</b>	<b>0.2836</b>	<b>1.7390</b>	<b>2.4371</b>	<b>0.0112</b>	<b>0.8463</b>	<b>8.0900e-003</b>	<b>0.8544</b>	<b>0.2269</b>	<b>7.5700e-003</b>	<b>0.2345</b>		<b>1,151.3954</b>	<b>1,151.3954</b>	<b>0.0507</b>			<b>1,152.6630</b>

**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	0.7923	10.7599	18.0957	0.0269		0.1120	0.1120		0.1120	0.1120	0.0000	2,553.3639	2,553.3639	0.6160			2,568.7643
<b>Total</b>	<b>0.7923</b>	<b>10.7599</b>	<b>18.0957</b>	<b>0.0269</b>		<b>0.1120</b>	<b>0.1120</b>		<b>0.1120</b>	<b>0.1120</b>	<b>0.0000</b>	<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>			<b>2,568.7643</b>



**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	0.0454	1.5948	0.4325	4.1900e-003	0.1016	3.3100e-003	0.1050	0.0295	3.1700e-003	0.0327		456.9473	456.9473	0.0358			457.8430
Worker	0.2382	0.1441	2.0046	6.9600e-003	0.6800	4.7800e-003	0.6848	0.1815	4.4000e-003	0.1859		694.4481	694.4481	0.0149			694.8199
<b>Total</b>	<b>0.2836</b>	<b>1.7390</b>	<b>2.4371</b>	<b>0.0112</b>	<b>0.7816</b>	<b>8.0900e-003</b>	<b>0.7897</b>	<b>0.2110</b>	<b>7.5700e-003</b>	<b>0.2186</b>		<b>1,151.3954</b>	<b>1,151.3954</b>	<b>0.0507</b>			<b>1,152.6630</b>

**3.6 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342		1,804.5523	1,804.5523	0.5670			1,818.7270
Paving	0.1793					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.2732</b>	<b>10.8399</b>	<b>12.2603</b>	<b>0.0189</b>		<b>0.5788</b>	<b>0.5788</b>		<b>0.5342</b>	<b>0.5342</b>		<b>1,804.5523</b>	<b>1,804.5523</b>	<b>0.5670</b>			<b>1,818.7270</b>

**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	5.3400e-003	0.1876	0.0509	4.9000e-004	0.0128	3.9000e-004	0.0132	3.6800e-003	3.7000e-004	4.0500e-003		53.7585	53.7585	4.2200e-003			53.8639
Worker	0.0722	0.0437	0.6075	2.1100e-003	0.2236	1.4500e-003	0.2250	0.0593	1.3300e-003	0.0606		210.4388	210.4388	4.5100e-003			210.5515
<b>Total</b>	<b>0.0775</b>	<b>0.2313</b>	<b>0.6584</b>	<b>2.6000e-003</b>	<b>0.2363</b>	<b>1.8400e-003</b>	<b>0.2382</b>	<b>0.0630</b>	<b>1.7000e-003</b>	<b>0.0647</b>		<b>264.1973</b>	<b>264.1973</b>	<b>8.7300e-003</b>			<b>264.4154</b>

**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	0.3794	8.4013	13.9949	0.0189		0.0507	0.0507		0.0507	0.0507	0.0000	1,804.5523	1,804.5523	0.5670			1,818.7270
Paving	0.1793					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>0.5587</b>	<b>8.4013</b>	<b>13.9949</b>	<b>0.0189</b>		<b>0.0507</b>	<b>0.0507</b>		<b>0.0507</b>	<b>0.0507</b>	<b>0.0000</b>	<b>1,804.5523</b>	<b>1,804.5523</b>	<b>0.5670</b>			<b>1,818.7270</b>

**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	5.3400e-003	0.1876	0.0509	4.9000e-004	0.0120	3.9000e-004	0.0124	3.4800e-003	3.7000e-004	3.8500e-003		53.7585	53.7585	4.2200e-003		53.8639
Worker	0.0722	0.0437	0.6075	2.1100e-003	0.2061	1.4500e-003	0.2075	0.0550	1.3300e-003	0.0563		210.4388	210.4388	4.5100e-003		210.5515
<b>Total</b>	<b>0.0775</b>	<b>0.2313</b>	<b>0.6584</b>	<b>2.6000e-003</b>	<b>0.2180</b>	<b>1.8400e-003</b>	<b>0.2199</b>	<b>0.0585</b>	<b>1.7000e-003</b>	<b>0.0602</b>		<b>264.1973</b>	<b>264.1973</b>	<b>8.7300e-003</b>		<b>264.4154</b>

**3.7 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	39.8051					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
<b>Total</b>	<b>40.0240</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

**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	0.0469	0.0284	0.3949	1.3700e-003	0.1453	9.4000e-004	0.1463	0.0385	8.7000e-004	0.0394		136.7852	136.7852	2.9300e-003		136.8585
<b>Total</b>	<b>0.0469</b>	<b>0.0284</b>	<b>0.3949</b>	<b>1.3700e-003</b>	<b>0.1453</b>	<b>9.4000e-004</b>	<b>0.1463</b>	<b>0.0385</b>	<b>8.7000e-004</b>	<b>0.0394</b>		<b>136.7852</b>	<b>136.7852</b>	<b>2.9300e-003</b>		<b>136.8585</b>

**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	39.8051					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0545	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>39.8596</b>	<b>1.0598</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

**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	0.0469	0.0284	0.3949	1.3700e-003	0.1339	9.4000e-004	0.1349	0.0358	8.7000e-004	0.0366		136.7852	136.7852	2.9300e-003		136.8585
<b>Total</b>	<b>0.0469</b>	<b>0.0284</b>	<b>0.3949</b>	<b>1.3700e-003</b>	<b>0.1339</b>	<b>9.4000e-004</b>	<b>0.1349</b>	<b>0.0358</b>	<b>8.7000e-004</b>	<b>0.0366</b>		<b>136.7852</b>	<b>136.7852</b>	<b>2.9300e-003</b>		<b>136.8585</b>

**3.7 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	39.8051					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>40.0097</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0443	0.0257	0.3685	1.3200e-003	0.1453	9.2000e-004	0.1462	0.0385	8.5000e-004	0.0394		131.7162	131.7162	2.6600e-003		131.7827
<b>Total</b>	<b>0.0443</b>	<b>0.0257</b>	<b>0.3685</b>	<b>1.3200e-003</b>	<b>0.1453</b>	<b>9.2000e-004</b>	<b>0.1462</b>	<b>0.0385</b>	<b>8.5000e-004</b>	<b>0.0394</b>		<b>131.7162</b>	<b>131.7162</b>	<b>2.6600e-003</b>		<b>131.7827</b>

**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	39.8051					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0545	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>39.8596</b>	<b>1.0598</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

### Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0443	0.0257	0.3685	1.3200e-003	0.1339	9.2000e-004	0.1349	0.0358	8.5000e-004	0.0366		131.7162	131.7162	2.6600e-003		131.7827
<b>Total</b>	<b>0.0443</b>	<b>0.0257</b>	<b>0.3685</b>	<b>1.3200e-003</b>	<b>0.1339</b>	<b>9.2000e-004</b>	<b>0.1349</b>	<b>0.0358</b>	<b>8.5000e-004</b>	<b>0.0366</b>		<b>131.7162</b>	<b>131.7162</b>	<b>2.6600e-003</b>		<b>131.7827</b>

### 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	0.6126	0.8237	7.9383	0.0271	2.9721	0.0194	2.9915	0.7885	0.0179	0.8063		2,713.8476	2,713.8476	0.0797		2,715.8392
Unmitigated	0.6126	0.8237	7.9383	0.0271	2.9721	0.0194	2.9915	0.7885	0.0179	0.8063		2,713.8476	2,713.8476	0.0797		2,715.8392

## 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	439.06	472.12	364.24	1,304,439	1,304,439
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>439.06</b>	<b>472.12</b>	<b>364.24</b>	<b>1,304,439</b>	<b>1,304,439</b>

## 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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	71	29	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

## 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.664531	0.051237	0.247964	0.020000	0.002418	0.000901	0.004017	0.002664	0.000000	0.000000	0.006268	0.000000	0.000000
Other Non-Asphalt Surfaces	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Parking Lot	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934

## 5.0 Energy Detail

Historical Energy Use: N

## 5.1 Mitigation Measures Energy

Exceed Title 24



	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0240	0.2051	0.0873	1.3100e-003		0.0166	0.0166		0.0166	0.0166		261.8504	261.8504	5.0200e-003	4.8000e-003	263.4065
NaturalGas Unmitigated	0.0302	0.2584	0.1100	1.6500e-003		0.0209	0.0209		0.0209	0.0209		329.8780	329.8780	6.3200e-003	6.0500e-003	331.8383

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	2803.96	0.0302	0.2584	0.1100	1.6500e-003		0.0209	0.0209		0.0209	0.0209		329.8780	329.8780	6.3200e-003	6.0500e-003	331.8383
Other Non-Asphalt Surfaces	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
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
<b>Total</b>		<b>0.0302</b>	<b>0.2584</b>	<b>0.1100</b>	<b>1.6500e-003</b>		<b>0.0209</b>	<b>0.0209</b>		<b>0.0209</b>	<b>0.0209</b>		<b>329.8780</b>	<b>329.8780</b>	<b>6.3200e-003</b>	<b>6.0500e-003</b>	<b>331.8383</b>

## 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					
Condo/Townhouse	2.22573	0.0240	0.2051	0.0873	1.3100e-003		0.0166	0.0166		0.0166	0.0166		261.8504	261.8504	5.0200e-003	4.8000e-003	263.4065
Other Non-Asphalt Surfaces	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
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
<b>Total</b>		<b>0.0240</b>	<b>0.2051</b>	<b>0.0873</b>	<b>1.3100e-003</b>		<b>0.0166</b>	<b>0.0166</b>		<b>0.0166</b>	<b>0.0166</b>		<b>261.8504</b>	<b>261.8504</b>	<b>5.0200e-003</b>	<b>4.8000e-003</b>	<b>263.4065</b>

## 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	2.7161	0.0553	4.7993	2.5000e-004		0.0265	0.0265		0.0265	0.0265	0.0000	8.6355	8.6355	8.3600e-003	0.0000	8.8446
Unmitigated	2.7161	0.0553	4.7993	2.5000e-004		0.0265	0.0265		0.0265	0.0265	0.0000	8.6355	8.6355	8.3600e-003	0.0000	8.8446

## 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	0.2072					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3634					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1455	0.0553	4.7993	2.5000e-004		0.0265	0.0265		0.0265	0.0265		8.6355	8.6355	8.3600e-003		8.8446
<b>Total</b>	<b>2.7161</b>	<b>0.0553</b>	<b>4.7993</b>	<b>2.5000e-004</b>		<b>0.0265</b>	<b>0.0265</b>		<b>0.0265</b>	<b>0.0265</b>	<b>0.0000</b>	<b>8.6355</b>	<b>8.6355</b>	<b>8.3600e-003</b>	<b>0.0000</b>	<b>8.8446</b>

### 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	0.2072					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3634					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1455	0.0553	4.7993	2.5000e-004		0.0265	0.0265		0.0265	0.0265		8.6355	8.6355	8.3600e-003		8.8446
<b>Total</b>	<b>2.7161</b>	<b>0.0553</b>	<b>4.7993</b>	<b>2.5000e-004</b>		<b>0.0265</b>	<b>0.0265</b>		<b>0.0265</b>	<b>0.0265</b>	<b>0.0000</b>	<b>8.6355</b>	<b>8.6355</b>	<b>8.3600e-003</b>	<b>0.0000</b>	<b>8.8446</b>

## 7.0 Water Detail

## 7.1 Mitigation Measures Water

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

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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### 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

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Residences at Nohl Ranch Operation and Construction 2022 - Mitigation - Orange County, Winter

**Residences at Nohl Ranch Operation and Construction 2022 - Mitigation  
Orange County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	32.23	1000sqft	0.74	0.00	0
Parking Lot	56.61	1000sqft	1.30	56,610.00	0
Condo/Townhouse	58.00	Dwelling Unit	1.11	118,351.00	166

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Refer to CalEEMod inputs.

Construction Phase - Based on a two year construction schedule.

Trips and VMT - Added concrete and water trucks.

Demolition -

Grading -

Vehicle Trips - Refer to CalEEMod inputs.

Woodstoves - No woodstoves or fireplaces.

Water And Wastewater - Refer to CalEEMod inputs.

Construction Off-road Equipment Mitigation - SCAQMD Rule 403 and 1186

Energy Mitigation -

Water Mitigation -

Fleet Mix - Refer to CalEEMod inputs Fleet Mix.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	11.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim

tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstEquipMitigation	Tier	No Change	Tier 4 Interim
tblConstructionPhase	NumDays	20.00	39.00
tblConstructionPhase	NumDays	5.00	6.00
tblConstructionPhase	NumDays	8.00	12.00
tblConstructionPhase	NumDays	230.00	427.00
tblConstructionPhase	NumDays	18.00	19.00
tblConstructionPhase	NumDays	18.00	19.00
tblFireplaces	NumberGas	49.30	0.00
tblFireplaces	NumberNoFireplace	5.80	0.00
tblFireplaces	NumberWood	2.90	0.00
tblFleetMix	HHD	0.02	2.6640e-003
tblFleetMix	LDA	0.56	0.66
tblFleetMix	LDT1	0.04	0.05
tblFleetMix	LDT2	0.21	0.25
tblFleetMix	LHD1	0.02	2.4180e-003
tblFleetMix	LHD2	5.7950e-003	9.0100e-004
tblFleetMix	MCY	4.9260e-003	6.2680e-003
tblFleetMix	MDV	0.11	0.02
tblFleetMix	MH	9.3400e-004	0.00
tblFleetMix	MHD	0.03	4.0170e-003
tblFleetMix	OBUS	1.7470e-003	0.00
tblFleetMix	SBUS	5.9400e-004	0.00
tblFleetMix	UBUS	1.5420e-003	0.00
tblLandUse	LandUseSquareFeet	32,230.00	0.00
tblLandUse	LandUseSquareFeet	58,000.00	118,351.00
tblLandUse	LotAcreage	3.63	1.11
tblTripsAndVMT	HaulingTripNumber	308.00	390.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

tblTripsAndVMT	VendorTripNumber	15.00	17.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblVehicleTrips	DV_TP	11.00	29.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	86.00	71.00
tblVehicleTrips	ST_TR	5.67	8.14
tblVehicleTrips	SU_TR	4.84	6.28
tblVehicleTrips	WD_TR	5.81	7.57
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	3,778,933.49	6,351,000.00
tblWater	OutdoorWaterUseRate	2,382,371.11	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWoodstoves	NumberCatalytic	2.90	0.00
tblWoodstoves	NumberNoncatalytic	2.90	0.00

