

# Appendix C

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Air Quality and Greenhouse Gas Emission Modeling

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Winter

**Goleta Train Depot Project**  
**Santa Barbara-South of Santa Ynez Range County, Winter**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Strip Mall	9.00	1000sqft	0.21	9,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	37
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024
<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 - Retail strip mall would have similar energy and water use as a depot
- Construction Phase - Extended per project schedule
- Demolition -
- Grading - Per initial engineering assessment
- Vehicle Trips - Per daily trip estimates
- Area Coating -
- Construction Off-road Equipment Mitigation -
- Area Mitigation -

## Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Winter

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1.00	10.00
tblConstructionPhase	NumDays	2.00	30.00
tblConstructionPhase	NumDays	100.00	200.00
tblConstructionPhase	NumDays	5.00	10.00
tblGrading	MaterialExported	0.00	15,000.00
tblVehicleTrips	ST_TR	42.04	39.00
tblVehicleTrips	SU_TR	20.43	39.00
tblVehicleTrips	WD_TR	44.32	39.00

## 2.0 Emissions Summary

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Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Winter

**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	0.2498	1.0000e-005	9.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.9700e-003	1.9700e-003	1.0000e-005		2.1000e-003
Energy	5.3000e-004	4.8300e-003	4.0600e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		5.8018	5.8018	1.1000e-004	1.1000e-004	5.8363
Mobile	0.4422	1.4290	3.8576	9.1300e-003	0.8797	8.3400e-003	0.8881	0.2357	7.7800e-003	0.2435		928.4862	928.4862	0.0509		929.7576
<b>Total</b>	<b>0.6925</b>	<b>1.4339</b>	<b>3.8626</b>	<b>9.1600e-003</b>	<b>0.8797</b>	<b>8.7100e-003</b>	<b>0.8884</b>	<b>0.2357</b>	<b>8.1500e-003</b>	<b>0.2439</b>		<b>934.2899</b>	<b>934.2899</b>	<b>0.0510</b>	<b>1.1000e-004</b>	<b>935.5960</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	0.2498	1.0000e-005	9.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.9700e-003	1.9700e-003	1.0000e-005		2.1000e-003
Energy	5.3000e-004	4.8300e-003	4.0600e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		5.8018	5.8018	1.1000e-004	1.1000e-004	5.8363
Mobile	0.4422	1.4290	3.8576	9.1300e-003	0.8797	8.3400e-003	0.8881	0.2357	7.7800e-003	0.2435		928.4862	928.4862	0.0509		929.7576
<b>Total</b>	<b>0.6925</b>	<b>1.4339</b>	<b>3.8626</b>	<b>9.1600e-003</b>	<b>0.8797</b>	<b>8.7100e-003</b>	<b>0.8884</b>	<b>0.2357</b>	<b>8.1500e-003</b>	<b>0.2439</b>		<b>934.2899</b>	<b>934.2899</b>	<b>0.0510</b>	<b>1.1000e-004</b>	<b>935.5960</b>

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Winter

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/1/2022	8/12/2022	5	10	
2	Site Preparation	Site Preparation	8/26/2022	9/8/2022	5	10	
3	Grading	Grading	9/9/2022	10/20/2022	5	30	
4	Building Construction	Building Construction	10/21/2022	7/27/2023	5	200	
5	Paving	Paving	7/28/2023	8/3/2023	5	5	
6	Architectural Coating	Architectural Coating	8/4/2023	8/17/2023	5	10	

Acres of Grading (Site Preparation Phase): 5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 13,500; Non-Residential Outdoor: 4,500; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	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
Demolition	4	10.00	0.00	181.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	1,875.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	3.00	1.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Winter

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 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					
Fugitive Dust					3.9791	0.0000	3.9791	0.6025	0.0000	0.6025			0.0000			0.0000
Off-Road	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225		1,147.9025	1,147.9025	0.2119		1,153.2001
<b>Total</b>	<b>0.7094</b>	<b>6.4138</b>	<b>7.4693</b>	<b>0.0120</b>	<b>3.9791</b>	<b>0.3375</b>	<b>4.3166</b>	<b>0.6025</b>	<b>0.3225</b>	<b>0.9251</b>		<b>1,147.9025</b>	<b>1,147.9025</b>	<b>0.2119</b>		<b>1,153.2001</b>



Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Winter

**3.2 Demolition - 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	lb/day										lb/day					
Hauling	0.1318	4.5865	1.5287	0.0134	0.3144	0.0173	0.3317	0.0860	0.0165	0.1025		1,509.9887	1,509.9887	0.1543		1,513.8469
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0305	0.0221	0.2000	5.2000e-004	0.0632	3.8000e-004	0.0635	0.0168	3.5000e-004	0.0171		51.7295	51.7295	1.5000e-003		51.7670
<b>Total</b>	<b>0.1623</b>	<b>4.6086</b>	<b>1.7287</b>	<b>0.0140</b>	<b>0.3776</b>	<b>0.0177</b>	<b>0.3952</b>	<b>0.1028</b>	<b>0.0169</b>	<b>0.1196</b>		<b>1,561.7182</b>	<b>1,561.7182</b>	<b>0.1558</b>		<b>1,565.6140</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					3.9791	0.0000	3.9791	0.6025	0.0000	0.6025			0.0000			0.0000
Off-Road	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225	0.0000	1,147.9025	1,147.9025	0.2119		1,153.2001
<b>Total</b>	<b>0.7094</b>	<b>6.4138</b>	<b>7.4693</b>	<b>0.0120</b>	<b>3.9791</b>	<b>0.3375</b>	<b>4.3166</b>	<b>0.6025</b>	<b>0.3225</b>	<b>0.9251</b>	<b>0.0000</b>	<b>1,147.9025</b>	<b>1,147.9025</b>	<b>0.2119</b>		<b>1,153.2001</b>

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Winter

**3.2 Demolition - 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	lb/day										lb/day					
Hauling	0.1318	4.5865	1.5287	0.0134	0.3144	0.0173	0.3317	0.0860	0.0165	0.1025		1,509.9887	1,509.9887	0.1543		1,513.8469
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0305	0.0221	0.2000	5.2000e-004	0.0632	3.8000e-004	0.0635	0.0168	3.5000e-004	0.0171		51.7295	51.7295	1.5000e-003		51.7670
<b>Total</b>	<b>0.1623</b>	<b>4.6086</b>	<b>1.7287</b>	<b>0.0140</b>	<b>0.3776</b>	<b>0.0177</b>	<b>0.3952</b>	<b>0.1028</b>	<b>0.0169</b>	<b>0.1196</b>		<b>1,561.7182</b>	<b>1,561.7182</b>	<b>0.1558</b>		<b>1,565.6140</b>

**3.3 Site Preparation - 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					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367		942.5179	942.5179	0.3048		950.1386
<b>Total</b>	<b>0.5797</b>	<b>6.9332</b>	<b>3.9597</b>	<b>9.7300e-003</b>	<b>0.5303</b>	<b>0.2573</b>	<b>0.7876</b>	<b>0.0573</b>	<b>0.2367</b>	<b>0.2940</b>		<b>942.5179</b>	<b>942.5179</b>	<b>0.3048</b>		<b>950.1386</b>