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	4.1613	42.6735	22.9385	0.0479	18.2802	2.1999	20.4801	9.9877	2.0239	12.0116	0.0000	4,742.6280	4,742.6280	1.2007	0.0000	4,771.4282
2021	40.0772	19.1816	18.8995	0.0376	0.8463	0.9668	1.8132	0.2269	0.9090	1.1359	0.0000	3,656.3344	3,656.3344	0.6677	0.0000	3,673.0262
2022	40.0600	1.4367	2.1531	4.2200e-003	0.1453	0.0826	0.2280	0.0385	0.0826	0.1211	0.0000	406.1153	406.1153	0.0208	0.0000	406.6363
<b>Maximum</b>	<b>40.0772</b>	<b>42.6735</b>	<b>22.9385</b>	<b>0.0479</b>	<b>18.2802</b>	<b>2.1999</b>	<b>20.4801</b>	<b>9.9877</b>	<b>2.0239</b>	<b>12.0116</b>	<b>0.0000</b>	<b>4,742.6280</b>	<b>4,742.6280</b>	<b>1.2007</b>	<b>0.0000</b>	<b>4,771.4282</b>



**Mitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	1.1751	16.3818	25.8592	0.0479	7.9208	0.1390	7.9853	4.2983	0.1382	4.3627	0.0000	4,742.6280	4,742.6280	1.2007	0.0000	4,771.4282
2021	39.9127	12.5094	20.4200	0.0376	0.7816	0.1202	0.9018	0.2110	0.1197	0.3307	0.0000	3,656.3344	3,656.3344	0.6677	0.0000	3,673.0262
2022	39.9100	1.0881	2.1719	4.2200e-003	0.1339	4.8800e-003	0.1388	0.0358	4.8100e-003	0.0406	0.0000	406.1153	406.1153	0.0208	0.0000	406.6363
<b>Maximum</b>	<b>39.9127</b>	<b>16.3818</b>	<b>25.8592</b>	<b>0.0479</b>	<b>7.9208</b>	<b>0.1390</b>	<b>7.9853</b>	<b>4.2983</b>	<b>0.1382</b>	<b>4.3627</b>	<b>0.0000</b>	<b>4,742.6280</b>	<b>4,742.6280</b>	<b>1.2007</b>	<b>0.0000</b>	<b>4,771.4282</b>

  

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>3.92</b>	<b>52.63</b>	<b>-10.14</b>	<b>0.00</b>	<b>54.15</b>	<b>91.87</b>	<b>59.92</b>	<b>55.67</b>	<b>91.29</b>	<b>64.32</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.7161	0.0553	4.7993	2.5000e-004		0.0265	0.0265		0.0265	0.0265	0.0000	8.6355	8.6355	8.3600e-003	0.0000	8.8446
Energy	0.0302	0.2584	0.1100	1.6500e-003		0.0209	0.0209		0.0209	0.0209		329.8780	329.8780	6.3200e-003	6.0500e-003	331.8383
Mobile	0.5994	0.8768	7.5480	0.0257	2.9721	0.0194	2.9915	0.7885	0.0179	0.8063		2,573.9576	2,573.9576	0.0784		2,575.9171
<b>Total</b>	<b>3.3457</b>	<b>1.1905</b>	<b>12.4573</b>	<b>0.0276</b>	<b>2.9721</b>	<b>0.0668</b>	<b>3.0389</b>	<b>0.7885</b>	<b>0.0653</b>	<b>0.8537</b>	<b>0.0000</b>	<b>2,912.4711</b>	<b>2,912.4711</b>	<b>0.0931</b>	<b>6.0500e-003</b>	<b>2,916.6000</b>

**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	2.7161	0.0553	4.7993	2.5000e-004		0.0265	0.0265		0.0265	0.0265	0.0000	8.6355	8.6355	8.3600e-003	0.0000	8.8446
Energy	0.0240	0.2051	0.0873	1.3100e-003		0.0166	0.0166		0.0166	0.0166		261.8504	261.8504	5.0200e-003	4.8000e-003	263.4065
Mobile	0.5994	0.8768	7.5480	0.0257	2.9721	0.0194	2.9915	0.7885	0.0179	0.8063		2,573.9576	2,573.9576	0.0784		2,575.9171
<b>Total</b>	<b>3.3395</b>	<b>1.1373</b>	<b>12.4346</b>	<b>0.0273</b>	<b>2.9721</b>	<b>0.0625</b>	<b>3.0346</b>	<b>0.7885</b>	<b>0.0610</b>	<b>0.8494</b>	<b>0.0000</b>	<b>2,844.4435</b>	<b>2,844.4435</b>	<b>0.0918</b>	<b>4.8000e-003</b>	<b>2,848.1682</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>0.19</b>	<b>4.48</b>	<b>0.18</b>	<b>1.23</b>	<b>0.00</b>	<b>6.45</b>	<b>0.14</b>	<b>0.00</b>	<b>6.60</b>	<b>0.50</b>	<b>0.00</b>	<b>2.34</b>	<b>2.34</b>	<b>1.40</b>	<b>20.66</b>	<b>2.35</b>

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Asphalt and Building Demolition	Demolition	1/6/2020	2/27/2020	5	39	
2	Site Preparation	Site Preparation	2/28/2020	3/6/2020	5	6	
3	Grading	Grading	3/9/2020	3/24/2020	5	12	
4	Building Construction	Building Construction	3/25/2020	11/11/2021	5	427	
5	Paving	Paving	11/12/2021	12/8/2021	5	19	
6	Architectural Coating	Architectural Coating	12/9/2021	1/4/2022	5	19	

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 6**

Acres of Paving: 2.04

Residential Indoor: 239,661; Residential Outdoor: 79,887; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Asphalt and Building Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Asphalt and Building Demolition	Excavators	3	8.00	158	0.38
Asphalt and Building Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Asphalt and Building Demolition	6	15.00	0.00	390.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	66.00	17.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

- Use Cleaner Engines for Construction Equipment
- Replace Ground Cover
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads
- Clean Paved Roads

**3.2 Asphalt and Building Demolition - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7064	0.0000	1.7064	0.2584	0.0000	0.2584			0.0000			0.0000
Off-Road	3.3121	33.2010	21.7532	0.0388		1.6587	1.6587		1.5419	1.5419		3,747.7049	3,747.7049	1.0580		3,774.1536
<b>Total</b>	<b>3.3121</b>	<b>33.2010</b>	<b>21.7532</b>	<b>0.0388</b>	<b>1.7064</b>	<b>1.6587</b>	<b>3.3651</b>	<b>0.2584</b>	<b>1.5419</b>	<b>1.8002</b>		<b>3,747.7049</b>	<b>3,747.7049</b>	<b>1.0580</b>		<b>3,774.1536</b>

**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	0.0774	2.7843	0.7315	7.5400e-003	0.1741	9.0700e-003	0.1832	0.0477	8.6700e-003	0.0563		840.1799	840.1799	0.0905		842.4431
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0651	0.0399	0.4538	1.5500e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455		154.7432	154.7432	3.5300e-003		154.8314
<b>Total</b>	<b>0.1425</b>	<b>2.8242</b>	<b>1.1853</b>	<b>9.0900e-003</b>	<b>0.3418</b>	<b>0.0102</b>	<b>0.3520</b>	<b>0.0921</b>	<b>9.6900e-003</b>	<b>0.1018</b>		<b>994.9231</b>	<b>994.9231</b>	<b>0.0941</b>		<b>997.2746</b>

**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					0.7295	0.0000	0.7295	0.1105	0.0000	0.1105			0.0000			0.0000
Off-Road	0.5841	13.5576	24.6739	0.0388		0.0616	0.0616		0.0616	0.0616	0.0000	3,747.7049	3,747.7049	1.0580		3,774.1536
<b>Total</b>	<b>0.5841</b>	<b>13.5576</b>	<b>24.6739</b>	<b>0.0388</b>	<b>0.7295</b>	<b>0.0616</b>	<b>0.7911</b>	<b>0.1105</b>	<b>0.0616</b>	<b>0.1721</b>	<b>0.0000</b>	<b>3,747.7049</b>	<b>3,747.7049</b>	<b>1.0580</b>		<b>3,774.1536</b>

**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	0.0774	2.7843	0.7315	7.5400e-003	0.1622	9.0700e-003	0.1713	0.0447	8.6700e-003	0.0534		840.1799	840.1799	0.0905		842.4431
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0651	0.0399	0.4538	1.5500e-003	0.1546	1.1100e-003	0.1557	0.0413	1.0200e-003	0.0423		154.7432	154.7432	3.5300e-003		154.8314
<b>Total</b>	<b>0.1425</b>	<b>2.8242</b>	<b>1.1853</b>	<b>9.0900e-003</b>	<b>0.3168</b>	<b>0.0102</b>	<b>0.3269</b>	<b>0.0860</b>	<b>9.6900e-003</b>	<b>0.0957</b>		<b>994.9231</b>	<b>994.9231</b>	<b>0.0941</b>		<b>997.2746</b>

**3.3 Site Preparation - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.0765	42.4173	21.5136	0.0380		2.1974	2.1974		2.0216	2.0216		3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>4.0765</b>	<b>42.4173</b>	<b>21.5136</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.1974</b>	<b>20.2637</b>	<b>9.9307</b>	<b>2.0216</b>	<b>11.9523</b>		<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

**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	6.6700e-003	0.2083	0.0603	4.9000e-004	0.0128	1.1100e-003	0.0139	3.6800e-003	1.0600e-003	4.7400e-003		52.8932	52.8932	4.6100e-003		53.0084
Worker	0.0782	0.0479	0.5446	1.8600e-003	0.2012	1.3300e-003	0.2025	0.0534	1.2300e-003	0.0546		185.6918	185.6918	4.2400e-003		185.7977
<b>Total</b>	<b>0.0848</b>	<b>0.2562</b>	<b>0.6049</b>	<b>2.3500e-003</b>	<b>0.2140</b>	<b>2.4400e-003</b>	<b>0.2164</b>	<b>0.0570</b>	<b>2.2900e-003</b>	<b>0.0593</b>		<b>238.5850</b>	<b>238.5850</b>	<b>8.8500e-003</b>		<b>238.8061</b>

**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					7.7233	0.0000	7.7233	4.2454	0.0000	4.2454			0.0000			0.0000
Off-Road	0.6967	12.1620	22.9600	0.0380		0.0621	0.0621		0.0621	0.0621	0.0000	3,685.1016	3,685.1016	1.1918		3,714.8975
<b>Total</b>	<b>0.6967</b>	<b>12.1620</b>	<b>22.9600</b>	<b>0.0380</b>	<b>7.7233</b>	<b>0.0621</b>	<b>7.7854</b>	<b>4.2454</b>	<b>0.0621</b>	<b>4.3075</b>	<b>0.0000</b>	<b>3,685.1016</b>	<b>3,685.1016</b>	<b>1.1918</b>		<b>3,714.8975</b>

**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	6.6700e-003	0.2083	0.0603	4.9000e-004	0.0120	1.1100e-003	0.0131	3.4800e-003	1.0600e-003	4.5300e-003		52.8932	52.8932	4.6100e-003			53.0084
Worker	0.0782	0.0479	0.5446	1.8600e-003	0.1855	1.3300e-003	0.1868	0.0495	1.2300e-003	0.0507		185.6918	185.6918	4.2400e-003			185.7977
<b>Total</b>	<b>0.0848</b>	<b>0.2562</b>	<b>0.6049</b>	<b>2.3500e-003</b>	<b>0.1974</b>	<b>2.4400e-003</b>	<b>0.1999</b>	<b>0.0530</b>	<b>2.2900e-003</b>	<b>0.0553</b>		<b>238.5850</b>	<b>238.5850</b>	<b>8.8500e-003</b>			<b>238.8061</b>

**3.4 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000				0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716		2,872.4851	2,872.4851	0.9290			2,895.7106
<b>Total</b>	<b>2.4288</b>	<b>26.3859</b>	<b>16.0530</b>	<b>0.0297</b>	<b>6.5523</b>	<b>1.2734</b>	<b>7.8258</b>	<b>3.3675</b>	<b>1.1716</b>	<b>4.5390</b>		<b>2,872.4851</b>	<b>2,872.4851</b>	<b>0.9290</b>			<b>2,895.7106</b>



**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	0.0651	0.0399	0.4538	1.5500e-003	0.1677	1.1100e-003	0.1688	0.0445	1.0200e-003	0.0455		154.7432	154.7432	3.5300e-003		154.8314
<b>Total</b>	<b>0.0651</b>	<b>0.0399</b>	<b>0.4538</b>	<b>1.5500e-003</b>	<b>0.1677</b>	<b>1.1100e-003</b>	<b>0.1688</b>	<b>0.0445</b>	<b>1.0200e-003</b>	<b>0.0455</b>		<b>154.7432</b>	<b>154.7432</b>	<b>3.5300e-003</b>		<b>154.8314</b>

**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					2.8011	0.0000	2.8011	1.4396	0.0000	1.4396			0.0000			0.0000
Off-Road	0.5200	10.3327	18.9906	0.0297		0.0484	0.0484		0.0484	0.0484	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106
<b>Total</b>	<b>0.5200</b>	<b>10.3327</b>	<b>18.9906</b>	<b>0.0297</b>	<b>2.8011</b>	<b>0.0484</b>	<b>2.8495</b>	<b>1.4396</b>	<b>0.0484</b>	<b>1.4880</b>	<b>0.0000</b>	<b>2,872.4851</b>	<b>2,872.4851</b>	<b>0.9290</b>		<b>2,895.7106</b>

**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	0.0651	0.0399	0.4538	1.5500e-003	0.1546	1.1100e-003	0.1557	0.0413	1.0200e-003	0.0423		154.7432	154.7432	3.5300e-003		154.8314
<b>Total</b>	<b>0.0651</b>	<b>0.0399</b>	<b>0.4538</b>	<b>1.5500e-003</b>	<b>0.1546</b>	<b>1.1100e-003</b>	<b>0.1557</b>	<b>0.0413</b>	<b>1.0200e-003</b>	<b>0.0423</b>		<b>154.7432</b>	<b>154.7432</b>	<b>3.5300e-003</b>		<b>154.8314</b>

**3.5 Building Construction - 2020**

**Unmitigated Construction On-Site**

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

**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	0.0567	1.7704	0.5124	4.1300e-003	0.1086	9.4000e-003	0.1180	0.0313	8.9900e-003	0.0403		449.5923	449.5923	0.0392		450.5713
Worker	0.2866	0.1756	1.9968	6.8300e-003	0.7377	4.8800e-003	0.7426	0.1957	4.4900e-003	0.2001		680.8700	680.8700	0.0155		681.2583
<b>Total</b>	<b>0.3433</b>	<b>1.9460</b>	<b>2.5091</b>	<b>0.0110</b>	<b>0.8463</b>	<b>0.0143</b>	<b>0.8606</b>	<b>0.2269</b>	<b>0.0135</b>	<b>0.2404</b>		<b>1,130.4622</b>	<b>1,130.4622</b>	<b>0.0547</b>		<b>1,131.8296</b>

**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	0.8318	10.8224	18.1439	0.0269		0.1248	0.1248		0.1248	0.1248	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
<b>Total</b>	<b>0.8318</b>	<b>10.8224</b>	<b>18.1439</b>	<b>0.0269</b>		<b>0.1248</b>	<b>0.1248</b>		<b>0.1248</b>	<b>0.1248</b>	<b>0.0000</b>	<b>2,553.0631</b>	<b>2,553.0631</b>	<b>0.6229</b>		<b>2,568.6345</b>

**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	0.0567	1.7704	0.5124	4.1300e-003	0.1016	9.4000e-003	0.1110	0.0295	8.9900e-003	0.0385		449.5923	449.5923	0.0392		450.5713
Worker	0.2866	0.1756	1.9968	6.8300e-003	0.6800	4.8800e-003	0.6849	0.1815	4.4900e-003	0.1860		680.8700	680.8700	0.0155		681.2583
<b>Total</b>	<b>0.3433</b>	<b>1.9460</b>	<b>2.5091</b>	<b>0.0110</b>	<b>0.7816</b>	<b>0.0143</b>	<b>0.7959</b>	<b>0.2110</b>	<b>0.0135</b>	<b>0.2245</b>		<b>1,130.4622</b>	<b>1,130.4622</b>	<b>0.0547</b>		<b>1,131.8296</b>

**3.5 Building Construction - 2021**

**Unmitigated Construction On-Site**

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

**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	0.0476	1.5911	0.4745	4.0900e-003	0.1086	3.4400e-003	0.1121	0.0313	3.2900e-003	0.0345		445.7213	445.7213	0.0376			446.6609
Worker	0.2697	0.1584	1.8498	6.5900e-003	0.7377	4.7800e-003	0.7425	0.1957	4.4000e-003	0.2000		657.2493	657.2493	0.0141			657.6011
<b>Total</b>	<b>0.3173</b>	<b>1.7495</b>	<b>2.3243</b>	<b>0.0107</b>	<b>0.8463</b>	<b>8.2200e-003</b>	<b>0.8546</b>	<b>0.2269</b>	<b>7.6900e-003</b>	<b>0.2346</b>		<b>1,102.9705</b>	<b>1,102.9705</b>	<b>0.0517</b>			<b>1,104.2620</b>

**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	0.7923	10.7599	18.0957	0.0269		0.1120	0.1120		0.1120	0.1120	0.0000	2,553.3639	2,553.3639	0.6160			2,568.7643
<b>Total</b>	<b>0.7923</b>	<b>10.7599</b>	<b>18.0957</b>	<b>0.0269</b>		<b>0.1120</b>	<b>0.1120</b>		<b>0.1120</b>	<b>0.1120</b>	<b>0.0000</b>	<b>2,553.3639</b>	<b>2,553.3639</b>	<b>0.6160</b>			<b>2,568.7643</b>

**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	0.0476	1.5911	0.4745	4.0900e-003	0.1016	3.4400e-003	0.1051	0.0295	3.2900e-003	0.0328		445.7213	445.7213	0.0376			446.6609
Worker	0.2697	0.1584	1.8498	6.5900e-003	0.6800	4.7800e-003	0.6848	0.1815	4.4000e-003	0.1859		657.2493	657.2493	0.0141			657.6011
<b>Total</b>	<b>0.3173</b>	<b>1.7495</b>	<b>2.3243</b>	<b>0.0107</b>	<b>0.7816</b>	<b>8.2200e-003</b>	<b>0.7899</b>	<b>0.2110</b>	<b>7.6900e-003</b>	<b>0.2187</b>		<b>1,102.9705</b>	<b>1,102.9705</b>	<b>0.0517</b>			<b>1,104.2620</b>

**3.6 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342		1,804.5523	1,804.5523	0.5670			1,818.7270
Paving	0.1793					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>1.2732</b>	<b>10.8399</b>	<b>12.2603</b>	<b>0.0189</b>		<b>0.5788</b>	<b>0.5788</b>		<b>0.5342</b>	<b>0.5342</b>		<b>1,804.5523</b>	<b>1,804.5523</b>	<b>0.5670</b>			<b>1,818.7270</b>

**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	5.6000e-003	0.1872	0.0558	4.8000e-004	0.0128	4.0000e-004	0.0132	3.6800e-003	3.9000e-004	4.0600e-003		52.4378	52.4378	4.4200e-003			52.5483
Worker	0.0817	0.0480	0.5605	2.0000e-003	0.2236	1.4500e-003	0.2250	0.0593	1.3300e-003	0.0606		199.1664	199.1664	4.2600e-003			199.2731
<b>Total</b>	<b>0.0873</b>	<b>0.2352</b>	<b>0.6164</b>	<b>2.4800e-003</b>	<b>0.2363</b>	<b>1.8500e-003</b>	<b>0.2382</b>	<b>0.0630</b>	<b>1.7200e-003</b>	<b>0.0647</b>		<b>251.6042</b>	<b>251.6042</b>	<b>8.6800e-003</b>			<b>251.8214</b>

**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	0.3794	8.4013	13.9949	0.0189		0.0507	0.0507		0.0507	0.0507	0.0000	1,804.5523	1,804.5523	0.5670			1,818.7270
Paving	0.1793					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
<b>Total</b>	<b>0.5587</b>	<b>8.4013</b>	<b>13.9949</b>	<b>0.0189</b>		<b>0.0507</b>	<b>0.0507</b>		<b>0.0507</b>	<b>0.0507</b>	<b>0.0000</b>	<b>1,804.5523</b>	<b>1,804.5523</b>	<b>0.5670</b>			<b>1,818.7270</b>

**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	5.6000e-003	0.1872	0.0558	4.8000e-004	0.0120	4.0000e-004	0.0124	3.4800e-003	3.9000e-004	3.8600e-003		52.4378	52.4378	4.4200e-003		52.5483
Worker	0.0817	0.0480	0.5605	2.0000e-003	0.2061	1.4500e-003	0.2075	0.0550	1.3300e-003	0.0563		199.1664	199.1664	4.2600e-003		199.2731
<b>Total</b>	<b>0.0873</b>	<b>0.2352</b>	<b>0.6164</b>	<b>2.4800e-003</b>	<b>0.2180</b>	<b>1.8500e-003</b>	<b>0.2199</b>	<b>0.0585</b>	<b>1.7200e-003</b>	<b>0.0602</b>		<b>251.6042</b>	<b>251.6042</b>	<b>8.6800e-003</b>		<b>251.8214</b>

**3.7 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	39.8051					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
<b>Total</b>	<b>40.0240</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>



**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	0.0531	0.0312	0.3644	1.3000e-003	0.1453	9.4000e-004	0.1463	0.0385	8.7000e-004	0.0394		129.4582	129.4582	2.7700e-003		129.5275
<b>Total</b>	<b>0.0531</b>	<b>0.0312</b>	<b>0.3644</b>	<b>1.3000e-003</b>	<b>0.1453</b>	<b>9.4000e-004</b>	<b>0.1463</b>	<b>0.0385</b>	<b>8.7000e-004</b>	<b>0.0394</b>		<b>129.4582</b>	<b>129.4582</b>	<b>2.7700e-003</b>		<b>129.5275</b>

**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	39.8051					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0545	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>39.8596</b>	<b>1.0598</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

**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	0.0531	0.0312	0.3644	1.3000e-003	0.1339	9.4000e-004	0.1349	0.0358	8.7000e-004	0.0366		129.4582	129.4582	2.7700e-003		129.5275
<b>Total</b>	<b>0.0531</b>	<b>0.0312</b>	<b>0.3644</b>	<b>1.3000e-003</b>	<b>0.1339</b>	<b>9.4000e-004</b>	<b>0.1349</b>	<b>0.0358</b>	<b>8.7000e-004</b>	<b>0.0366</b>		<b>129.4582</b>	<b>129.4582</b>	<b>2.7700e-003</b>		<b>129.5275</b>

**3.7 Architectural Coating - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	39.8051					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>40.0097</b>	<b>1.4085</b>	<b>1.8136</b>	<b>2.9700e-003</b>		<b>0.0817</b>	<b>0.0817</b>		<b>0.0817</b>	<b>0.0817</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

**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	0.0503	0.0283	0.3395	1.2500e-003	0.1453	9.2000e-004	0.1462	0.0385	8.5000e-004	0.0394		124.6672	124.6672	2.5200e-003		124.7301
<b>Total</b>	<b>0.0503</b>	<b>0.0283</b>	<b>0.3395</b>	<b>1.2500e-003</b>	<b>0.1453</b>	<b>9.2000e-004</b>	<b>0.1462</b>	<b>0.0385</b>	<b>8.5000e-004</b>	<b>0.0394</b>		<b>124.6672</b>	<b>124.6672</b>	<b>2.5200e-003</b>		<b>124.7301</b>

**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	39.8051					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0545	1.0598	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0183		281.9062
<b>Total</b>	<b>39.8596</b>	<b>1.0598</b>	<b>1.8324</b>	<b>2.9700e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0183</b>		<b>281.9062</b>

### 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	0.0503	0.0283	0.3395	1.2500e-003	0.1339	9.2000e-004	0.1349	0.0358	8.5000e-004	0.0366		124.6672	124.6672	2.5200e-003		124.7301
<b>Total</b>	<b>0.0503</b>	<b>0.0283</b>	<b>0.3395</b>	<b>1.2500e-003</b>	<b>0.1339</b>	<b>9.2000e-004</b>	<b>0.1349</b>	<b>0.0358</b>	<b>8.5000e-004</b>	<b>0.0366</b>		<b>124.6672</b>	<b>124.6672</b>	<b>2.5200e-003</b>		<b>124.7301</b>

### 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	0.5994	0.8768	7.5480	0.0257	2.9721	0.0194	2.9915	0.7885	0.0179	0.8063		2,573.9576	2,573.9576	0.0784		2,575.9171
Unmitigated	0.5994	0.8768	7.5480	0.0257	2.9721	0.0194	2.9915	0.7885	0.0179	0.8063		2,573.9576	2,573.9576	0.0784		2,575.9171

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Condo/Townhouse	439.06	472.12	364.24	1,304,439	1,304,439
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
<b>Total</b>	<b>439.06</b>	<b>472.12</b>	<b>364.24</b>	<b>1,304,439</b>	<b>1,304,439</b>

### 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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	71	29	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.664531	0.051237	0.247964	0.020000	0.002418	0.000901	0.004017	0.002664	0.000000	0.000000	0.006268	0.000000	0.000000
Other Non-Asphalt Surfaces	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Parking Lot	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934

### 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

Exceed Title 24

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	0.0240	0.2051	0.0873	1.3100e-003		0.0166	0.0166		0.0166	0.0166		261.8504	261.8504	5.0200e-003	4.8000e-003	263.4065
NaturalGas Unmitigated	0.0302	0.2584	0.1100	1.6500e-003		0.0209	0.0209		0.0209	0.0209		329.8780	329.8780	6.3200e-003	6.0500e-003	331.8383

## 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					
Condo/Townhouse	2803.96	0.0302	0.2584	0.1100	1.6500e-003		0.0209	0.0209		0.0209	0.0209		329.8780	329.8780	6.3200e-003	6.0500e-003	331.8383
Other Non-Asphalt Surfaces	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
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
<b>Total</b>		<b>0.0302</b>	<b>0.2584</b>	<b>0.1100</b>	<b>1.6500e-003</b>		<b>0.0209</b>	<b>0.0209</b>		<b>0.0209</b>	<b>0.0209</b>		<b>329.8780</b>	<b>329.8780</b>	<b>6.3200e-003</b>	<b>6.0500e-003</b>	<b>331.8383</b>

### 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					
Condo/Townhouse	2.22573	0.0240	0.2051	0.0873	1.3100e-003		0.0166	0.0166		0.0166	0.0166		261.8504	261.8504	5.0200e-003	4.8000e-003	263.4065
Other Non-Asphalt Surfaces	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
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
<b>Total</b>		<b>0.0240</b>	<b>0.2051</b>	<b>0.0873</b>	<b>1.3100e-003</b>		<b>0.0166</b>	<b>0.0166</b>		<b>0.0166</b>	<b>0.0166</b>		<b>261.8504</b>	<b>261.8504</b>	<b>5.0200e-003</b>	<b>4.8000e-003</b>	<b>263.4065</b>

## 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	2.7161	0.0553	4.7993	2.5000e-004		0.0265	0.0265		0.0265	0.0265	0.0000	8.6355	8.6355	8.3600e-003	0.0000	8.8446
Unmitigated	2.7161	0.0553	4.7993	2.5000e-004		0.0265	0.0265		0.0265	0.0265	0.0000	8.6355	8.6355	8.3600e-003	0.0000	8.8446

## 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	0.2072					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3634					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1455	0.0553	4.7993	2.5000e-004		0.0265	0.0265		0.0265	0.0265		8.6355	8.6355	8.3600e-003		8.8446
<b>Total</b>	<b>2.7161</b>	<b>0.0553</b>	<b>4.7993</b>	<b>2.5000e-004</b>		<b>0.0265</b>	<b>0.0265</b>		<b>0.0265</b>	<b>0.0265</b>	<b>0.0000</b>	<b>8.6355</b>	<b>8.6355</b>	<b>8.3600e-003</b>	<b>0.0000</b>	<b>8.8446</b>

**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	0.2072					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3634					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1455	0.0553	4.7993	2.5000e-004		0.0265	0.0265		0.0265	0.0265		8.6355	8.6355	8.3600e-003		8.8446
<b>Total</b>	<b>2.7161</b>	<b>0.0553</b>	<b>4.7993</b>	<b>2.5000e-004</b>		<b>0.0265</b>	<b>0.0265</b>		<b>0.0265</b>	<b>0.0265</b>	<b>0.0000</b>	<b>8.6355</b>	<b>8.6355</b>	<b>8.3600e-003</b>	<b>0.0000</b>	<b>8.8446</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

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

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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



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**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**

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Residences at Nohl Ranch Existing Operational 2019 - Orange County, Annual

**Residences at Nohl Ranch Existing Operational 2019  
Orange County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	34.45	1000sqft	0.79	0.00	0
Parking Lot	54.97	1000sqft	1.26	54,973.00	0
Strip Mall	42.53	1000sqft	0.98	42,526.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2019
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Zeroed out Hardscape building sqft.

Vehicle Trips - Refer to CalEEMod inputs.

Energy Use -

Water And Wastewater - Refer to CalEEMod inputs.

Fleet Mix - Refer to CalEEMod inputs fleet mix.