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Winter

**3.3 Site Preparation - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0153	0.0110	0.1000	2.6000e-004	0.0316	1.9000e-004	0.0318	8.3800e-003	1.7000e-004	8.5500e-003		25.8647	25.8647	7.5000e-004		25.8835
<b>Total</b>	<b>0.0153</b>	<b>0.0110</b>	<b>0.1000</b>	<b>2.6000e-004</b>	<b>0.0316</b>	<b>1.9000e-004</b>	<b>0.0318</b>	<b>8.3800e-003</b>	<b>1.7000e-004</b>	<b>8.5500e-003</b>		<b>25.8647</b>	<b>25.8647</b>	<b>7.5000e-004</b>		<b>25.8835</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					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367	0.0000	942.5179	942.5179	0.3048		950.1386
<b>Total</b>	<b>0.5797</b>	<b>6.9332</b>	<b>3.9597</b>	<b>9.7300e-003</b>	<b>0.5303</b>	<b>0.2573</b>	<b>0.7876</b>	<b>0.0573</b>	<b>0.2367</b>	<b>0.2940</b>	<b>0.0000</b>	<b>942.5179</b>	<b>942.5179</b>	<b>0.3048</b>		<b>950.1386</b>

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Winter

**3.3 Site Preparation - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0153	0.0110	0.1000	2.6000e-004	0.0316	1.9000e-004	0.0318	8.3800e-003	1.7000e-004	8.5500e-003		25.8647	25.8647	7.5000e-004		25.8835
<b>Total</b>	<b>0.0153</b>	<b>0.0110</b>	<b>0.1000</b>	<b>2.6000e-004</b>	<b>0.0316</b>	<b>1.9000e-004</b>	<b>0.0318</b>	<b>8.3800e-003</b>	<b>1.7000e-004</b>	<b>8.5500e-003</b>		<b>25.8647</b>	<b>25.8647</b>	<b>7.5000e-004</b>		<b>25.8835</b>

**3.4 Grading - 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					
Fugitive Dust					0.8266	0.0000	0.8266	0.4250	0.0000	0.4250			0.0000			0.0000
Off-Road	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225		1,147.9025	1,147.9025	0.2119		1,153.2001
<b>Total</b>	<b>0.7094</b>	<b>6.4138</b>	<b>7.4693</b>	<b>0.0120</b>	<b>0.8266</b>	<b>0.3375</b>	<b>1.1641</b>	<b>0.4250</b>	<b>0.3225</b>	<b>0.7475</b>		<b>1,147.9025</b>	<b>1,147.9025</b>	<b>0.2119</b>		<b>1,153.2001</b>

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**3.4 Grading - 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	lb/day										lb/day					
Hauling	0.4549	15.8373	5.2785	0.0464	1.0857	0.0596	1.1453	0.2970	0.0571	0.3540		5,214.0495	5,214.0495	0.5329		5,227.3720
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0305	0.0221	0.2000	5.2000e-004	0.0632	3.8000e-004	0.0635	0.0168	3.5000e-004	0.0171		51.7295	51.7295	1.5000e-003		51.7670
<b>Total</b>	<b>0.4854</b>	<b>15.8594</b>	<b>5.4785</b>	<b>0.0469</b>	<b>1.1488</b>	<b>0.0600</b>	<b>1.2088</b>	<b>0.3137</b>	<b>0.0574</b>	<b>0.3711</b>		<b>5,265.7790</b>	<b>5,265.7790</b>	<b>0.5344</b>		<b>5,279.1390</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					0.8266	0.0000	0.8266	0.4250	0.0000	0.4250			0.0000			0.0000
Off-Road	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225	0.0000	1,147.9025	1,147.9025	0.2119		1,153.2001
<b>Total</b>	<b>0.7094</b>	<b>6.4138</b>	<b>7.4693</b>	<b>0.0120</b>	<b>0.8266</b>	<b>0.3375</b>	<b>1.1641</b>	<b>0.4250</b>	<b>0.3225</b>	<b>0.7475</b>	<b>0.0000</b>	<b>1,147.9025</b>	<b>1,147.9025</b>	<b>0.2119</b>		<b>1,153.2001</b>

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**3.4 Grading - 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	lb/day										lb/day					
Hauling	0.4549	15.8373	5.2785	0.0464	1.0857	0.0596	1.1453	0.2970	0.0571	0.3540		5,214.0495	5,214.0495	0.5329		5,227.3720
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0305	0.0221	0.2000	5.2000e-004	0.0632	3.8000e-004	0.0635	0.0168	3.5000e-004	0.0171		51.7295	51.7295	1.5000e-003		51.7670
<b>Total</b>	<b>0.4854</b>	<b>15.8594</b>	<b>5.4785</b>	<b>0.0469</b>	<b>1.1488</b>	<b>0.0600</b>	<b>1.2088</b>	<b>0.3137</b>	<b>0.0574</b>	<b>0.3711</b>		<b>5,265.7790</b>	<b>5,265.7790</b>	<b>0.5344</b>		<b>5,279.1390</b>

**3.5 Building Construction - 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					
Off-Road	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422		1,103.9393	1,103.9393	0.3570		1,112.8652
<b>Total</b>	<b>0.6863</b>	<b>7.0258</b>	<b>7.1527</b>	<b>0.0114</b>		<b>0.3719</b>	<b>0.3719</b>		<b>0.3422</b>	<b>0.3422</b>		<b>1,103.9393</b>	<b>1,103.9393</b>	<b>0.3570</b>		<b>1,112.8652</b>

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Winter

**3.5 Building Construction - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	3.1600e-003	0.0951	0.0333	2.3000e-004	5.9200e-003	2.7000e-004	6.1900e-003	1.7000e-003	2.6000e-004	1.9700e-003		24.9303	24.9303	2.0200e-003		24.9806
Worker	9.1500e-003	6.6200e-003	0.0600	1.6000e-004	0.0190	1.1000e-004	0.0191	5.0300e-003	1.0000e-004	5.1300e-003		15.5188	15.5188	4.5000e-004		15.5301
<b>Total</b>	<b>0.0123</b>	<b>0.1017</b>	<b>0.0933</b>	<b>3.9000e-004</b>	<b>0.0249</b>	<b>3.8000e-004</b>	<b>0.0253</b>	<b>6.7300e-003</b>	<b>3.6000e-004</b>	<b>7.1000e-003</b>		<b>40.4491</b>	<b>40.4491</b>	<b>2.4700e-003</b>		<b>40.5107</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	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422	0.0000	1,103.9393	1,103.9393	0.3570		1,112.8652
<b>Total</b>	<b>0.6863</b>	<b>7.0258</b>	<b>7.1527</b>	<b>0.0114</b>		<b>0.3719</b>	<b>0.3719</b>		<b>0.3422</b>	<b>0.3422</b>	<b>0.0000</b>	<b>1,103.9393</b>	<b>1,103.9393</b>	<b>0.3570</b>		<b>1,112.8652</b>

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Winter

**3.5 Building Construction - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	3.1600e-003	0.0951	0.0333	2.3000e-004	5.9200e-003	2.7000e-004	6.1900e-003	1.7000e-003	2.6000e-004	1.9700e-003		24.9303	24.9303	2.0200e-003		24.9806
Worker	9.1500e-003	6.6200e-003	0.0600	1.6000e-004	0.0190	1.1000e-004	0.0191	5.0300e-003	1.0000e-004	5.1300e-003		15.5188	15.5188	4.5000e-004		15.5301
<b>Total</b>	<b>0.0123</b>	<b>0.1017</b>	<b>0.0933</b>	<b>3.9000e-004</b>	<b>0.0249</b>	<b>3.8000e-004</b>	<b>0.0253</b>	<b>6.7300e-003</b>	<b>3.6000e-004</b>	<b>7.1000e-003</b>		<b>40.4491</b>	<b>40.4491</b>	<b>2.4700e-003</b>		<b>40.5107</b>

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6322	6.4186	7.0970	0.0114		0.3203	0.3203		0.2946	0.2946		1,104.6089	1,104.6089	0.3573		1,113.5402
<b>Total</b>	<b>0.6322</b>	<b>6.4186</b>	<b>7.0970</b>	<b>0.0114</b>		<b>0.3203</b>	<b>0.3203</b>		<b>0.2946</b>	<b>0.2946</b>		<b>1,104.6089</b>	<b>1,104.6089</b>	<b>0.3573</b>		<b>1,113.5402</b>



Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Winter

**3.5 Building Construction - 2023**

**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	2.4600e-003	0.0790	0.0299	2.2000e-004	5.9200e-003	1.3000e-004	6.0500e-003	1.7000e-003	1.2000e-004	1.8300e-003		24.4810	24.4810	1.9300e-003		24.5293
Worker	8.5600e-003	5.9300e-003	0.0547	1.5000e-004	0.0190	1.1000e-004	0.0191	5.0300e-003	1.0000e-004	5.1300e-003		14.9389	14.9389	4.0000e-004		14.9490
<b>Total</b>	<b>0.0110</b>	<b>0.0850</b>	<b>0.0846</b>	<b>3.7000e-004</b>	<b>0.0249</b>	<b>2.4000e-004</b>	<b>0.0251</b>	<b>6.7300e-003</b>	<b>2.2000e-004</b>	<b>6.9600e-003</b>		<b>39.4200</b>	<b>39.4200</b>	<b>2.3300e-003</b>		<b>39.4782</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	0.6322	6.4186	7.0970	0.0114		0.3203	0.3203		0.2946	0.2946	0.0000	1,104.6089	1,104.6089	0.3573		1,113.5402
<b>Total</b>	<b>0.6322</b>	<b>6.4186</b>	<b>7.0970</b>	<b>0.0114</b>		<b>0.3203</b>	<b>0.3203</b>		<b>0.2946</b>	<b>0.2946</b>	<b>0.0000</b>	<b>1,104.6089</b>	<b>1,104.6089</b>	<b>0.3573</b>		<b>1,113.5402</b>

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Winter

**3.5 Building Construction - 2023**

**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	2.4600e-003	0.0790	0.0299	2.2000e-004	5.9200e-003	1.3000e-004	6.0500e-003	1.7000e-003	1.2000e-004	1.8300e-003		24.4810	24.4810	1.9300e-003		24.5293
Worker	8.5600e-003	5.9300e-003	0.0547	1.5000e-004	0.0190	1.1000e-004	0.0191	5.0300e-003	1.0000e-004	5.1300e-003		14.9389	14.9389	4.0000e-004		14.9490
<b>Total</b>	<b>0.0110</b>	<b>0.0850</b>	<b>0.0846</b>	<b>3.7000e-004</b>	<b>0.0249</b>	<b>2.4000e-004</b>	<b>0.0251</b>	<b>6.7300e-003</b>	<b>2.2000e-004</b>	<b>6.9600e-003</b>		<b>39.4200</b>	<b>39.4200</b>	<b>2.3300e-003</b>		<b>39.4782</b>

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6112	5.5046	7.0209	0.0113		0.2643	0.2643		0.2466	0.2466		1,036.0878	1,036.0878	0.3018		1,043.6331
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6112</b>	<b>5.5046</b>	<b>7.0209</b>	<b>0.0113</b>		<b>0.2643</b>	<b>0.2643</b>		<b>0.2466</b>	<b>0.2466</b>		<b>1,036.0878</b>	<b>1,036.0878</b>	<b>0.3018</b>		<b>1,043.6331</b>

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Winter

**3.6 Paving - 2023**

**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	0.0514	0.0356	0.3281	9.0000e-004	0.1137	6.6000e-004	0.1143	0.0302	6.1000e-004	0.0308		89.6336	89.6336	2.4100e-003		89.6938
<b>Total</b>	<b>0.0514</b>	<b>0.0356</b>	<b>0.3281</b>	<b>9.0000e-004</b>	<b>0.1137</b>	<b>6.6000e-004</b>	<b>0.1143</b>	<b>0.0302</b>	<b>6.1000e-004</b>	<b>0.0308</b>		<b>89.6336</b>	<b>89.6336</b>	<b>2.4100e-003</b>		<b>89.6938</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	0.6112	5.5046	7.0209	0.0113		0.2643	0.2643		0.2466	0.2466	0.0000	1,036.0878	1,036.0878	0.3018		1,043.6331
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6112</b>	<b>5.5046</b>	<b>7.0209</b>	<b>0.0113</b>		<b>0.2643</b>	<b>0.2643</b>		<b>0.2466</b>	<b>0.2466</b>	<b>0.0000</b>	<b>1,036.0878</b>	<b>1,036.0878</b>	<b>0.3018</b>		<b>1,043.6331</b>

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Winter

**3.6 Paving - 2023**

**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	0.0514	0.0356	0.3281	9.0000e-004	0.1137	6.6000e-004	0.1143	0.0302	6.1000e-004	0.0308		89.6336	89.6336	2.4100e-003		89.6938
<b>Total</b>	<b>0.0514</b>	<b>0.0356</b>	<b>0.3281</b>	<b>9.0000e-004</b>	<b>0.1137</b>	<b>6.6000e-004</b>	<b>0.1143</b>	<b>0.0302</b>	<b>6.1000e-004</b>	<b>0.0308</b>		<b>89.6336</b>	<b>89.6336</b>	<b>2.4100e-003</b>		<b>89.6938</b>

**3.7 Architectural Coating - 2023**

**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	20.8575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>21.0492</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Winter

**3.7 Architectural Coating - 2023**

**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	2.8500e-003	1.9800e-003	0.0182	5.0000e-005	6.3200e-003	4.0000e-005	6.3500e-003	1.6800e-003	3.0000e-005	1.7100e-003		4.9797	4.9797	1.3000e-004		4.9830
<b>Total</b>	<b>2.8500e-003</b>	<b>1.9800e-003</b>	<b>0.0182</b>	<b>5.0000e-005</b>	<b>6.3200e-003</b>	<b>4.0000e-005</b>	<b>6.3500e-003</b>	<b>1.6800e-003</b>	<b>3.0000e-005</b>	<b>1.7100e-003</b>		<b>4.9797</b>	<b>4.9797</b>	<b>1.3000e-004</b>		<b>4.9830</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	20.8575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>21.0492</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Winter

**3.7 Architectural Coating - 2023**

**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	2.8500e-003	1.9800e-003	0.0182	5.0000e-005	6.3200e-003	4.0000e-005	6.3500e-003	1.6800e-003	3.0000e-005	1.7100e-003		4.9797	4.9797	1.3000e-004		4.9830
<b>Total</b>	<b>2.8500e-003</b>	<b>1.9800e-003</b>	<b>0.0182</b>	<b>5.0000e-005</b>	<b>6.3200e-003</b>	<b>4.0000e-005</b>	<b>6.3500e-003</b>	<b>1.6800e-003</b>	<b>3.0000e-005</b>	<b>1.7100e-003</b>		<b>4.9797</b>	<b>4.9797</b>	<b>1.3000e-004</b>		<b>4.9830</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4422	1.4290	3.8576	9.1300e-003	0.8797	8.3400e-003	0.8881	0.2357	7.7800e-003	0.2435		928.4862	928.4862	0.0509		929.7576
Unmitigated	0.4422	1.4290	3.8576	9.1300e-003	0.8797	8.3400e-003	0.8881	0.2357	7.7800e-003	0.2435		928.4862	928.4862	0.0509		929.7576

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Strip Mall	351.00	351.00	351.00	413,250	413,250
Total	351.00	351.00	351.00	413,250	413,250

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
Strip Mall	6.60	5.50	6.40	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Strip Mall	0.572071	0.027190	0.206810	0.117824	0.018361	0.005136	0.017629	0.020081	0.002790	0.002084	0.006580	0.002569	0.000873