Table Name	Column Name	Default Value	New Value
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tblFleetMix	HHD	0.02	2.4724e-003
tblFleetMix	LDA	0.55	0.66
tblFleetMix	LDT1	0.04	0.05
tblFleetMix	LDT2	0.21	0.25
tblFleetMix	LHD1	0.02	2.7590e-003
tblFleetMix	LHD2	5.7970e-003	9.1378e-004
tblFleetMix	MCY	4.8300e-003	6.2078e-003
tblFleetMix	MDV	0.12	0.02
tblFleetMix	MH	1.0410e-003	0.00
tblFleetMix	MHD	0.02	3.8548e-003
tblFleetMix	OBUS	1.6370e-003	0.00
tblFleetMix	SBUS	5.8300e-004	0.00
tblFleetMix	UBUS	1.6330e-003	0.00
tblLandUse	LandUseSquareFeet	34,450.00	0.00
tblLandUse	LandUseSquareFeet	54,970.00	54,973.00
tblLandUse	LandUseSquareFeet	42,530.00	42,526.00
tblVehicleTrips	DV_TP	40.00	13.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	45.00	87.00
tblVehicleTrips	ST_TR	42.04	26.22
tblVehicleTrips	SU_TR	20.43	26.22
tblVehicleTrips	WD_TR	44.32	23.59
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	3,150,304.34	3,909,150.00
tblWater	OutdoorWaterUseRate	1,930,831.69	977,288.00
tblWater	SepticTankPercent	10.33	0.00

## 2.0 Emissions Summary

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1779	2.0000e-005	1.7000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.2700e-003	3.2700e-003	1.0000e-005	0.0000	3.5000e-003
Energy	4.8000e-004	4.4000e-003	3.6900e-003	3.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	202.3099	202.3099	8.2500e-003	1.7700e-003	203.0450
Mobile	0.2872	0.4820	3.8613	0.0120	1.2040	9.1700e-003	1.2132	0.3198	8.5000e-003	0.3283	0.0000	1,086.2916	1,086.2916	0.0351	0.0000	1,087.1699
Waste						0.0000	0.0000		0.0000	0.0000	9.0656	0.0000	9.0656	0.5358	0.0000	22.4596
Water						0.0000	0.0000		0.0000	0.0000	1.3831	19.6777	21.0607	5.5700e-003	3.1800e-003	22.1464
<b>Total</b>	<b>0.4656</b>	<b>0.4864</b>	<b>3.8667</b>	<b>0.0120</b>	<b>1.2040</b>	<b>9.5100e-003</b>	<b>1.2135</b>	<b>0.3198</b>	<b>8.8400e-003</b>	<b>0.3287</b>	<b>10.4486</b>	<b>1,308.2825</b>	<b>1,318.7311</b>	<b>0.5847</b>	<b>4.9500e-003</b>	<b>1,334.8244</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1779	2.0000e-005	1.7000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.2700e-003	3.2700e-003	1.0000e-005	0.0000	3.5000e-003
Energy	4.8000e-004	4.4000e-003	3.6900e-003	3.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	202.3099	202.3099	8.2500e-003	1.7700e-003	203.0450
Mobile	0.2872	0.4820	3.8613	0.0120	1.2040	9.1700e-003	1.2132	0.3198	8.5000e-003	0.3283	0.0000	1,086.2916	1,086.2916	0.0351	0.0000	1,087.1699
Waste						0.0000	0.0000		0.0000	0.0000	9.0656	0.0000	9.0656	0.5358	0.0000	22.4596
Water						0.0000	0.0000		0.0000	0.0000	1.3831	19.6777	21.0607	5.5700e-003	3.1800e-003	22.1464
<b>Total</b>	<b>0.4656</b>	<b>0.4864</b>	<b>3.8667</b>	<b>0.0120</b>	<b>1.2040</b>	<b>9.5100e-003</b>	<b>1.2135</b>	<b>0.3198</b>	<b>8.8400e-003</b>	<b>0.3287</b>	<b>10.4486</b>	<b>1,308.2825</b>	<b>1,318.7311</b>	<b>0.5847</b>	<b>4.9500e-003</b>	<b>1,334.8244</b>

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

**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	0.2872	0.4820	3.8613	0.0120	1.2040	9.1700e-003	1.2132	0.3198	8.5000e-003	0.3283	0.0000	1,086.2916	1,086.2916	0.0351	0.0000	1,087.1699
Unmitigated	0.2872	0.4820	3.8613	0.0120	1.2040	9.1700e-003	1.2132	0.3198	8.5000e-003	0.3283	0.0000	1,086.2916	1,086.2916	0.0351	0.0000	1,087.1699

## 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	1,003.28	1,115.14	1,115.14	3,222,732	3,222,732
Total	1,003.28	1,115.14	1,115.14	3,222,732	3,222,732

## 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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	87	13	0

## 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.552373	0.044229	0.211123	0.119112	0.017503	0.005797	0.024455	0.015685	0.001637	0.001633	0.004830	0.000583	0.001041
Parking Lot	0.552373	0.044229	0.211123	0.119112	0.017503	0.005797	0.024455	0.015685	0.001637	0.001633	0.004830	0.000583	0.001041
Strip Mall	0.659102	0.052775	0.251916	0.020000	0.002759	0.000914	0.003855	0.002472	0.000000	0.000000	0.006208	0.000000	0.000000

## 5.0 Energy Detail

Historical Energy Use: Y

## 5.1 Mitigation Measures Energy

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

Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	197.5216	197.5216	8.1500e-003	1.6900e-003	198.2282
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	197.5216	197.5216	8.1500e-003	1.6900e-003	198.2282
NaturalGas Mitigated	4.8000e-004	4.4000e-003	3.6900e-003	3.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	4.7883	4.7883	9.0000e-005	9.0000e-005	4.8168
NaturalGas Unmitigated	4.8000e-004	4.4000e-003	3.6900e-003	3.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	4.7883	4.7883	9.0000e-005	9.0000e-005	4.8168

## 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					
Other Non-Asphalt Surfaces	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
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
Strip Mail	89729.9	4.8000e-004	4.4000e-003	3.6900e-003	3.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	4.7883	4.7883	9.0000e-005	9.0000e-005	4.8168
<b>Total</b>		<b>4.8000e-004</b>	<b>4.4000e-003</b>	<b>3.6900e-003</b>	<b>3.0000e-005</b>		<b>3.3000e-004</b>	<b>3.3000e-004</b>		<b>3.3000e-004</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>4.7883</b>	<b>4.7883</b>	<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>4.8168</b>

**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					
Other Non-Asphalt Surfaces	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
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
Strip Mall	89729.9	4.8000e-004	4.4000e-003	3.6900e-003	3.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	4.7883	4.7883	9.0000e-005	9.0000e-005	4.8168
<b>Total</b>		<b>4.8000e-004</b>	<b>4.4000e-003</b>	<b>3.6900e-003</b>	<b>3.0000e-005</b>		<b>3.3000e-004</b>	<b>3.3000e-004</b>		<b>3.3000e-004</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>4.7883</b>	<b>4.7883</b>	<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>4.8168</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	48376.2	15.4137	6.4000e-004	1.3000e-004	15.4689
Strip Mall	571549	182.1079	7.5200e-003	1.5600e-003	182.7594
<b>Total</b>		<b>197.5216</b>	<b>8.1600e-003</b>	<b>1.6900e-003</b>	<b>198.2282</b>



## Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	48376.2	15.4137	6.4000e-004	1.3000e-004	15.4689
Strip Mall	571549	182.1079	7.5200e-003	1.5600e-003	182.7594
<b>Total</b>		<b>197.5216</b>	<b>8.1600e-003</b>	<b>1.6900e-003</b>	<b>198.2282</b>

## 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	0.1779	2.0000e-005	1.7000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.2700e-003	3.2700e-003	1.0000e-005	0.0000	3.5000e-003
Unmitigated	0.1779	2.0000e-005	1.7000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.2700e-003	3.2700e-003	1.0000e-005	0.0000	3.5000e-003

## 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	0.0205						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Consumer Products	0.1572						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Landscaping	1.6000e-004	2.0000e-005	1.7000e-003	0.0000			1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.2700e-003	3.2700e-003	1.0000e-005	0.0000	3.5000e-003
<b>Total</b>	<b>0.1779</b>	<b>2.0000e-005</b>	<b>1.7000e-003</b>	<b>0.0000</b>			<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.2700e-003</b>	<b>3.2700e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.5000e-003</b>

### 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	0.0205						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Consumer Products	0.1572						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Landscaping	1.6000e-004	2.0000e-005	1.7000e-003	0.0000			1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.2700e-003	3.2700e-003	1.0000e-005	0.0000	3.5000e-003
<b>Total</b>	<b>0.1779</b>	<b>2.0000e-005</b>	<b>1.7000e-003</b>	<b>0.0000</b>			<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.2700e-003</b>	<b>3.2700e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.5000e-003</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	21.0607	5.5700e-003	3.1800e-003	22.1464
Unmitigated	21.0607	5.5700e-003	3.1800e-003	22.1464

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	3.90915 / 0.977288	21.0607	5.5700e-003	3.1800e-003	22.1464
<b>Total</b>		<b>21.0607</b>	<b>5.5700e-003</b>	<b>3.1800e-003</b>	<b>22.1464</b>

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	3.90915 / 0.977288	21.0607	5.5700e-003	3.1800e-003	22.1464
<b>Total</b>		<b>21.0607</b>	<b>5.5700e-003</b>	<b>3.1800e-003</b>	<b>22.1464</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	9.0656	0.5358	0.0000	22.4596
Unmitigated	9.0656	0.5358	0.0000	22.4596

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	44.66	9.0656	0.5358	0.0000	22.4596
<b>Total</b>		<b>9.0656</b>	<b>0.5358</b>	<b>0.0000</b>	<b>22.4596</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	44.66	9.0656	0.5358	0.0000	22.4596
<b>Total</b>		<b>9.0656</b>	<b>0.5358</b>	<b>0.0000</b>	<b>22.4596</b>

## 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

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### 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

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Residences at Nohl Ranch Existing Operational 2019 - Orange County, Summer

**Residences at Nohl Ranch Existing Operational 2019  
Orange County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	34.45	1000sqft	0.79	0.00	0
Parking Lot	54.97	1000sqft	1.26	54,973.00	0
Strip Mall	42.53	1000sqft	0.98	42,526.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2019
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Zeroed out Hardscape building sqft.

Vehicle Trips - Refer to CalEEMod inputs.

Energy Use -

Water And Wastewater - Refer to CalEEMod inputs.

Fleet Mix - Refer to CalEEMod inputs fleet mix.

Table Name	Column Name	Default Value	New Value
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tbFleetMix	HHD	0.02	2.4724e-003
tbFleetMix	LDA	0.55	0.66
tbFleetMix	LDT1	0.04	0.05
tbFleetMix	LDT2	0.21	0.25
tbFleetMix	LHD1	0.02	2.7590e-003
tbFleetMix	LHD2	5.7970e-003	9.1378e-004
tbFleetMix	MCY	4.8300e-003	6.2078e-003
tbFleetMix	MDV	0.12	0.02
tbFleetMix	MH	1.0410e-003	0.00
tbFleetMix	MHD	0.02	3.8548e-003
tbFleetMix	OBUS	1.6370e-003	0.00
tbFleetMix	SBUS	5.8300e-004	0.00
tbFleetMix	UBUS	1.6330e-003	0.00
tbLandUse	LandUseSquareFeet	34,450.00	0.00
tbLandUse	LandUseSquareFeet	54,970.00	54,973.00
tbLandUse	LandUseSquareFeet	42,530.00	42,526.00
tbVehicleTrips	DV_TP	40.00	13.00
tbVehicleTrips	PB_TP	15.00	0.00
tbVehicleTrips	PR_TP	45.00	87.00
tbVehicleTrips	ST_TR	42.04	26.22
tbVehicleTrips	SU_TR	20.43	26.22
tbVehicleTrips	WD_TR	44.32	23.59
tbWater	AerobicPercent	87.46	100.00
tbWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tbWater	IndoorWaterUseRate	3,150,304.34	3,909,150.00
tbWater	OutdoorWaterUseRate	1,930,831.69	977,288.00
tbWater	SepticTankPercent	10.33	0.00

## 2.0 Emissions Summary



**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.9750	1.3000e-004	0.0136	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0289	0.0289	8.0000e-005		0.0308
Energy	2.6500e-003	0.0241	0.0203	1.4000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003		28.9218	28.9218	5.5000e-004	5.3000e-004	29.0937
Mobile	1.7906	2.6186	23.6075	0.0738	7.2555	0.0543	7.3099	1.9248	0.0503	1.9751		7,373.7606	7,373.7606	0.2326		7,379.5744
<b>Total</b>	<b>2.7682</b>	<b>2.6428</b>	<b>23.6413</b>	<b>0.0740</b>	<b>7.2555</b>	<b>0.0562</b>	<b>7.3117</b>	<b>1.9248</b>	<b>0.0522</b>	<b>1.9770</b>		<b>7,402.7113</b>	<b>7,402.7113</b>	<b>0.2332</b>	<b>5.3000e-004</b>	<b>7,408.6988</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.9750	1.3000e-004	0.0136	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0289	0.0289	8.0000e-005		0.0308
Energy	2.6500e-003	0.0241	0.0203	1.4000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003		28.9218	28.9218	5.5000e-004	5.3000e-004	29.0937
Mobile	1.7906	2.6186	23.6075	0.0738	7.2555	0.0543	7.3099	1.9248	0.0503	1.9751		7,373.7606	7,373.7606	0.2326		7,379.5744
<b>Total</b>	<b>2.7682</b>	<b>2.6428</b>	<b>23.6413</b>	<b>0.0740</b>	<b>7.2555</b>	<b>0.0562</b>	<b>7.3117</b>	<b>1.9248</b>	<b>0.0522</b>	<b>1.9770</b>		<b>7,402.7113</b>	<b>7,402.7113</b>	<b>0.2332</b>	<b>5.3000e-004</b>	<b>7,408.6988</b>

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

## 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	1.7906	2.6186	23.6075	0.0738	7.2555	0.0543	7.3099	1.9248	0.0503	1.9751		7,373.7606	7,373.7606	0.2326		7,379.5744
Unmitigated	1.7906	2.6186	23.6075	0.0738	7.2555	0.0543	7.3099	1.9248	0.0503	1.9751		7,373.7606	7,373.7606	0.2326		7,379.5744

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	1,003.28	1,115.14	1,115.14	3,222,732	3,222,732
Total	1,003.28	1,115.14	1,115.14	3,222,732	3,222,732

### 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
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	87	13	0

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.552373	0.044229	0.211123	0.119112	0.017503	0.005797	0.024455	0.015685	0.001637	0.001633	0.004830	0.000583	0.001041
Parking Lot	0.552373	0.044229	0.211123	0.119112	0.017503	0.005797	0.024455	0.015685	0.001637	0.001633	0.004830	0.000583	0.001041
Strip Mall	0.659102	0.052775	0.251916	0.020000	0.002759	0.000914	0.003855	0.002472	0.000000	0.000000	0.006208	0.000000	0.000000

#### 5.0 Energy Detail

Historical Energy Use: Y

#### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
NaturalGas Mitigated	2.6500e-003	0.0241	0.0203	1.4000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003			28.9218	28.9218	5.5000e-004	5.3000e-004	29.0937
NaturalGas Unmitigated	2.6500e-003	0.0241	0.0203	1.4000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003			28.9218	28.9218	5.5000e-004	5.3000e-004	29.0937

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	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
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
Strip Mall	245.835	2.6500e-003	0.0241	0.0203	1.4000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003		28.9218	28.9218	5.5000e-004	5.3000e-004	29.0937
<b>Total</b>		<b>2.6500e-003</b>	<b>0.0241</b>	<b>0.0203</b>	<b>1.4000e-004</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>		<b>28.9218</b>	<b>28.9218</b>	<b>5.5000e-004</b>	<b>5.3000e-004</b>	<b>29.0937</b>

### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	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
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
Strip Mall	0.245835	2.6500e-003	0.0241	0.0203	1.4000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003		28.9218	28.9218	5.5000e-004	5.3000e-004	29.0937
<b>Total</b>		<b>2.6500e-003</b>	<b>0.0241</b>	<b>0.0203</b>	<b>1.4000e-004</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>		<b>28.9218</b>	<b>28.9218</b>	<b>5.5000e-004</b>	<b>5.3000e-004</b>	<b>29.0937</b>

## 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	0.9750	1.3000e-004	0.0136	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0289	0.0289	8.0000e-005		0.0308
Unmitigated	0.9750	1.3000e-004	0.0136	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0289	0.0289	8.0000e-005		0.0308

### 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	0.1122					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8615					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.2900e-003	1.3000e-004	0.0136	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0289	0.0289	8.0000e-005		0.0308
<b>Total</b>	<b>0.9750</b>	<b>1.3000e-004</b>	<b>0.0136</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>0.0289</b>	<b>0.0289</b>	<b>8.0000e-005</b>		<b>0.0308</b>

**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	0.1122					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8615					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.2900e-003	1.3000e-004	0.0136	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005			0.0289	0.0289	8.0000e-005	0.0308
<b>Total</b>	<b>0.9750</b>	<b>1.3000e-004</b>	<b>0.0136</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>			<b>0.0289</b>	<b>0.0289</b>	<b>8.0000e-005</b>	<b>0.0308</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

**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**

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Residences at Nohl Ranch Existing Operational 2019 - Orange County, Winter

**Residences at Nohl Ranch Existing Operational 2019  
Orange County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	34.45	1000sqft	0.79	0.00	0
Parking Lot	54.97	1000sqft	1.26	54,973.00	0
Strip Mall	42.53	1000sqft	0.98	42,526.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2019
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics -

Land Use - Zeroed out Hardscape building sqft.