5.0 Energy Detail

Historical Energy Use: N

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Winter

**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	5.3000e-004	4.8300e-003	4.0600e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		5.8018	5.8018	1.1000e-004	1.1000e-004	5.8363
NaturalGas Unmitigated	5.3000e-004	4.8300e-003	4.0600e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		5.8018	5.8018	1.1000e-004	1.1000e-004	5.8363

**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					
Strip Mall	49.3151	5.3000e-004	4.8300e-003	4.0600e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		5.8018	5.8018	1.1000e-004	1.1000e-004	5.8363
<b>Total</b>		<b>5.3000e-004</b>	<b>4.8300e-003</b>	<b>4.0600e-003</b>	<b>3.0000e-005</b>		<b>3.7000e-004</b>	<b>3.7000e-004</b>		<b>3.7000e-004</b>	<b>3.7000e-004</b>		<b>5.8018</b>	<b>5.8018</b>	<b>1.1000e-004</b>	<b>1.1000e-004</b>	<b>5.8363</b>



Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Winter

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Strip Mall	0.0493151	5.3000e-004	4.8300e-003	4.0600e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		5.8018	5.8018	1.1000e-004	1.1000e-004	5.8363
<b>Total</b>		<b>5.3000e-004</b>	<b>4.8300e-003</b>	<b>4.0600e-003</b>	<b>3.0000e-005</b>		<b>3.7000e-004</b>	<b>3.7000e-004</b>		<b>3.7000e-004</b>	<b>3.7000e-004</b>		<b>5.8018</b>	<b>5.8018</b>	<b>1.1000e-004</b>	<b>1.1000e-004</b>	<b>5.8363</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	0.2498	1.0000e-005	9.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.9700e-003	1.9700e-003	1.0000e-005		2.1000e-003
Unmitigated	0.2498	1.0000e-005	9.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.9700e-003	1.9700e-003	1.0000e-005		2.1000e-003

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Winter

**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	0.0571					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1926					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.0000e-005	1.0000e-005	9.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.9700e-003	1.9700e-003	1.0000e-005		2.1000e-003
<b>Total</b>	<b>0.2498</b>	<b>1.0000e-005</b>	<b>9.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.9700e-003</b>	<b>1.9700e-003</b>	<b>1.0000e-005</b>		<b>2.1000e-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	lb/day										lb/day					
Architectural Coating	0.0571					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1926					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.0000e-005	1.0000e-005	9.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.9700e-003	1.9700e-003	1.0000e-005		2.1000e-003
<b>Total</b>	<b>0.2498</b>	<b>1.0000e-005</b>	<b>9.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.9700e-003</b>	<b>1.9700e-003</b>	<b>1.0000e-005</b>		<b>2.1000e-003</b>

**7.0 Water Detail**

## Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Winter

**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**

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Summer

**Goleta Train Depot Project**  
**Santa Barbara-South of Santa Ynez Range County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Strip Mall	9.00	1000sqft	0.21	9,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	37
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024
<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 - Retail strip mall would have similar energy and water use as a depot
- Construction Phase - Extended per project schedule
- Demolition -
- Grading - Per initial engineering assessment
- Vehicle Trips - Per daily trip estimates
- Area Coating -
- Construction Off-road Equipment Mitigation -
- Area Mitigation -

## Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1.00	10.00
tblConstructionPhase	NumDays	2.00	30.00
tblConstructionPhase	NumDays	100.00	200.00
tblConstructionPhase	NumDays	5.00	10.00
tblGrading	MaterialExported	0.00	15,000.00
tblVehicleTrips	ST_TR	42.04	39.00
tblVehicleTrips	SU_TR	20.43	39.00
tblVehicleTrips	WD_TR	44.32	39.00

## 2.0 Emissions Summary

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Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Summer

**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	0.2498	1.0000e-005	9.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.9700e-003	1.9700e-003	1.0000e-005		2.1000e-003
Energy	5.3000e-004	4.8300e-003	4.0600e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		5.8018	5.8018	1.1000e-004	1.1000e-004	5.8363
Mobile	0.4541	1.3940	3.5094	9.3500e-003	0.8797	8.2600e-003	0.8880	0.2357	7.7100e-003	0.2434		952.0808	952.0808	0.0485		953.2933
<b>Total</b>	<b>0.7045</b>	<b>1.3988</b>	<b>3.5144</b>	<b>9.3800e-003</b>	<b>0.8797</b>	<b>8.6300e-003</b>	<b>0.8884</b>	<b>0.2357</b>	<b>8.0800e-003</b>	<b>0.2438</b>		<b>957.8846</b>	<b>957.8846</b>	<b>0.0486</b>	<b>1.1000e-004</b>	<b>959.1316</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	0.2498	1.0000e-005	9.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.9700e-003	1.9700e-003	1.0000e-005		2.1000e-003
Energy	5.3000e-004	4.8300e-003	4.0600e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		5.8018	5.8018	1.1000e-004	1.1000e-004	5.8363
Mobile	0.4541	1.3940	3.5094	9.3500e-003	0.8797	8.2600e-003	0.8880	0.2357	7.7100e-003	0.2434		952.0808	952.0808	0.0485		953.2933
<b>Total</b>	<b>0.7045</b>	<b>1.3988</b>	<b>3.5144</b>	<b>9.3800e-003</b>	<b>0.8797</b>	<b>8.6300e-003</b>	<b>0.8884</b>	<b>0.2357</b>	<b>8.0800e-003</b>	<b>0.2438</b>		<b>957.8846</b>	<b>957.8846</b>	<b>0.0486</b>	<b>1.1000e-004</b>	<b>959.1316</b>

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Summer

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/1/2022	8/12/2022	5	10	
2	Site Preparation	Site Preparation	8/26/2022	9/8/2022	5	10	
3	Grading	Grading	9/9/2022	10/20/2022	5	30	
4	Building Construction	Building Construction	10/21/2022	7/27/2023	5	200	
5	Paving	Paving	7/28/2023	8/3/2023	5	5	
6	Architectural Coating	Architectural Coating	8/4/2023	8/17/2023	5	10	

Acres of Grading (Site Preparation Phase): 5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 13,500; Non-Residential Outdoor: 4,500; Striped Parking Area: 0 (Architectural Coating – sqft)

#### OffRoad Equipment



Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	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
Demolition	4	10.00	0.00	181.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	1,875.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	3.00	1.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Summer

**3.1 Mitigation Measures Construction**

**3.2 Demolition - 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					
Fugitive Dust					3.9791	0.0000	3.9791	0.6025	0.0000	0.6025			0.0000			0.0000
Off-Road	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225		1,147.9025	1,147.9025	0.2119		1,153.2001
<b>Total</b>	<b>0.7094</b>	<b>6.4138</b>	<b>7.4693</b>	<b>0.0120</b>	<b>3.9791</b>	<b>0.3375</b>	<b>4.3166</b>	<b>0.6025</b>	<b>0.3225</b>	<b>0.9251</b>		<b>1,147.9025</b>	<b>1,147.9025</b>	<b>0.2119</b>		<b>1,153.2001</b>

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Summer

**3.2 Demolition - 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	lb/day										lb/day					
Hauling	0.1284	4.5656	1.4683	0.0136	0.3144	0.0168	0.3312	0.0860	0.0161	0.1021		1,531.2959	1,531.2959	0.1514		1,535.0803
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0270	0.0193	0.1935	5.3000e-004	0.0632	3.8000e-004	0.0635	0.0168	3.5000e-004	0.0171		52.9535	52.9535	1.5000e-003		52.9911
<b>Total</b>	<b>0.1554</b>	<b>4.5849</b>	<b>1.6618</b>	<b>0.0142</b>	<b>0.3776</b>	<b>0.0172</b>	<b>0.3948</b>	<b>0.1028</b>	<b>0.0164</b>	<b>0.1192</b>		<b>1,584.2494</b>	<b>1,584.2494</b>	<b>0.1529</b>		<b>1,588.0714</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					3.9791	0.0000	3.9791	0.6025	0.0000	0.6025			0.0000			0.0000
Off-Road	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225	0.0000	1,147.9025	1,147.9025	0.2119		1,153.2001
<b>Total</b>	<b>0.7094</b>	<b>6.4138</b>	<b>7.4693</b>	<b>0.0120</b>	<b>3.9791</b>	<b>0.3375</b>	<b>4.3166</b>	<b>0.6025</b>	<b>0.3225</b>	<b>0.9251</b>	<b>0.0000</b>	<b>1,147.9025</b>	<b>1,147.9025</b>	<b>0.2119</b>		<b>1,153.2001</b>