Vehicle Trips - Refer to CalEEMod inputs.

Energy Use -

Water And Wastewater - Refer to CalEEMod inputs.

Fleet Mix - Refer to CalEEMod inputs fleet mix.

Table Name	Column Name	Default Value	New Value
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tbFleetMix	HHD	0.02	2.4724e-003
tbFleetMix	LDA	0.55	0.66
tbFleetMix	LDT1	0.04	0.05
tbFleetMix	LDT2	0.21	0.25
tbFleetMix	LHD1	0.02	2.7590e-003
tbFleetMix	LHD2	5.7970e-003	9.1378e-004
tbFleetMix	MCY	4.8300e-003	6.2078e-003
tbFleetMix	MDV	0.12	0.02
tbFleetMix	MH	1.0410e-003	0.00
tbFleetMix	MHD	0.02	3.8548e-003
tbFleetMix	OBUS	1.6370e-003	0.00
tbFleetMix	SBUS	5.8300e-004	0.00
tbFleetMix	UBUS	1.6330e-003	0.00
tbLandUse	LandUseSquareFeet	34,450.00	0.00
tbLandUse	LandUseSquareFeet	54,970.00	54,973.00
tbLandUse	LandUseSquareFeet	42,530.00	42,526.00
tbVehicleTrips	DV_TP	40.00	13.00
tbVehicleTrips	PB_TP	15.00	0.00
tbVehicleTrips	PR_TP	45.00	87.00
tbVehicleTrips	ST_TR	42.04	26.22
tbVehicleTrips	SU_TR	20.43	26.22
tbVehicleTrips	WD_TR	44.32	23.59
tbWater	AerobicPercent	87.46	100.00
tbWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tbWater	IndoorWaterUseRate	3,150,304.34	3,909,150.00
tbWater	OutdoorWaterUseRate	1,930,831.69	977,288.00
tbWater	SepticTankPercent	10.33	0.00

## 2.0 Emissions Summary

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.9750	1.3000e-004	0.0136	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0289	0.0289	8.0000e-005		0.0308
Energy	2.6500e-003	0.0241	0.0203	1.4000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003		28.9218	28.9218	5.5000e-004	5.3000e-004	29.0937
Mobile	1.7577	2.7961	22.4982	0.0700	7.2555	0.0544	7.3099	1.9248	0.0504	1.9752		6,991.2022	6,991.2022	0.2281		6,996.9053
<b>Total</b>	<b>2.7354</b>	<b>2.8203</b>	<b>22.5320</b>	<b>0.0701</b>	<b>7.2555</b>	<b>0.0563</b>	<b>7.3118</b>	<b>1.9248</b>	<b>0.0523</b>	<b>1.9771</b>		<b>7,020.1529</b>	<b>7,020.1529</b>	<b>0.2288</b>	<b>5.3000e-004</b>	<b>7,026.0298</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.9750	1.3000e-004	0.0136	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0289	0.0289	8.0000e-005		0.0308
Energy	2.6500e-003	0.0241	0.0203	1.4000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003		28.9218	28.9218	5.5000e-004	5.3000e-004	29.0937
Mobile	1.7577	2.7961	22.4982	0.0700	7.2555	0.0544	7.3099	1.9248	0.0504	1.9752		6,991.2022	6,991.2022	0.2281		6,996.9053
<b>Total</b>	<b>2.7354</b>	<b>2.8203</b>	<b>22.5320</b>	<b>0.0701</b>	<b>7.2555</b>	<b>0.0563</b>	<b>7.3118</b>	<b>1.9248</b>	<b>0.0523</b>	<b>1.9771</b>		<b>7,020.1529</b>	<b>7,020.1529</b>	<b>0.2288</b>	<b>5.3000e-004</b>	<b>7,026.0298</b>

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

## 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	1.7577	2.7961	22.4982	0.0700	7.2555	0.0544	7.3099	1.9248	0.0504	1.9752		6,991.2022	6,991.2022	0.2281		6,996.9053
Unmitigated	1.7577	2.7961	22.4982	0.0700	7.2555	0.0544	7.3099	1.9248	0.0504	1.9752		6,991.2022	6,991.2022	0.2281		6,996.9053

### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	1,003.28	1,115.14	1,115.14	3,222,732	3,222,732
Total	1,003.28	1,115.14	1,115.14	3,222,732	3,222,732

### 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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	87	13	0

### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.552373	0.044229	0.211123	0.119112	0.017503	0.005797	0.024455	0.015685	0.001637	0.001633	0.004830	0.000583	0.001041
Parking Lot	0.552373	0.044229	0.211123	0.119112	0.017503	0.005797	0.024455	0.015685	0.001637	0.001633	0.004830	0.000583	0.001041
Strip Mall	0.659102	0.052775	0.251916	0.020000	0.002759	0.000914	0.003855	0.002472	0.000000	0.000000	0.006208	0.000000	0.000000

## 5.0 Energy Detail

Historical Energy Use: Y

### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	2.6500e-003	0.0241	0.0203	1.4000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003		28.9218	28.9218	5.5000e-004	5.3000e-004	29.0937
NaturalGas Unmitigated	2.6500e-003	0.0241	0.0203	1.4000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003		28.9218	28.9218	5.5000e-004	5.3000e-004	29.0937

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	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
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
Strip Mall	245.835	2.6500e-003	0.0241	0.0203	1.4000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003		28.9218	28.9218	5.5000e-004	5.3000e-004	29.0937
<b>Total</b>		<b>2.6500e-003</b>	<b>0.0241</b>	<b>0.0203</b>	<b>1.4000e-004</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>		<b>28.9218</b>	<b>28.9218</b>	<b>5.5000e-004</b>	<b>5.3000e-004</b>	<b>29.0937</b>

**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					
Other Non-Asphalt Surfaces	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
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
Strip Mall	0.245835	2.6500e-003	0.0241	0.0203	1.4000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003		28.9218	28.9218	5.5000e-004	5.3000e-004	29.0937
<b>Total</b>		<b>2.6500e-003</b>	<b>0.0241</b>	<b>0.0203</b>	<b>1.4000e-004</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>		<b>28.9218</b>	<b>28.9218</b>	<b>5.5000e-004</b>	<b>5.3000e-004</b>	<b>29.0937</b>

**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	0.9750	1.3000e-004	0.0136	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0289	0.0289	8.0000e-005		0.0308
Unmitigated	0.9750	1.3000e-004	0.0136	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0289	0.0289	8.0000e-005		0.0308

## 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	0.1122					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8615					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.2900e-003	1.3000e-004	0.0136	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0289	0.0289	8.0000e-005		0.0308
<b>Total</b>	<b>0.9750</b>	<b>1.3000e-004</b>	<b>0.0136</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>0.0289</b>	<b>0.0289</b>	<b>8.0000e-005</b>		<b>0.0308</b>

### 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	0.1122					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8615					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.2900e-003	1.3000e-004	0.0136	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0289	0.0289	8.0000e-005		0.0308
<b>Total</b>	<b>0.9750</b>	<b>1.3000e-004</b>	<b>0.0136</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>0.0289</b>	<b>0.0289</b>	<b>8.0000e-005</b>		<b>0.0308</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

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### 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

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Residences at Nohl Ranch Existing Operational 2022 - Orange County, Annual

**Residences at Nohl Ranch Existing Operational 2022  
Orange County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	34.49	1000sqft	0.79	0.00	0
Parking Lot	54.97	1000sqft	1.26	54,970.00	0
Strip Mall	42.53	1000sqft	0.98	42,526.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

- Project Characteristics -
- Land Use - Zeroed out Hardscape building sqft.
- Construction Phase -
- Vehicle Trips - Refer to CalEEMod inputs.
- Energy Use -
- Water And Wastewater - Refer to CalEEMod inputs.
- Fleet Mix - Refer to CalEEMod inputs fleet mix.



Woodstoves -

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblFleetMix	HHD	0.02	2.6635e-003
tblFleetMix	LDA	0.56	0.66
tblFleetMix	LDT1	0.04	0.05
tblFleetMix	LDT2	0.21	0.25
tblFleetMix	LHD1	0.02	2.4178e-003
tblFleetMix	LHD2	5.7950e-003	9.0133e-004
tblFleetMix	MCY	4.9260e-003	6.2680e-003
tblFleetMix	MDV	0.11	0.02
tblFleetMix	MH	9.3400e-004	0.00
tblFleetMix	MHD	0.03	4.0173e-003
tblFleetMix	OBUS	1.7470e-003	0.00
tblFleetMix	SBUS	5.9400e-004	0.00
tblFleetMix	UBUS	1.5420e-003	0.00
tblLandUse	LandUseSquareFeet	34,490.00	0.00
tblLandUse	LandUseSquareFeet	42,530.00	42,526.00
tblVehicleTrips	DV_TP	40.00	13.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	45.00	87.00
tblVehicleTrips	ST_TR	42.04	26.22
tblVehicleTrips	SU_TR	20.43	26.22
tblVehicleTrips	WD_TR	44.32	23.59
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	3,150,304.34	3,909,150.00
tblWater	OutdoorWaterUseRate	1,930,831.69	977,288.00
tblWater	SepticTankPercent	10.33	0.00

## 2.0 Emissions Summary

### 2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1779	2.0000e-005	1.6900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.2800e-003	3.2800e-003	1.0000e-005	0.0000	3.4900e-003
Energy	4.8000e-004	4.4000e-003	3.6900e-003	3.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	202.3091	202.3091	8.2500e-003	1.7700e-003	203.0442
Mobile	0.2347	0.3658	3.1462	0.0108	1.2040	7.9500e-003	1.2120	0.3199	7.3300e-003	0.3272	0.0000	975.3608	975.3608	0.0293	0.0000	976.0941
Waste						0.0000	0.0000		0.0000	0.0000	9.0656	0.0000	9.0656	0.5358	0.0000	22.4596
Water						0.0000	0.0000		0.0000	0.0000	1.3831	19.6777	21.0607	5.5700e-003	3.1800e-003	22.1464
<b>Total</b>	<b>0.4130</b>	<b>0.3702</b>	<b>3.1516</b>	<b>0.0108</b>	<b>1.2040</b>	<b>8.2900e-003</b>	<b>1.2123</b>	<b>0.3199</b>	<b>7.6700e-003</b>	<b>0.3275</b>	<b>10.4486</b>	<b>1,197.3509</b>	<b>1,207.7995</b>	<b>0.5789</b>	<b>4.9500e-003</b>	<b>1,223.7477</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1779	2.0000e-005	1.6900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.2800e-003	3.2800e-003	1.0000e-005	0.0000	3.4900e-003
Energy	4.8000e-004	4.4000e-003	3.6900e-003	3.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	202.3091	202.3091	8.2500e-003	1.7700e-003	203.0442
Mobile	0.2347	0.3658	3.1462	0.0108	1.2040	7.9500e-003	1.2120	0.3199	7.3300e-003	0.3272	0.0000	975.3608	975.3608	0.0293	0.0000	976.0941
Waste						0.0000	0.0000		0.0000	0.0000	9.0656	0.0000	9.0656	0.5358	0.0000	22.4596
Water						0.0000	0.0000		0.0000	0.0000	1.3831	19.6777	21.0607	5.5700e-003	3.1800e-003	22.1464
<b>Total</b>	<b>0.4130</b>	<b>0.3702</b>	<b>3.1516</b>	<b>0.0108</b>	<b>1.2040</b>	<b>8.2900e-003</b>	<b>1.2123</b>	<b>0.3199</b>	<b>7.6700e-003</b>	<b>0.3275</b>	<b>10.4486</b>	<b>1,197.3509</b>	<b>1,207.7995</b>	<b>0.5789</b>	<b>4.9500e-003</b>	<b>1,223.7477</b>

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

**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	0.2347	0.3658	3.1462	0.0108	1.2040	7.9500e-003	1.2120	0.3199	7.3300e-003	0.3272	0.0000	975.3608	975.3608	0.0293	0.0000	976.0941
Unmitigated	0.2347	0.3658	3.1462	0.0108	1.2040	7.9500e-003	1.2120	0.3199	7.3300e-003	0.3272	0.0000	975.3608	975.3608	0.0293	0.0000	976.0941

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	1,003.28	1,115.14	1,115.14	3,222,732	3,222,732
<b>Total</b>	<b>1,003.28</b>	<b>1,115.14</b>	<b>1,115.14</b>	<b>3,222,732</b>	<b>3,222,732</b>

#### 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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	87	13	0

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Parking Lot	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Strip Mall	0.664531	0.051237	0.247964	0.020000	0.002418	0.000901	0.004017	0.002664	0.000000	0.000000	0.006268	0.000000	0.000000

#### 5.0 Energy Detail

Historical Energy Use: Y

#### 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	197.5208	197.5208	8.1500e-003	1.6900e-003	198.2274
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	197.5208	197.5208	8.1500e-003	1.6900e-003	198.2274
NaturalGas Mitigated	4.8000e-004	4.4000e-003	3.6900e-003	3.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	4.7883	4.7883	9.0000e-005	9.0000e-005	4.8168
NaturalGas Unmitigated	4.8000e-004	4.4000e-003	3.6900e-003	3.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	4.7883	4.7883	9.0000e-005	9.0000e-005	4.8168

**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					
Other Non-Asphalt Surfaces	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
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
Strip Mall	89729.9	4.8000e-004	4.4000e-003	3.6900e-003	3.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	4.7883	4.7883	9.0000e-005	9.0000e-005	4.8168
<b>Total</b>		<b>4.8000e-004</b>	<b>4.4000e-003</b>	<b>3.6900e-003</b>	<b>3.0000e-005</b>		<b>3.3000e-004</b>	<b>3.3000e-004</b>		<b>3.3000e-004</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>4.7883</b>	<b>4.7883</b>	<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>4.8168</b>

**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					
Other Non-Asphalt Surfaces	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
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
Strip Mall	89729.9	4.8000e-004	4.4000e-003	3.6900e-003	3.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	4.7883	4.7883	9.0000e-005	9.0000e-005	4.8168
<b>Total</b>		<b>4.8000e-004</b>	<b>4.4000e-003</b>	<b>3.6900e-003</b>	<b>3.0000e-005</b>		<b>3.3000e-004</b>	<b>3.3000e-004</b>		<b>3.3000e-004</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>4.7883</b>	<b>4.7883</b>	<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>4.8168</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	48373.6	15.4129	6.4000e-004	1.3000e-004	15.4680
Strip Mall	571549	182.1079	7.5200e-003	1.5600e-003	182.7594
<b>Total</b>		<b>197.5208</b>	<b>8.1600e-003</b>	<b>1.6900e-003</b>	<b>198.2274</b>

## Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	48373.6	15.4129	6.4000e-004	1.3000e-004	15.4680
Strip Mall	571549	182.1079	7.5200e-003	1.5600e-003	182.7594
<b>Total</b>		<b>197.5208</b>	<b>8.1600e-003</b>	<b>1.6900e-003</b>	<b>198.2274</b>

## 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	0.1779	2.0000e-005	1.6900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.2800e-003	3.2800e-003	1.0000e-005	0.0000	3.4900e-003
Unmitigated	0.1779	2.0000e-005	1.6900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.2800e-003	3.2800e-003	1.0000e-005	0.0000	3.4900e-003

## 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	0.0205					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1572					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.6000e-004	2.0000e-005	1.6900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.2800e-003	3.2800e-003	1.0000e-005	0.0000	3.4900e-003
<b>Total</b>	<b>0.1779</b>	<b>2.0000e-005</b>	<b>1.6900e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.2800e-003</b>	<b>3.2800e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.4900e-003</b>

### 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	0.0205					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1572					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.6000e-004	2.0000e-005	1.6900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.2800e-003	3.2800e-003	1.0000e-005	0.0000	3.4900e-003
<b>Total</b>	<b>0.1779</b>	<b>2.0000e-005</b>	<b>1.6900e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.2800e-003</b>	<b>3.2800e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>3.4900e-003</b>

## 7.0 Water Detail

### 7.1 Mitigation Measures Water



	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	21.0607	5.5700e-003	3.1800e-003	22.1464
Unmitigated	21.0607	5.5700e-003	3.1800e-003	22.1464

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	3.90915 / 0.977288	21.0607	5.5700e-003	3.1800e-003	22.1464
<b>Total</b>		<b>21.0607</b>	<b>5.5700e-003</b>	<b>3.1800e-003</b>	<b>22.1464</b>

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	3.90915 / 0.977288	21.0607	5.5700e-003	3.1800e-003	22.1464
<b>Total</b>		<b>21.0607</b>	<b>5.5700e-003</b>	<b>3.1800e-003</b>	<b>22.1464</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	9.0656	0.5358	0.0000	22.4596
Unmitigated	9.0656	0.5358	0.0000	22.4596

## 8.2 Waste by Land Use

### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	44.66	9.0656	0.5358	0.0000	22.4596
<b>Total</b>		<b>9.0656</b>	<b>0.5358</b>	<b>0.0000</b>	<b>22.4596</b>

### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	44.66	9.0656	0.5358	0.0000	22.4596
<b>Total</b>		<b>9.0656</b>	<b>0.5358</b>	<b>0.0000</b>	<b>22.4596</b>

## 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

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### 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

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Residences at Nohl Ranch Existing Operational 2022 - Orange County, Summer

**Residences at Nohl Ranch Existing Operational 2022  
Orange County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	34.49	1000sqft	0.79	0.00	0
Parking Lot	54.97	1000sqft	1.26	54,970.00	0
Strip Mall	42.53	1000sqft	0.98	42,526.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

- Project Characteristics -
- Land Use - Zeroed out Hardscape building sqft.
- Construction Phase -
- Vehicle Trips - Refer to CalEEMod inputs.
- Energy Use -
- Water And Wastewater - Refer to CalEEMod inputs.
- Fleet Mix - Refer to CalEEMod inputs fleet mix.

Woodstoves -

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblFleetMix	HHD	0.02	2.6635e-003
tblFleetMix	LDA	0.56	0.66
tblFleetMix	LDT1	0.04	0.05
tblFleetMix	LDT2	0.21	0.25
tblFleetMix	LHD1	0.02	2.4178e-003
tblFleetMix	LHD2	5.7950e-003	9.0133e-004
tblFleetMix	MCY	4.9260e-003	6.2680e-003
tblFleetMix	MDV	0.11	0.02
tblFleetMix	MH	9.3400e-004	0.00
tblFleetMix	MHD	0.03	4.0173e-003
tblFleetMix	OBUS	1.7470e-003	0.00
tblFleetMix	SBUS	5.9400e-004	0.00
tblFleetMix	UBUS	1.5420e-003	0.00
tblLandUse	LandUseSquareFeet	34,490.00	0.00
tblLandUse	LandUseSquareFeet	42,530.00	42,526.00
tblVehicleTrips	DV_TP	40.00	13.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	45.00	87.00
tblVehicleTrips	ST_TR	42.04	26.22
tblVehicleTrips	SU_TR	20.43	26.22
tblVehicleTrips	WD_TR	44.32	23.59
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	3,150,304.34	3,909,150.00
tblWater	OutdoorWaterUseRate	1,930,831.69	977,288.00
tblWater	SepticTankPercent	10.33	0.00

## 2.0 Emissions Summary

### 2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.9749	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0289	0.0289	8.0000e-005		0.0308
Energy	2.6500e-003	0.0241	0.0203	1.4000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003		28.9218	28.9218	5.5000e-004	5.3000e-004	29.0937
Mobile	1.4655	1.9924	19.2883	0.0662	7.2557	0.0471	7.3028	1.9248	0.0434	1.9683		6,619.0184	6,619.0184	0.1939		6,623.8648
<b>Total</b>	<b>2.4431</b>	<b>2.0166</b>	<b>19.3221</b>	<b>0.0664</b>	<b>7.2557</b>	<b>0.0490</b>	<b>7.3047</b>	<b>1.9248</b>	<b>0.0453</b>	<b>1.9702</b>		<b>6,647.9691</b>	<b>6,647.9691</b>	<b>0.1945</b>	<b>5.3000e-004</b>	<b>6,652.9892</b>

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.9749	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0289	0.0289	8.0000e-005		0.0308
Energy	2.6500e-003	0.0241	0.0203	1.4000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003		28.9218	28.9218	5.5000e-004	5.3000e-004	29.0937
Mobile	1.4655	1.9924	19.2883	0.0662	7.2557	0.0471	7.3028	1.9248	0.0434	1.9683		6,619.0184	6,619.0184	0.1939		6,623.8648
<b>Total</b>	<b>2.4431</b>	<b>2.0166</b>	<b>19.3221</b>	<b>0.0664</b>	<b>7.2557</b>	<b>0.0490</b>	<b>7.3047</b>	<b>1.9248</b>	<b>0.0453</b>	<b>1.9702</b>		<b>6,647.9691</b>	<b>6,647.9691</b>	<b>0.1945</b>	<b>5.3000e-004</b>	<b>6,652.9892</b>

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

#### 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	1.4655	1.9924	19.2883	0.0662	7.2557	0.0471	7.3028	1.9248	0.0434	1.9683		6,619.0184	6,619.0184	0.1939		6,623.8648
Unmitigated	1.4655	1.9924	19.2883	0.0662	7.2557	0.0471	7.3028	1.9248	0.0434	1.9683		6,619.0184	6,619.0184	0.1939		6,623.8648

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	1,003.28	1,115.14	1,115.14	3,222,732	3,222,732
Total	1,003.28	1,115.14	1,115.14	3,222,732	3,222,732

#### 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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	87	13	0



#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Parking Lot	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Strip Mall	0.664531	0.051237	0.247964	0.020000	0.002418	0.000901	0.004017	0.002664	0.000000	0.000000	0.006268	0.000000	0.000000

#### 5.0 Energy Detail

Historical Energy Use: Y

#### 5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
NaturalGas Mitigated	2.6500e-003	0.0241	0.0203	1.4000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003			28.9218	28.9218	5.5000e-004	5.3000e-004	29.0937
NaturalGas Unmitigated	2.6500e-003	0.0241	0.0203	1.4000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003			28.9218	28.9218	5.5000e-004	5.3000e-004	29.0937

## 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					
Other Non-Asphalt Surfaces	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
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
Strip Mall	245.835	2.6500e-003	0.0241	0.0203	1.4000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003		28.9218	28.9218	5.5000e-004	5.3000e-004	29.0937
<b>Total</b>		<b>2.6500e-003</b>	<b>0.0241</b>	<b>0.0203</b>	<b>1.4000e-004</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>		<b>28.9218</b>	<b>28.9218</b>	<b>5.5000e-004</b>	<b>5.3000e-004</b>	<b>29.0937</b>

### 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					
Other Non-Asphalt Surfaces	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
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
Strip Mall	0.245835	2.6500e-003	0.0241	0.0203	1.4000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003		28.9218	28.9218	5.5000e-004	5.3000e-004	29.0937
<b>Total</b>		<b>2.6500e-003</b>	<b>0.0241</b>	<b>0.0203</b>	<b>1.4000e-004</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>		<b>28.9218</b>	<b>28.9218</b>	<b>5.5000e-004</b>	<b>5.3000e-004</b>	<b>29.0937</b>

## 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	0.9749	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0289	0.0289	8.0000e-005		0.0308
Unmitigated	0.9749	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0289	0.0289	8.0000e-005		0.0308

## 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	0.1122					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8615					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.2600e-003	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0289	0.0289	8.0000e-005		0.0308
<b>Total</b>	<b>0.9749</b>	<b>1.2000e-004</b>	<b>0.0135</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>0.0289</b>	<b>0.0289</b>	<b>8.0000e-005</b>		<b>0.0308</b>

**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	0.1122					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8615					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.2600e-003	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0289	0.0289	8.0000e-005		0.0308
<b>Total</b>	<b>0.9749</b>	<b>1.2000e-004</b>	<b>0.0135</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>0.0289</b>	<b>0.0289</b>	<b>8.0000e-005</b>		<b>0.0308</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

**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**

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Residences at Nohl Ranch Existing Operational 2022 - Orange County, Winter

**Residences at Nohl Ranch Existing Operational 2022  
Orange County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	34.49	1000sqft	0.79	0.00	0
Parking Lot	54.97	1000sqft	1.26	54,970.00	0
Strip Mall	42.53	1000sqft	0.98	42,526.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	8			<b>Operational Year</b>	2022
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

- Project Characteristics -
- Land Use - Zeroed out Hardscape building sqft.
- Construction Phase -
- Vehicle Trips - Refer to CalEEMod inputs.
- Energy Use -
- Water And Wastewater - Refer to CalEEMod inputs.
- Fleet Mix - Refer to CalEEMod inputs fleet mix.

Woodstoves -

Construction Off-road Equipment Mitigation -

Table Name	Column Name	Default Value	New Value
tblFleetMix	HHD	0.02	2.6635e-003
tblFleetMix	LDA	0.56	0.66
tblFleetMix	LDT1	0.04	0.05
tblFleetMix	LDT2	0.21	0.25
tblFleetMix	LHD1	0.02	2.4178e-003
tblFleetMix	LHD2	5.7950e-003	9.0133e-004
tblFleetMix	MCY	4.9260e-003	6.2680e-003
tblFleetMix	MDV	0.11	0.02
tblFleetMix	MH	9.3400e-004	0.00
tblFleetMix	MHD	0.03	4.0173e-003
tblFleetMix	OBUS	1.7470e-003	0.00
tblFleetMix	SBUS	5.9400e-004	0.00
tblFleetMix	UBUS	1.5420e-003	0.00
tblLandUse	LandUseSquareFeet	34,490.00	0.00
tblLandUse	LandUseSquareFeet	42,530.00	42,526.00
tblVehicleTrips	DV_TP	40.00	13.00
tblVehicleTrips	PB_TP	15.00	0.00
tblVehicleTrips	PR_TP	45.00	87.00
tblVehicleTrips	ST_TR	42.04	26.22
tblVehicleTrips	SU_TR	20.43	26.22
tblVehicleTrips	WD_TR	44.32	23.59
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	3,150,304.34	3,909,150.00
tblWater	OutdoorWaterUseRate	1,930,831.69	977,288.00
tblWater	SepticTankPercent	10.33	0.00

## 2.0 Emissions Summary

### 2.2 Overall Operational Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.9749	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0289	0.0289	8.0000e-005		0.0308
Energy	2.6500e-003	0.0241	0.0203	1.4000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003		28.9218	28.9218	5.5000e-004	5.3000e-004	29.0937
Mobile	1.4340	2.1216	18.3190	0.0628	7.2557	0.0471	7.3029	1.9248	0.0435	1.9683		6,277.6421	6,277.6421	0.1906		6,282.4080
<b>Total</b>	<b>2.4116</b>	<b>2.1459</b>	<b>18.3528</b>	<b>0.0629</b>	<b>7.2557</b>	<b>0.0490</b>	<b>7.3047</b>	<b>1.9248</b>	<b>0.0454</b>	<b>1.9702</b>		<b>6,306.5928</b>	<b>6,306.5928</b>	<b>0.1913</b>	<b>5.3000e-004</b>	<b>6,311.5324</b>

### Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.9749	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0289	0.0289	8.0000e-005		0.0308
Energy	2.6500e-003	0.0241	0.0203	1.4000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003		28.9218	28.9218	5.5000e-004	5.3000e-004	29.0937
Mobile	1.4340	2.1216	18.3190	0.0628	7.2557	0.0471	7.3029	1.9248	0.0435	1.9683		6,277.6421	6,277.6421	0.1906		6,282.4080
<b>Total</b>	<b>2.4116</b>	<b>2.1459</b>	<b>18.3528</b>	<b>0.0629</b>	<b>7.2557</b>	<b>0.0490</b>	<b>7.3047</b>	<b>1.9248</b>	<b>0.0454</b>	<b>1.9702</b>		<b>6,306.5928</b>	<b>6,306.5928</b>	<b>0.1913</b>	<b>5.3000e-004</b>	<b>6,311.5324</b>



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

#### 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	1.4340	2.1216	18.3190	0.0628	7.2557	0.0471	7.3029	1.9248	0.0435	1.9683		6,277.6421	6,277.6421	0.1906		6,282.4080
Unmitigated	1.4340	2.1216	18.3190	0.0628	7.2557	0.0471	7.3029	1.9248	0.0435	1.9683		6,277.6421	6,277.6421	0.1906		6,282.4080

#### 4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Strip Mall	1,003.28	1,115.14	115.14	3,222,732	3,222,732
Total	1,003.28	1,115.14	1,115.14	3,222,732	3,222,732

#### 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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	87	13	0

#### 4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Parking Lot	0.561378	0.043284	0.209473	0.111826	0.015545	0.005795	0.025829	0.017125	0.001747	0.001542	0.004926	0.000594	0.000934
Strip Mall	0.664531	0.051237	0.247964	0.020000	0.002418	0.000901	0.004017	0.002664	0.000000	0.000000	0.006268	0.000000	0.000000