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Summer

**3.2 Demolition - 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	lb/day										lb/day					
Hauling	0.1284	4.5656	1.4683	0.0136	0.3144	0.0168	0.3312	0.0860	0.0161	0.1021		1,531.2959	1,531.2959	0.1514		1,535.0803
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0270	0.0193	0.1935	5.3000e-004	0.0632	3.8000e-004	0.0635	0.0168	3.5000e-004	0.0171		52.9535	52.9535	1.5000e-003		52.9911
<b>Total</b>	<b>0.1554</b>	<b>4.5849</b>	<b>1.6618</b>	<b>0.0142</b>	<b>0.3776</b>	<b>0.0172</b>	<b>0.3948</b>	<b>0.1028</b>	<b>0.0164</b>	<b>0.1192</b>		<b>1,584.2494</b>	<b>1,584.2494</b>	<b>0.1529</b>		<b>1,588.0714</b>

**3.3 Site Preparation - 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					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367		942.5179	942.5179	0.3048		950.1386
<b>Total</b>	<b>0.5797</b>	<b>6.9332</b>	<b>3.9597</b>	<b>9.7300e-003</b>	<b>0.5303</b>	<b>0.2573</b>	<b>0.7876</b>	<b>0.0573</b>	<b>0.2367</b>	<b>0.2940</b>		<b>942.5179</b>	<b>942.5179</b>	<b>0.3048</b>		<b>950.1386</b>

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Summer

**3.3 Site Preparation - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0135	9.6400e-003	0.0968	2.7000e-004	0.0316	1.9000e-004	0.0318	8.3800e-003	1.7000e-004	8.5500e-003		26.4768	26.4768	7.5000e-004		26.4956
<b>Total</b>	<b>0.0135</b>	<b>9.6400e-003</b>	<b>0.0968</b>	<b>2.7000e-004</b>	<b>0.0316</b>	<b>1.9000e-004</b>	<b>0.0318</b>	<b>8.3800e-003</b>	<b>1.7000e-004</b>	<b>8.5500e-003</b>		<b>26.4768</b>	<b>26.4768</b>	<b>7.5000e-004</b>		<b>26.4956</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					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367	0.0000	942.5179	942.5179	0.3048		950.1386
<b>Total</b>	<b>0.5797</b>	<b>6.9332</b>	<b>3.9597</b>	<b>9.7300e-003</b>	<b>0.5303</b>	<b>0.2573</b>	<b>0.7876</b>	<b>0.0573</b>	<b>0.2367</b>	<b>0.2940</b>	<b>0.0000</b>	<b>942.5179</b>	<b>942.5179</b>	<b>0.3048</b>		<b>950.1386</b>

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**3.3 Site Preparation - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0135	9.6400e-003	0.0968	2.7000e-004	0.0316	1.9000e-004	0.0318	8.3800e-003	1.7000e-004	8.5500e-003		26.4768	26.4768	7.5000e-004		26.4956
<b>Total</b>	<b>0.0135</b>	<b>9.6400e-003</b>	<b>0.0968</b>	<b>2.7000e-004</b>	<b>0.0316</b>	<b>1.9000e-004</b>	<b>0.0318</b>	<b>8.3800e-003</b>	<b>1.7000e-004</b>	<b>8.5500e-003</b>		<b>26.4768</b>	<b>26.4768</b>	<b>7.5000e-004</b>		<b>26.4956</b>

**3.4 Grading - 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					
Fugitive Dust					0.8266	0.0000	0.8266	0.4250	0.0000	0.4250			0.0000			0.0000
Off-Road	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225		1,147.9025	1,147.9025	0.2119		1,153.2001
<b>Total</b>	<b>0.7094</b>	<b>6.4138</b>	<b>7.4693</b>	<b>0.0120</b>	<b>0.8266</b>	<b>0.3375</b>	<b>1.1641</b>	<b>0.4250</b>	<b>0.3225</b>	<b>0.7475</b>		<b>1,147.9025</b>	<b>1,147.9025</b>	<b>0.2119</b>		<b>1,153.2001</b>

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Summer

**3.4 Grading - 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	lb/day										lb/day					
Hauling	0.4435	15.7652	5.0700	0.0470	1.0857	0.0581	1.1437	0.2970	0.0555	0.3525		5,287.6238	5,287.6238	0.5227		5,300.6915
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0270	0.0193	0.1935	5.3000e-004	0.0632	3.8000e-004	0.0635	0.0168	3.5000e-004	0.0171		52.9535	52.9535	1.5000e-003		52.9911
<b>Total</b>	<b>0.4705</b>	<b>15.7845</b>	<b>5.2635</b>	<b>0.0476</b>	<b>1.1488</b>	<b>0.0584</b>	<b>1.2073</b>	<b>0.3137</b>	<b>0.0559</b>	<b>0.3696</b>		<b>5,340.5773</b>	<b>5,340.5773</b>	<b>0.5242</b>		<b>5,353.6826</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					0.8266	0.0000	0.8266	0.4250	0.0000	0.4250			0.0000			0.0000
Off-Road	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225	0.0000	1,147.9025	1,147.9025	0.2119		1,153.2001
<b>Total</b>	<b>0.7094</b>	<b>6.4138</b>	<b>7.4693</b>	<b>0.0120</b>	<b>0.8266</b>	<b>0.3375</b>	<b>1.1641</b>	<b>0.4250</b>	<b>0.3225</b>	<b>0.7475</b>	<b>0.0000</b>	<b>1,147.9025</b>	<b>1,147.9025</b>	<b>0.2119</b>		<b>1,153.2001</b>

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**3.4 Grading - 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	lb/day										lb/day					
Hauling	0.4435	15.7652	5.0700	0.0470	1.0857	0.0581	1.1437	0.2970	0.0555	0.3525		5,287.6238	5,287.6238	0.5227		5,300.6915
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0270	0.0193	0.1935	5.3000e-004	0.0632	3.8000e-004	0.0635	0.0168	3.5000e-004	0.0171		52.9535	52.9535	1.5000e-003		52.9911
<b>Total</b>	<b>0.4705</b>	<b>15.7845</b>	<b>5.2635</b>	<b>0.0476</b>	<b>1.1488</b>	<b>0.0584</b>	<b>1.2073</b>	<b>0.3137</b>	<b>0.0559</b>	<b>0.3696</b>		<b>5,340.5773</b>	<b>5,340.5773</b>	<b>0.5242</b>		<b>5,353.6826</b>

**3.5 Building Construction - 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					
Off-Road	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422		1,103.9393	1,103.9393	0.3570		1,112.8652
<b>Total</b>	<b>0.6863</b>	<b>7.0258</b>	<b>7.1527</b>	<b>0.0114</b>		<b>0.3719</b>	<b>0.3719</b>		<b>0.3422</b>	<b>0.3422</b>		<b>1,103.9393</b>	<b>1,103.9393</b>	<b>0.3570</b>		<b>1,112.8652</b>



Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Summer

**3.5 Building Construction - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	2.9800e-003	0.0955	0.0302	2.3000e-004	5.9200e-003	2.6000e-004	6.1800e-003	1.7000e-003	2.5000e-004	1.9500e-003		25.5414	25.5414	1.9300e-003		25.5895
Worker	8.0900e-003	5.7900e-003	0.0581	1.6000e-004	0.0190	1.1000e-004	0.0191	5.0300e-003	1.0000e-004	5.1300e-003		15.8861	15.8861	4.5000e-004		15.8973
<b>Total</b>	<b>0.0111</b>	<b>0.1013</b>	<b>0.0883</b>	<b>3.9000e-004</b>	<b>0.0249</b>	<b>3.7000e-004</b>	<b>0.0252</b>	<b>6.7300e-003</b>	<b>3.5000e-004</b>	<b>7.0800e-003</b>		<b>41.4274</b>	<b>41.4274</b>	<b>2.3800e-003</b>		<b>41.4869</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	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422	0.0000	1,103.9393	1,103.9393	0.3570		1,112.8652
<b>Total</b>	<b>0.6863</b>	<b>7.0258</b>	<b>7.1527</b>	<b>0.0114</b>		<b>0.3719</b>	<b>0.3719</b>		<b>0.3422</b>	<b>0.3422</b>	<b>0.0000</b>	<b>1,103.9393</b>	<b>1,103.9393</b>	<b>0.3570</b>		<b>1,112.8652</b>

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**3.5 Building Construction - 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	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	2.9800e-003	0.0955	0.0302	2.3000e-004	5.9200e-003	2.6000e-004	6.1800e-003	1.7000e-003	2.5000e-004	1.9500e-003		25.5414	25.5414	1.9300e-003		25.5895
Worker	8.0900e-003	5.7900e-003	0.0581	1.6000e-004	0.0190	1.1000e-004	0.0191	5.0300e-003	1.0000e-004	5.1300e-003		15.8861	15.8861	4.5000e-004		15.8973
<b>Total</b>	<b>0.0111</b>	<b>0.1013</b>	<b>0.0883</b>	<b>3.9000e-004</b>	<b>0.0249</b>	<b>3.7000e-004</b>	<b>0.0252</b>	<b>6.7300e-003</b>	<b>3.5000e-004</b>	<b>7.0800e-003</b>		<b>41.4274</b>	<b>41.4274</b>	<b>2.3800e-003</b>		<b>41.4869</b>

**3.5 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6322	6.4186	7.0970	0.0114		0.3203	0.3203		0.2946	0.2946		1,104.6089	1,104.6089	0.3573		1,113.5402
<b>Total</b>	<b>0.6322</b>	<b>6.4186</b>	<b>7.0970</b>	<b>0.0114</b>		<b>0.3203</b>	<b>0.3203</b>		<b>0.2946</b>	<b>0.2946</b>		<b>1,104.6089</b>	<b>1,104.6089</b>	<b>0.3573</b>		<b>1,113.5402</b>

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**3.5 Building Construction - 2023**

**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	2.3100e-003	0.0795	0.0273	2.3000e-004	5.9200e-003	1.2000e-004	6.0500e-003	1.7000e-003	1.2000e-004	1.8200e-003		25.0888	25.0888	1.8500e-003		25.1350
Worker	7.5500e-003	5.1800e-003	0.0530	1.5000e-004	0.0190	1.1000e-004	0.0191	5.0300e-003	1.0000e-004	5.1300e-003		15.2923	15.2923	4.0000e-004		15.3023
<b>Total</b>	<b>9.8600e-003</b>	<b>0.0846</b>	<b>0.0804</b>	<b>3.8000e-004</b>	<b>0.0249</b>	<b>2.3000e-004</b>	<b>0.0251</b>	<b>6.7300e-003</b>	<b>2.2000e-004</b>	<b>6.9500e-003</b>		<b>40.3810</b>	<b>40.3810</b>	<b>2.2500e-003</b>		<b>40.4374</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	0.6322	6.4186	7.0970	0.0114		0.3203	0.3203		0.2946	0.2946	0.0000	1,104.6089	1,104.6089	0.3573		1,113.5402
<b>Total</b>	<b>0.6322</b>	<b>6.4186</b>	<b>7.0970</b>	<b>0.0114</b>		<b>0.3203</b>	<b>0.3203</b>		<b>0.2946</b>	<b>0.2946</b>	<b>0.0000</b>	<b>1,104.6089</b>	<b>1,104.6089</b>	<b>0.3573</b>		<b>1,113.5402</b>

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**3.5 Building Construction - 2023**

**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	2.3100e-003	0.0795	0.0273	2.3000e-004	5.9200e-003	1.2000e-004	6.0500e-003	1.7000e-003	1.2000e-004	1.8200e-003		25.0888	25.0888	1.8500e-003		25.1350
Worker	7.5500e-003	5.1800e-003	0.0530	1.5000e-004	0.0190	1.1000e-004	0.0191	5.0300e-003	1.0000e-004	5.1300e-003		15.2923	15.2923	4.0000e-004		15.3023
<b>Total</b>	<b>9.8600e-003</b>	<b>0.0846</b>	<b>0.0804</b>	<b>3.8000e-004</b>	<b>0.0249</b>	<b>2.3000e-004</b>	<b>0.0251</b>	<b>6.7300e-003</b>	<b>2.2000e-004</b>	<b>6.9500e-003</b>		<b>40.3810</b>	<b>40.3810</b>	<b>2.2500e-003</b>		<b>40.4374</b>

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6112	5.5046	7.0209	0.0113		0.2643	0.2643		0.2466	0.2466		1,036.0878	1,036.0878	0.3018		1,043.6331
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6112</b>	<b>5.5046</b>	<b>7.0209</b>	<b>0.0113</b>		<b>0.2643</b>	<b>0.2643</b>		<b>0.2466</b>	<b>0.2466</b>		<b>1,036.0878</b>	<b>1,036.0878</b>	<b>0.3018</b>		<b>1,043.6331</b>

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Summer

**3.6 Paving - 2023**

**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	0.0453	0.0311	0.3182	9.2000e-004	0.1137	6.6000e-004	0.1143	0.0302	6.1000e-004	0.0308		91.7535	91.7535	2.4100e-003		91.8139
<b>Total</b>	<b>0.0453</b>	<b>0.0311</b>	<b>0.3182</b>	<b>9.2000e-004</b>	<b>0.1137</b>	<b>6.6000e-004</b>	<b>0.1143</b>	<b>0.0302</b>	<b>6.1000e-004</b>	<b>0.0308</b>		<b>91.7535</b>	<b>91.7535</b>	<b>2.4100e-003</b>		<b>91.8139</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	0.6112	5.5046	7.0209	0.0113		0.2643	0.2643		0.2466	0.2466	0.0000	1,036.0878	1,036.0878	0.3018		1,043.6331
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6112</b>	<b>5.5046</b>	<b>7.0209</b>	<b>0.0113</b>		<b>0.2643</b>	<b>0.2643</b>		<b>0.2466</b>	<b>0.2466</b>	<b>0.0000</b>	<b>1,036.0878</b>	<b>1,036.0878</b>	<b>0.3018</b>		<b>1,043.6331</b>

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Summer

**3.6 Paving - 2023**

**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	0.0453	0.0311	0.3182	9.2000e-004	0.1137	6.6000e-004	0.1143	0.0302	6.1000e-004	0.0308		91.7535	91.7535	2.4100e-003		91.8139
<b>Total</b>	<b>0.0453</b>	<b>0.0311</b>	<b>0.3182</b>	<b>9.2000e-004</b>	<b>0.1137</b>	<b>6.6000e-004</b>	<b>0.1143</b>	<b>0.0302</b>	<b>6.1000e-004</b>	<b>0.0308</b>		<b>91.7535</b>	<b>91.7535</b>	<b>2.4100e-003</b>		<b>91.8139</b>