## 5.0 Energy Detail

Historical Energy Use: Y

### 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	2.6500e-003	0.0241	0.0203	1.4000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003		28.9218	28.9218	5.5000e-004	5.3000e-004	29.0937
NaturalGas Unmitigated	2.6500e-003	0.0241	0.0203	1.4000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003		28.9218	28.9218	5.5000e-004	5.3000e-004	29.0937

## 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					
Other Non-Asphalt Surfaces	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
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
Strip Mall	245.835	2.6500e-003	0.0241	0.0203	1.4000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003		28.9218	28.9218	5.5000e-004	5.3000e-004	29.0937
<b>Total</b>		<b>2.6500e-003</b>	<b>0.0241</b>	<b>0.0203</b>	<b>1.4000e-004</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>		<b>28.9218</b>	<b>28.9218</b>	<b>5.5000e-004</b>	<b>5.3000e-004</b>	<b>29.0937</b>

### 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					
Other Non-Asphalt Surfaces	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
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
Strip Mall	0.245835	2.6500e-003	0.0241	0.0203	1.4000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003		28.9218	28.9218	5.5000e-004	5.3000e-004	29.0937
<b>Total</b>		<b>2.6500e-003</b>	<b>0.0241</b>	<b>0.0203</b>	<b>1.4000e-004</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>		<b>1.8300e-003</b>	<b>1.8300e-003</b>		<b>28.9218</b>	<b>28.9218</b>	<b>5.5000e-004</b>	<b>5.3000e-004</b>	<b>29.0937</b>

## 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	0.9749	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0289	0.0289	8.0000e-005		0.0308
Unmitigated	0.9749	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0289	0.0289	8.0000e-005		0.0308

## 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	0.1122					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8615					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.2600e-003	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0289	0.0289	8.0000e-005		0.0308
<b>Total</b>	<b>0.9749</b>	<b>1.2000e-004</b>	<b>0.0135</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>0.0289</b>	<b>0.0289</b>	<b>8.0000e-005</b>		<b>0.0308</b>

**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	0.1122					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8615					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.2600e-003	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0289	0.0289	8.0000e-005		0.0308
<b>Total</b>	<b>0.9749</b>	<b>1.2000e-004</b>	<b>0.0135</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>		<b>0.0289</b>	<b>0.0289</b>	<b>8.0000e-005</b>		<b>0.0308</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

**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**

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**Construction Localized Significance Thresholds: Demolition**

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
17	1.00	25	82	3.15

Source Receptor Distance (meters)	Central Orange County	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
	25	Tractors	0.5	0.0625	0	0	0
NOx	81	Graders	0.5	0.0625	0	0	0
CO	485	Dozers	0.5	0.0625	8	2	1
PM10	4.00	Scrapers	1	0.125	0	0	0
PM2.5	3.00						1.00

	Acres	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>
NOx	1	81	83	98	123	192
	1	81	83	98	123	192
		81	83	98	123	192
CO	1	485	753	1128	2109	6841
	1	485	753	1128	2109	6841
		485	753	1128	2109	6841
PM10	1	4	12	28	60	158
	1	4	12	28	60	158
		4	12	28	60	158
PM2.5	1	3	4	9	22	85
	1	3	4	9	22	85
		3	4	9	22	85

Central Orange County

	1.00 Acres					
	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>	
NOx	81	83	98	123	192	
CO	485	753	1128	2109	6841	
PM10	4	12	28	60	158	
PM2.5	3	4	9	22	85	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
17	1	17	1
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

**Construction Localized Significance Thresholds: Site Preparation**

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
17	3.15	25	82	3.15

Source Receptor Distance (meters)	Central Orange County	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
	25	Tractors	0.5	0.0625	8	4	2
NOx	141	Graders	0.5	0.0625	0	0	0
CO	921	Dozers	0.5	0.0625	8	3	1.5
PM10	8.68	Scrapers	1	0.125	0	0	0
PM2.5	5.15					<b>Acres</b>	3.50

	Acres	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>
NOx	3	138	132	143	166	218
	4	160	149	162	184	232
		141	134	146	169	220
CO	3	894	1272	1864	3129	8107
	4	1074	1503	2181	3574	8722
		921	1307	1912	3196	8199
PM10	3	8	26	42	75	173
	4	11	32	48	81	181
		9	27	43	76	174
PM2.5	3	5	7	12	27	98
	4	6	8	14	30	103
		5	7	13	28	99

Central Orange County

	3.15 Acres	25	50	100	200	500
NOx	141	134	146	169	220	220
CO	921	1307	1912	3196	8199	8199
PM10	9	27	43	76	174	174
PM2.5	5	7	13	28	99	99

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
17	3	17	4
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008



**Construction Localized Significance Thresholds: Grading**

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
17	2.50	25	82	3.15

Source Receptor Distance (meters)	Central Orange County	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
	25	Tractors	0.5	0.0625	8	3	1.5
NOx	126	Graders	0.5	0.0625	8	1	0.5
CO	805	Dozers	0.5	0.0625	8	1	0.5
PM10	7.16	Scrapers	1	0.125	0	0	0
PM2.5	4.50						2.50

	Acres	25	50	100	200	500
NOx	2	115	114	125	148	205
	3	138	132	143	166	218
		126	123	134	157	212
CO	2	715	1041	1547	2685	7493
	3	894	1272	1864	3129	8107
		805	1157	1706	2907	7800
PM10	2	6	19	35	68	166
	3	8	26	42	75	173
		7	22	38	71	170
PM2.5	2	4	6	11	25	92
	3	5	7	12	27	98
		5	7	12	26	95

Central Orange County

**2.50 Acres**

NOx	25	50	100	200	500
CO	805	1157	1706	2907	7800
PM10	7	22	38	71	170
PM2.5	5	7	12	26	95

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
17	2	17	3
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

**Construction Localized Significance Thresholds: Building Construction**

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
17	1.31	25	82	3.15

Source Receptor Distance (meters)	Central Orange County	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
	25	Tractors	0.5	0.0625	7	3	1.3125
NOx	92	Graders	0.5	0.0625	0	0	0
CO	557	Dozers	0.5	0.0625	0	0	0
PM10	4.62	Scrapers	1	0.125	0	0	0
PM2.5	3.31					Acres	1.31

	Acres	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>
NOx	1	81	83	98	123	192
	2	115	114	125	148	205
		92	93	106	131	196
CO	1	485	753	1128	2109	6841
	2	715	1041	1547	2685	7493
		557	843	1259	2289	7045
PM10	1	4	12	28	60	158
	2	6	19	35	68	166
		5	14	30	63	161
PM2.5	1	3	4	9	22	85
	2	4	6	11	25	92
		3	5	10	23	87

Central Orange County

	<b>1.31 Acres</b>	<b>25</b>	<b>50</b>	<b>100</b>	<b>200</b>	<b>500</b>
NOx	92	93	106	131	196	
CO	557	843	1259	2289	7045	
PM10	5	14	30	63	161	
PM2.5	3	5	10	23	87	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
17	1	17	2
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

**Construction Localized Significance Thresholds: Paving**

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
17	0.50	25	82	3.15

Source Receptor Distance (meters)	Central Orange County	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
	25	Tractors	0.5	0.0625	8	1	0.5
NOx	81	Graders	0.5	0.0625	0	0	0
CO	485	Dozers	0.5	0.0625	0	0	0
PM10	4.00	Scrapers	1	0.125	0	0	0
PM2.5	3.00					Acres	0.50

	Acres	25	50	100	200	500
NOx	1	81	83	98	123	192
	1	81	83	98	123	192
	1	81	83	98	123	192
CO	1	485	753	1128	2109	6841
	1	485	753	1128	2109	6841
	1	485	753	1128	2109	6841
PM10	1	4	12	28	60	158
	1	4	12	28	60	158
	1	4	12	28	60	158
PM2.5	1	3	4	9	22	85
	1	3	4	9	22	85
	1	3	4	9	22	85

Central Orange County

	0.50 Acres	25	50	100	200	500
NOx	81	83	98	123	192	
CO	485	753	1128	2109	6841	
PM10	4	12	28	60	158	
PM2.5	3	4	9	22	85	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
17	1	17	1
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

**Construction Localized Significance Thresholds: Architectural Coating**

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Project site Acreage Disturbed
17	0.00	25	82	3.15

Source Receptor Distance (meters)	Central Orange County	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres
	25	Tractors	0.5	0.0625	0	0
NOx	81	Graders	0.5	0.0625	0	0
CO	485	Dozers	0.5	0.0625	0	0
PM10	4.00	Scrapers	1	0.125	0	0
PM2.5	3.00					
					<b>Acres</b>	<b>0.00</b>

	Acres	25	50	100	200	500
NOx	1	81	83	98	123	192
	1	81	83	98	123	192
	1	81	83	98	123	192
CO	1	485	753	1128	2109	6841
	1	485	753	1128	2109	6841
	1	485	753	1128	2109	6841
PM10	1	4	12	28	60	158
	1	4	12	28	60	158
	1	4	12	28	60	158
PM2.5	1	3	4	9	22	85
	1	3	4	9	22	85
	1	3	4	9	22	85

Central Orange County

	0.00 Acres	25	50	100	200	500
NOx	81	83	98	123	192	
CO	485	753	1128	2109	6841	
PM10	4	12	28	60	158	
PM2.5	3	4	9	22	85	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
17	1	17	1
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

**Operation Localized Significance Thresholds - Sensitive Receptor**

SRA No.	Acres	Source Receptor Distance (meters)	Source Receptor Distance (Feet)
17	3.15	25	82

**Source Receptor Central Orange County**

Distance (meters)	25
<b>NOx</b>	<b>141</b>
<b>CO</b>	<b>921</b>
<b>PM10</b>	<b>2.38</b>
<b>PM2.5</b>	<b>1.38</b>

	Acres	25	50	100	200	500
NOx	3	138	132	143	166	218
	4	160	149	162	184	232
CO	3	141	134	146	169	220
	4	894	1272	1864	3129	8107
PM10	3	1074	1503	2181	3574	8722
	4	921	1307	1912	3196	8199
PM2.5	3	2	7	11	19	42
	4	3	8	12	20	43
PM2.5	3	2	7	11	19	42
	4	1	2	3	7	24
PM2.5	3	2	3	4	7	25
	4	1	2	3	7	24

Central Orange County

	3.15 Acres	25	50	100	200	500
NOx	25	141	134	146	169	220
CO	921	1307	1912	3196	8199	
PM10	2	7	11	19	42	
PM2.5	1	2	3	7	24	

N  
9

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
17	3	17	4
<b>Distance Increment Below</b>			
25			
<b>Distance Increment Above</b>			
25			

Updated: 10/21/2010 - Table C-1. 2006 – 2008

## Regional Construction Emissions Worksheet - Unmitigated

\*CalEEMod, Version 2016.3.2

<b>Demolition</b>		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2020</b>						
	Fugitive Dust	0.00	0.00	0.00	0.00	0.73	0.11
	Off-Road	3.31	33.20	21.75	0.04	1.66	1.54
	<b>Total</b>	<b>3.31</b>	<b>33.20</b>	<b>21.75</b>	<b>0.04</b>	<b>2.39</b>	<b>1.65</b>
Offsite							
	Hauling	0.08	2.78	0.73	0.01	0.17	0.05
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.07	0.04	0.49	0.00	0.16	0.04
	<b>Total</b>	<b>0.14</b>	<b>2.82</b>	<b>1.19</b>	<b>0.01</b>	<b>0.33</b>	<b>0.10</b>
<b>TOTAL</b>		<b>3.45</b>	<b>36.03</b>	<b>22.94</b>	<b>0.05</b>	<b>2.72</b>	<b>1.75</b>
<b>Site Preparation</b>		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2020</b>						
	Fugitive Dust	0.00	0.00	0.00	0.00	7.72	4.25
	Off-Road	4.08	42.42	21.51	0.04	2.20	2.02
	<b>Total</b>	<b>4.08</b>	<b>42.42</b>	<b>21.51</b>	<b>0.04</b>	<b>9.92</b>	<b>6.27</b>
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.21	0.06	0.00	0.01	0.00
	Worker	0.08	0.05	0.59	0.00	0.19	0.05
	<b>Total</b>	<b>0.08</b>	<b>0.26</b>	<b>0.64</b>	<b>0.00</b>	<b>0.20</b>	<b>0.06</b>
<b>TOTAL</b>		<b>4.16</b>	<b>42.67</b>	<b>22.16</b>	<b>0.04</b>	<b>10.12</b>	<b>6.32</b>

<b>Grading</b>		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2020</b>						
	Fugitive Dust	0.00	0.00	0.00	0.00	2.80	1.44
	Off-Road	2.43	26.39	16.05	0.03	1.27	1.17
	<b>Total</b>	<b>2.43</b>	<b>26.39</b>	<b>16.05</b>	<b>0.03</b>	<b>4.07</b>	<b>2.61</b>
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.07	0.04	0.49	0.00	0.16	0.04
	<b>Total</b>	<b>0.07</b>	<b>0.04</b>	<b>0.49</b>	<b>0.00</b>	<b>0.16</b>	<b>0.04</b>
<b>TOTAL</b>		<b>2.49</b>	<b>26.43</b>	<b>16.54</b>	<b>0.03</b>	<b>4.23</b>	<b>2.65</b>

<b>Building Construction</b>		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2020-2021</b>						
	Off-Road	2.12	19.19	16.85	0.03	1.12	1.05
	<b>Total</b>	<b>2.12</b>	<b>19.19</b>	<b>16.85</b>	<b>0.03</b>	<b>1.12</b>	<b>1.05</b>
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.06	1.77	0.51	0.00	0.11	0.04
	Worker	0.29	0.18	2.16	0.01	0.68	0.19
	<b>Total</b>	<b>0.34</b>	<b>1.95</b>	<b>2.63</b>	<b>0.01</b>	<b>0.80</b>	<b>0.22</b>
<b>TOTAL</b>		<b>2.46</b>	<b>21.13</b>	<b>19.48</b>	<b>0.04</b>	<b>1.91</b>	<b>1.27</b>

<b>Paving</b>		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2021</b>						
	Off-Road	39.81	10.84	12.26	0.02	0.58	0.53
	Paving	0.22	1.53	1.82	0.00	0.09	0.09
	<b>Total</b>	<b>1.27</b>	<b>10.84</b>	<b>12.26</b>	<b>0.02</b>	<b>0.58</b>	<b>0.53</b>
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.01	0.19	0.06	0.00	0.01	0.00
	Worker	0.08	0.05	0.56	0.00	0.21	0.06
	<b>Total</b>	<b>0.09</b>	<b>0.24</b>	<b>0.62</b>	<b>0.00</b>	<b>0.22</b>	<b>0.06</b>
<b>TOTAL</b>		<b>1.36</b>	<b>11.08</b>	<b>12.88</b>	<b>0.02</b>	<b>0.80</b>	<b>0.59</b>

<b>Architectural Coating</b>		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	<b>2021-2022</b>						
	Archit. Coating	39.81	0.00	0.00	0.00	0.00	0.00
	Off-Road	0.22	1.53	1.82	0.00	0.09	0.09
	Total	40.02	1.53	1.82	0.00	0.09	0.09
Offsite							
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Worker	0.05	0.03	0.39	0.00	0.13	0.04
	Total	0.05	0.03	0.39	0.00	0.13	0.04
<b>TOTAL</b>		<b>40.08</b>	<b>1.56</b>	<b>2.21</b>	<b>0.00</b>	<b>0.23</b>	<b>0.13</b>
<b>MAX DAILY</b>		<b>40</b>	<b>43</b>	<b>23</b>	<b>0</b>	<b>10</b>	<b>6</b>
<b>Regional Thresholds</b>		<b>75</b>	<b>100</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
Exceeds Thresholds?		No	No	No	No	No	No