**3.7 Architectural Coating - 2023**

**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	20.8575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>21.0492</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Summer

**3.7 Architectural Coating - 2023**

**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	2.5200e-003	1.7300e-003	0.0177	5.0000e-005	6.3200e-003	4.0000e-005	6.3500e-003	1.6800e-003	3.0000e-005	1.7100e-003		5.0974	5.0974	1.3000e-004		5.1008
<b>Total</b>	<b>2.5200e-003</b>	<b>1.7300e-003</b>	<b>0.0177</b>	<b>5.0000e-005</b>	<b>6.3200e-003</b>	<b>4.0000e-005</b>	<b>6.3500e-003</b>	<b>1.6800e-003</b>	<b>3.0000e-005</b>	<b>1.7100e-003</b>		<b>5.0974</b>	<b>5.0974</b>	<b>1.3000e-004</b>		<b>5.1008</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	20.8575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
<b>Total</b>	<b>21.0492</b>	<b>1.3030</b>	<b>1.8111</b>	<b>2.9700e-003</b>		<b>0.0708</b>	<b>0.0708</b>		<b>0.0708</b>	<b>0.0708</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0168</b>		<b>281.8690</b>

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Summer

**3.7 Architectural Coating - 2023**

**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	2.5200e-003	1.7300e-003	0.0177	5.0000e-005	6.3200e-003	4.0000e-005	6.3500e-003	1.6800e-003	3.0000e-005	1.7100e-003		5.0974	5.0974	1.3000e-004		5.1008
<b>Total</b>	<b>2.5200e-003</b>	<b>1.7300e-003</b>	<b>0.0177</b>	<b>5.0000e-005</b>	<b>6.3200e-003</b>	<b>4.0000e-005</b>	<b>6.3500e-003</b>	<b>1.6800e-003</b>	<b>3.0000e-005</b>	<b>1.7100e-003</b>		<b>5.0974</b>	<b>5.0974</b>	<b>1.3000e-004</b>		<b>5.1008</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**



Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4541	1.3940	3.5094	9.3500e-003	0.8797	8.2600e-003	0.8880	0.2357	7.7100e-003	0.2434		952.0808	952.0808	0.0485		953.2933
Unmitigated	0.4541	1.3940	3.5094	9.3500e-003	0.8797	8.2600e-003	0.8880	0.2357	7.7100e-003	0.2434		952.0808	952.0808	0.0485		953.2933

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Strip Mall	351.00	351.00	351.00	413,250	413,250
Total	351.00	351.00	351.00	413,250	413,250

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
Strip Mall	6.60	5.50	6.40	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Strip Mall	0.572071	0.027190	0.206810	0.117824	0.018361	0.005136	0.017629	0.020081	0.002790	0.002084	0.006580	0.002569	0.000873

5.0 Energy Detail

Historical Energy Use: N

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Summer

**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	5.3000e-004	4.8300e-003	4.0600e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		5.8018	5.8018	1.1000e-004	1.1000e-004	5.8363
NaturalGas Unmitigated	5.3000e-004	4.8300e-003	4.0600e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		5.8018	5.8018	1.1000e-004	1.1000e-004	5.8363

**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					
Strip Mall	49.3151	5.3000e-004	4.8300e-003	4.0600e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		5.8018	5.8018	1.1000e-004	1.1000e-004	5.8363
<b>Total</b>		<b>5.3000e-004</b>	<b>4.8300e-003</b>	<b>4.0600e-003</b>	<b>3.0000e-005</b>		<b>3.7000e-004</b>	<b>3.7000e-004</b>		<b>3.7000e-004</b>	<b>3.7000e-004</b>		<b>5.8018</b>	<b>5.8018</b>	<b>1.1000e-004</b>	<b>1.1000e-004</b>	<b>5.8363</b>

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Strip Mall	0.0493151	5.3000e-004	4.8300e-003	4.0600e-003	3.0000e-005		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004		5.8018	5.8018	1.1000e-004	1.1000e-004	5.8363
<b>Total</b>		<b>5.3000e-004</b>	<b>4.8300e-003</b>	<b>4.0600e-003</b>	<b>3.0000e-005</b>		<b>3.7000e-004</b>	<b>3.7000e-004</b>		<b>3.7000e-004</b>	<b>3.7000e-004</b>		<b>5.8018</b>	<b>5.8018</b>	<b>1.1000e-004</b>	<b>1.1000e-004</b>	<b>5.8363</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	0.2498	1.0000e-005	9.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.9700e-003	1.9700e-003	1.0000e-005		2.1000e-003
Unmitigated	0.2498	1.0000e-005	9.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.9700e-003	1.9700e-003	1.0000e-005		2.1000e-003

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Summer

**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	0.0571					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1926					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.0000e-005	1.0000e-005	9.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.9700e-003	1.9700e-003	1.0000e-005		2.1000e-003
<b>Total</b>	<b>0.2498</b>	<b>1.0000e-005</b>	<b>9.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.9700e-003</b>	<b>1.9700e-003</b>	<b>1.0000e-005</b>		<b>2.1000e-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	lb/day										lb/day					
Architectural Coating	0.0571					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1926					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.0000e-005	1.0000e-005	9.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.9700e-003	1.9700e-003	1.0000e-005		2.1000e-003
<b>Total</b>	<b>0.2498</b>	<b>1.0000e-005</b>	<b>9.2000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.9700e-003</b>	<b>1.9700e-003</b>	<b>1.0000e-005</b>		<b>2.1000e-003</b>

**7.0 Water Detail**

## Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Summer

**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**

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Annual

**Goleta Train Depot Project**  
**Santa Barbara-South of Santa Ynez Range County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Strip Mall	9.00	1000sqft	0.21	9,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	37
<b>Climate Zone</b>	8			<b>Operational Year</b>	2024
<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 - Retail strip mall would have similar energy and water use as a depot
- Construction Phase - Extended per project schedule
- Demolition -
- Grading - Per initial engineering assessment
- Vehicle Trips - Per daily trip estimates
- Area Coating -
- Construction Off-road Equipment Mitigation -
- Area Mitigation -

## Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1.00	10.00
tblConstructionPhase	NumDays	2.00	30.00
tblConstructionPhase	NumDays	100.00	200.00
tblConstructionPhase	NumDays	5.00	10.00
tblGrading	MaterialExported	0.00	15,000.00
tblVehicleTrips	ST_TR	42.04	39.00
tblVehicleTrips	SU_TR	20.43	39.00
tblVehicleTrips	WD_TR	44.32	39.00

## 2.0 Emissions Summary

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Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-1-2022	10-31-2022	0.4706	0.4706
2	11-1-2022	1-31-2023	0.2496	0.2496
3	2-1-2023	4-30-2023	0.2272	0.2272
4	5-1-2023	7-31-2023	0.2334	0.2334
5	8-1-2023	9-30-2023	0.1184	0.1184
		Highest	0.4706	0.4706

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	0.0456	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6000e-004	1.6000e-004	0.0000	0.0000	1.7000e-004
Energy	1.0000e-004	8.8000e-004	7.4000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	33.7658	33.7658	1.3700e-003	3.0000e-004	33.8889
Mobile	0.0795	0.2607	0.6725	1.6700e-003	0.1567	1.5100e-003	0.1582	0.0421	1.4100e-003	0.0435	0.0000	154.0938	154.0938	8.1900e-003	0.0000	154.2986
Waste						0.0000	0.0000		0.0000	0.0000	1.9624	0.0000	1.9624	0.0973	0.0000	4.3952
Water						0.0000	0.0000		0.0000	0.0000	0.2359	1.6050	1.8409	8.8000e-004	5.3000e-004	2.0198
<b>Total</b>	<b>0.1252</b>	<b>0.2616</b>	<b>0.6734</b>	<b>1.6800e-003</b>	<b>0.1567</b>	<b>1.5800e-003</b>	<b>0.1582</b>	<b>0.0421</b>	<b>1.4800e-003</b>	<b>0.0435</b>	<b>2.1983</b>	<b>189.4647</b>	<b>191.6630</b>	<b>0.1078</b>	<b>8.3000e-004</b>	<b>194.6026</b>