## Localized Construction Emissions Worksheet - Unmitigated

\*CalEEMod, Version 2016.3.2

<b>Demolition</b>					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2020</b>				
	Fugitive Dust	0.00	0.00	0.73	0.11
	Off-Road	33.20	21.75	1.66	1.54
	<b>Total</b>	<b>33.20</b>	<b>21.75</b>	<b>2.39</b>	<b>1.65</b>
<b>1.00-acres LST</b>		<b>81</b>	<b>485</b>	<b>4.00</b>	<b>3.00</b>
Exceed Threshold?		No	No	No	No
<b>Site Preparation</b>					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2020</b>				
	Fugitive Dust	0.00	0.00	7.72	4.25
	Off-Road	42.42	21.51	2.20	2.02
	<b>Total</b>	<b>42.42</b>	<b>21.51</b>	<b>9.92</b>	<b>6.27</b>
<b>3.15-acres LST</b>		<b>141</b>	<b>921</b>	<b>8.68</b>	<b>5.15</b>
Exceed Threshold?		No	No	Yes	Yes
<b>Grading</b>					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2020</b>				
	Fugitive Dust	0.00	0.00	2.80	1.44
	Off-Road	26.39	16.05	1.27	1.17
	<b>Total</b>	<b>26.39</b>	<b>16.05</b>	<b>4.07</b>	<b>2.61</b>
<b>2.50-acres LST</b>		<b>126</b>	<b>805</b>	<b>7.16</b>	<b>4.50</b>
Exceed Threshold?		No	No	No	No

<b>Building Construction</b>					
		NOx	CO	PM10 Total	PM2.5 Total

Onsite		<b>2020-2021</b>			
	Off-Road	19.19	16.85	1.12	1.05
	<b>Total</b>	<b>19.19</b>	<b>16.85</b>	<b>1.12</b>	<b>1.05</b>
<b>1.31-acres LST</b>		<b>92</b>	<b>557</b>	<b>4.62</b>	<b>3.31</b>
Exceed Threshold?		No	No	No	No

<b>Paving</b>					
		NOx	CO	PM10 Total	PM2.5 Total

Onsite		<b>2021</b>			
	Off-Road	10.84	12.26	0.58	0.53
	Paving	1.53	1.82	0.09	0.09
	<b>Total</b>	<b>10.84</b>	<b>12.26</b>	<b>0.58</b>	<b>0.53</b>
<b>1.00-acres LST</b>		<b>81</b>	<b>485</b>	<b>4.00</b>	<b>3.00</b>
Exceed Threshold?		No	No	No	No

<b>Architectural Coating</b>					
		NOx	CO	PM10 Total	PM2.5 Total

Onsite		<b>2021-2022</b>			
	Archit. Coating	0.00	0.00	0.00	0.00
	Off-Road	1.53	1.82	0.09	0.09
	<b>Total</b>	<b>1.53</b>	<b>1.82</b>	<b>0.09</b>	<b>0.09</b>
<b>1.00-acres LST</b>		<b>81</b>	<b>485</b>	<b>4.00</b>	<b>3.00</b>
Exceed Threshold?		No	No	No	No

## Localized Construction Emissions Worksheet - Mitigated

\*CalEEMod, Version 2016.3.2

<b>Demolition</b>					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2020</b>				
	Fugitive Dust	0.00	0.00	0.73	0.11
	Off-Road	13.56	24.67	0.06	0.06
	<b>Total</b>	<b>13.56</b>	<b>24.67</b>	<b>0.79</b>	<b>0.17</b>
<b>1.00-acres LST</b>		<b>81</b>	<b>485</b>	<b>4.00</b>	<b>3.00</b>
Exceed Threshold?		No	No	No	No
<b>Site Preparation</b>					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2020</b>				
	Fugitive Dust	0.00	0.00	7.72	4.25
	Off-Road	12.16	22.96	0.06	0.06
	<b>Total</b>	<b>12.16</b>	<b>22.96</b>	<b>7.79</b>	<b>4.31</b>
<b>3.15-acres LST</b>		<b>141</b>	<b>921</b>	<b>8.68</b>	<b>5.15</b>
Exceed Threshold?		No	No	No	No
<b>Grading</b>					
		NOx	CO	PM10 Total	PM2.5 Total
Onsite	<b>2020</b>				
	Fugitive Dust	0.00	0.00	2.80	1.44
	Off-Road	10.33	18.99	0.05	0.05
	<b>Total</b>	<b>10.33</b>	<b>18.99</b>	<b>2.85</b>	<b>1.49</b>
<b>2.50-acres LST</b>		<b>126</b>	<b>805</b>	<b>7.16</b>	<b>4.50</b>
Exceed Threshold?		No	No	No	No

<b>Building Construction</b>					
		NOx	CO	PM10 Total	PM2.5 Total

Onsite		<b>2020-2021</b>			
	Off-Road	10.82	18.14	0.12	0.12
	<b>Total</b>	<b>10.82</b>	<b>18.14</b>	<b>0.12</b>	<b>0.12</b>
<b>1.31-acres LST</b>		<b>92</b>	<b>557</b>	<b>4.62</b>	<b>3.31</b>
Exceed Threshold?		No	No	No	No

<b>Paving</b>					
		NOx	CO	PM10 Total	PM2.5 Total

Onsite		<b>2021</b>			
	Off-Road	8.40	13.99	0.05	0.05
	Paving	1.06	1.83	0.00	0.00
	<b>Total</b>	<b>8.40</b>	<b>13.99</b>	<b>0.05</b>	<b>0.05</b>
<b>1.00-acres LST</b>		<b>81</b>	<b>485</b>	<b>4.00</b>	<b>3.00</b>
Exceed Threshold?		No	No	No	No

<b>Architectural Coating</b>					
		NOx	CO	PM10 Total	PM2.5 Total

Onsite		<b>2021-2022</b>			
	Archit. Coating	0.00	0.00	0.00	0.00
	Off-Road	1.06	1.83	0.00	0.00
	<b>Total</b>	<b>1.06</b>	<b>1.83</b>	<b>0.00</b>	<b>0.00</b>
<b>1.00-acres LST</b>		<b>81</b>	<b>485</b>	<b>4.00</b>	<b>3.00</b>
Exceed Threshold?		No	No	No	No

## Regional Operation Emissions Worksheet - Unmitigated

### Existing Land Use 2019

#### Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.975	1.30E-04	1.36E-02	0.00E+00	5.00E-05	5.00E-05
Energy	2.65E-03	0.0241	0.0203	1.40E-04	1.83E-03	1.83E-03
Mobile	1.7906	2.6186	23.6075	0.0738	7.3099	1.9751
<b>Total</b>	<b>2.7682</b>	<b>2.6428</b>	<b>23.6413</b>	<b>0.0740</b>	<b>7.3117</b>	<b>1.9770</b>

#### Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.975	1.30E-04	1.36E-02	0.00E+00	5.00E-05	5.00E-05
Energy	2.65E-03	0.0241	0.0203	1.40E-04	1.83E-03	1.83E-03
Mobile	1.7577	2.7961	22.4982	0.07	7.3099	1.9752
<b>Total</b>	<b>2.7354</b>	<b>2.8203</b>	<b>22.5320</b>	<b>0.0701</b>	<b>7.3118</b>	<b>1.9771</b>

#### Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	1	0	0	0	0	0
Energy	0	0	0	0	0	0
Mobile	2	3	24	0	7	2
<b>Total</b>	<b>3</b>	<b>3</b>	<b>24</b>	<b>0</b>	<b>7</b>	<b>2</b>

## Regional Operation Emissions Worksheet - Unmitigated

\*CalEEMod, Version 2016.3.2 and EMFAC2017, Version 1.0.2

### Existing Land Use - 2022

#### Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.97	0.00	0.01	0.00	0.00	0.00
Energy	0.00	0.02	0.02	0.00	0.00	0.00
Mobile	1.47	1.99	19.29	0.07	7.30	1.97
<b>Total</b>	<b>2.44</b>	<b>2.02</b>	<b>19.32</b>	<b>0.07</b>	<b>7.30</b>	<b>1.97</b>

#### Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.97	0.00	0.01	0.00	0.00	0.00
Energy	0.00	0.02	0.02	0.00	0.00	0.00
Mobile	1.43	2.12	18.32	0.06	7.30	1.97
<b>Total</b>	<b>2.41</b>	<b>2.15</b>	<b>18.35</b>	<b>0.06</b>	<b>7.30</b>	<b>1.97</b>

#### Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	0.97	0.00	0.01	0.00	0.00	0.00
Energy	0.00	0.02	0.02	0.00	0.00	0.00
Mobile	1.47	2.12	19.29	0.07	7.30	1.97
<b>Total</b>	<b>2.44</b>	<b>2.15</b>	<b>19.32</b>	<b>0.07</b>	<b>7.30</b>	<b>1.97</b>

### Proposed Project - 2022

#### Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	2.72	0.06	4.80	0.00	0.03	0.03
Energy	0.02	0.21	0.09	0.00	0.02	0.02
Mobile	0.61	0.82	7.94	0.03	2.99	0.81
<b>Total</b>	<b>3.35</b>	<b>1.08</b>	<b>12.82</b>	<b>0.03</b>	<b>3.03</b>	<b>0.85</b>

#### Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	2.72	0.06	4.80	0.00	0.03	0.03
Energy	0.02	0.21	0.09	0.00	0.02	0.02
Mobile	0.60	0.88	7.55	0.03	2.99	0.81
<b>Total</b>	<b>3.34</b>	<b>1.14</b>	<b>12.43</b>	<b>0.03</b>	<b>3.03</b>	<b>0.85</b>

#### Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	2.72	0.06	4.80	0.00	0.03	0.03
Energy	0.02	0.21	0.09	0.00	0.02	0.02
Mobile	0.61	0.88	7.94	0.03	2.99	0.81
<b>Total</b>	<b>3.35</b>	<b>1.14</b>	<b>12.82</b>	<b>0.03</b>	<b>3.03</b>	<b>0.85</b>

### Net Difference

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Area	1.74	0.06	4.79	0.00	0.03	0.03
Energy	0.02	0.18	0.07	0.00	0.01	0.01
Mobile	-0.85	-1.24	-11.35	-0.04	-4.31	-1.16
<b>Total</b>	<b>0.91</b>	<b>-1.01</b>	<b>-6.50</b>	<b>-0.04</b>	<b>-4.27</b>	<b>-1.12</b>

<b>Regional Thresholds</b>	<b>55</b>	<b>55</b>	<b>550</b>	<b>150</b>	<b>150</b>	<b>55</b>
Exceeds Thresholds?	No	No	No	No	No	No

## Localized Operation Emissions Worksheet - Unmitigated

\*CalEEMod, Version 2016.3.2 and EMFAC2017, Version 1.0.2

### Existing Land Use - 2022

#### Summer

	NOx	CO	PM10 Total	PM2.5 Total
Area	0.00	0.01	0.00	0.00
<b>Total</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>

#### Winter

	NOx	CO	PM10 Total	PM2.5 Total
Area	0.00	0.01	0.00	0.00
<b>Total</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>

#### Max Daily

	NOx	CO	PM10 Total	PM2.5 Total
Area	0.00	0.01	0.00	0.00
<b>Total</b>	<b>0.00</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>

### Proposed Project - 2022

#### Summer

	NOx	CO	PM10 Total	PM2.5 Total
Area	0.06	4.80	0.03	0.03
<b>Total</b>	<b>0.06</b>	<b>4.80</b>	<b>0.03</b>	<b>0.03</b>

#### Winter

	NOx	CO	PM10 Total	PM2.5 Total
Area	0.06	4.80	0.03	0.03
<b>Total</b>	<b>0.06</b>	<b>4.80</b>	<b>0.03</b>	<b>0.03</b>

#### Max Daily

	NOx	CO	PM10 Total	PM2.5 Total
Area	0.06	4.80	0.03	0.03
<b>Total</b>	<b>0.06</b>	<b>4.80</b>	<b>0.03</b>	<b>0.03</b>

### Net Difference

	NOx	CO	PM10 Total	PM2.5 Total
Area	0.06	4.79	0.03	0.03
<b>Total</b>	<b>0.06</b>	<b>4.79</b>	<b>0.03</b>	<b>0.03</b>

**Operation 3.15-acres LST**      **141**      **921**      **2.38**      **1.38**

Exceeds Thresholds?      No      No      No      No

## Greenhouse Gas Emissions Summary

### Existing Land Use - 2019

	MT/yr	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Area Sources		0	3.27E-03	3.27E-03	1.00E-05	0	0.00350	0%
Energy Use		0	202.31	202.31	8.25E-03	1.77E-03	203	15%
Mobile Sources		0	1,086.29	1,086.29	3.51E-02	0	1,087	81%
Waste Generation		9.0656	0	9.0656	0.5358	0	22	2%
Water/Wastewater		1.38E+00	1.97E+01	2.11E+01	5.57E-03	3.18E-03	22	2%
<b>Total</b>		<b>10</b>	<b>1308</b>	<b>1319</b>	<b>1</b>	<b>0</b>	<b>1,335</b>	<b>100%</b>

### Proposed Project - 2022

	MT/yr	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Area Sources		0	9.79E-01	9.79E-01	9.50E-04	0	1.00300	0%
Energy Use		0	140.53	140.53	4.84E-03	1.62E-03	141	25%
Mobile Sources		0	395.17	395.17	1.19E-02	0	395	69%
Waste Generation		5.4158	0	5.4158	0.3201	0	13	2%
Water/Wastewater		1.80E+00	2.11E+01	22.8767	7.06E-03	4.09E-03	24	4%
<b>Total</b>		<b>7</b>	<b>558</b>	<b>565</b>	<b>0</b>	<b>0</b>	<b>575</b>	<b>100%</b>

### Net Emission Rates from Proposed Project

	MT/yr	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Area Sources		0	0.97603	0.97603	0.00094	0	1.00	0%
Energy Use		0	-61.782	-61.782	-0.00341	-0.00015	-62	8%
Mobile Sources		0	-691.1198	-691.1198	-0.0232	0	-692	95%
Waste Generation		-3.6498	0	-3.6498	-0.2157	0	-9	1%
Water/Wastewater		0.4145	1.4014	1.816	0.00149	0.00091	2.1	0%
Amortized Construction							28	-4%
<b>Total</b>		<b>-3.24</b>	<b>-750.5245</b>	<b>-753.7597</b>	<b>-0.2399</b>	<b>0.00076</b>	<b>-731</b>	<b>100%</b>
SCAQMD Threshold							<b>3,000</b>	
Exceeds Threshold							<b>No</b>	

### Construction

#### Construction

Unmitigated	Const.
2020	453
2021	398
2022	0
<b>Total Construction</b>	<b>851</b>

<b>30-Year Amortization</b>	<b>28</b>
SCAQMD Threshold	<b>3,000</b>
Exceeds Threshold	<b>No</b>