Goleta Train Depot Project - Santa Barbara-South of Santa Ynez Range 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	0.0456	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6000e-004	1.6000e-004	0.0000	0.0000	1.7000e-004
Energy	1.0000e-004	8.8000e-004	7.4000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	33.7658	33.7658	1.3700e-003	3.0000e-004	33.8889
Mobile	0.0795	0.2607	0.6725	1.6700e-003	0.1567	1.5100e-003	0.1582	0.0421	1.4100e-003	0.0435	0.0000	154.0938	154.0938	8.1900e-003	0.0000	154.2986
Waste						0.0000	0.0000		0.0000	0.0000	1.9624	0.0000	1.9624	0.0973	0.0000	4.3952
Water						0.0000	0.0000		0.0000	0.0000	0.2359	1.6050	1.8409	8.8000e-004	5.3000e-004	2.0198
<b>Total</b>	<b>0.1252</b>	<b>0.2616</b>	<b>0.6734</b>	<b>1.6800e-003</b>	<b>0.1567</b>	<b>1.5800e-003</b>	<b>0.1582</b>	<b>0.0421</b>	<b>1.4800e-003</b>	<b>0.0435</b>	<b>2.1983</b>	<b>189.4647</b>	<b>191.6630</b>	<b>0.1078</b>	<b>8.3000e-004</b>	<b>194.6026</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>

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/1/2022	8/12/2022	5	10	
2	Site Preparation	Site Preparation	8/26/2022	9/8/2022	5	10	
3	Grading	Grading	9/9/2022	10/20/2022	5	30	
4	Building Construction	Building Construction	10/21/2022	7/27/2023	5	200	
5	Paving	Paving	7/28/2023	8/3/2023	5	5	
6	Architectural Coating	Architectural Coating	8/4/2023	8/17/2023	5	10	

**Acres of Grading (Site Preparation Phase): 5**

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 13,500; Non-Residential Outdoor: 4,500; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	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
Demolition	4	10.00	0.00	181.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	1,875.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	3.00	1.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT

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**3.1 Mitigation Measures Construction**

**3.2 Demolition - 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					
Fugitive Dust					0.0199	0.0000	0.0199	3.0100e-003	0.0000	3.0100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5500e-003	0.0321	0.0374	6.0000e-005		1.6900e-003	1.6900e-003		1.6100e-003	1.6100e-003	0.0000	5.2068	5.2068	9.6000e-004	0.0000	5.2308
<b>Total</b>	<b>3.5500e-003</b>	<b>0.0321</b>	<b>0.0374</b>	<b>6.0000e-005</b>	<b>0.0199</b>	<b>1.6900e-003</b>	<b>0.0216</b>	<b>3.0100e-003</b>	<b>1.6100e-003</b>	<b>4.6200e-003</b>	<b>0.0000</b>	<b>5.2068</b>	<b>5.2068</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>5.2308</b>

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**3.2 Demolition - 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	6.5000e-004	0.0233	7.4700e-003	7.0000e-005	1.5400e-003	9.0000e-005	1.6300e-003	4.2000e-004	8.0000e-005	5.0000e-004	0.0000	6.9053	6.9053	6.9000e-004	0.0000	6.9226
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.1000e-004	9.8000e-004	0.0000	3.1000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2350	0.2350	1.0000e-005	0.0000	0.2351
<b>Total</b>	<b>7.9000e-004</b>	<b>0.0234</b>	<b>8.4500e-003</b>	<b>7.0000e-005</b>	<b>1.8500e-003</b>	<b>9.0000e-005</b>	<b>1.9400e-003</b>	<b>5.0000e-004</b>	<b>8.0000e-005</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>7.1402</b>	<b>7.1402</b>	<b>7.0000e-004</b>	<b>0.0000</b>	<b>7.1577</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					0.0199	0.0000	0.0199	3.0100e-003	0.0000	3.0100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5500e-003	0.0321	0.0374	6.0000e-005		1.6900e-003	1.6900e-003		1.6100e-003	1.6100e-003	0.0000	5.2068	5.2068	9.6000e-004	0.0000	5.2308
<b>Total</b>	<b>3.5500e-003</b>	<b>0.0321</b>	<b>0.0374</b>	<b>6.0000e-005</b>	<b>0.0199</b>	<b>1.6900e-003</b>	<b>0.0216</b>	<b>3.0100e-003</b>	<b>1.6100e-003</b>	<b>4.6200e-003</b>	<b>0.0000</b>	<b>5.2068</b>	<b>5.2068</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>5.2308</b>

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**3.2 Demolition - 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	6.5000e-004	0.0233	7.4700e-003	7.0000e-005	1.5400e-003	9.0000e-005	1.6300e-003	4.2000e-004	8.0000e-005	5.0000e-004	0.0000	6.9053	6.9053	6.9000e-004	0.0000	6.9226
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.1000e-004	9.8000e-004	0.0000	3.1000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2350	0.2350	1.0000e-005	0.0000	0.2351
<b>Total</b>	<b>7.9000e-004</b>	<b>0.0234</b>	<b>8.4500e-003</b>	<b>7.0000e-005</b>	<b>1.8500e-003</b>	<b>9.0000e-005</b>	<b>1.9400e-003</b>	<b>5.0000e-004</b>	<b>8.0000e-005</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>7.1402</b>	<b>7.1402</b>	<b>7.0000e-004</b>	<b>0.0000</b>	<b>7.1577</b>

**3.3 Site Preparation - 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					
Fugitive Dust					2.6500e-003	0.0000	2.6500e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-003	0.0347	0.0198	5.0000e-005		1.2900e-003	1.2900e-003		1.1800e-003	1.1800e-003	0.0000	4.2752	4.2752	1.3800e-003	0.0000	4.3098
<b>Total</b>	<b>2.9000e-003</b>	<b>0.0347</b>	<b>0.0198</b>	<b>5.0000e-005</b>	<b>2.6500e-003</b>	<b>1.2900e-003</b>	<b>3.9400e-003</b>	<b>2.9000e-004</b>	<b>1.1800e-003</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>4.2752</b>	<b>4.2752</b>	<b>1.3800e-003</b>	<b>0.0000</b>	<b>4.3098</b>

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**3.3 Site Preparation - 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	7.0000e-005	5.0000e-005	4.9000e-004	0.0000	1.5000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1175	0.1175	0.0000	0.0000	0.1176
<b>Total</b>	<b>7.0000e-005</b>	<b>5.0000e-005</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1175</b>	<b>0.1175</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1176</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					2.6500e-003	0.0000	2.6500e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-003	0.0347	0.0198	5.0000e-005		1.2900e-003	1.2900e-003		1.1800e-003	1.1800e-003	0.0000	4.2752	4.2752	1.3800e-003	0.0000	4.3098
<b>Total</b>	<b>2.9000e-003</b>	<b>0.0347</b>	<b>0.0198</b>	<b>5.0000e-005</b>	<b>2.6500e-003</b>	<b>1.2900e-003</b>	<b>3.9400e-003</b>	<b>2.9000e-004</b>	<b>1.1800e-003</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>4.2752</b>	<b>4.2752</b>	<b>1.3800e-003</b>	<b>0.0000</b>	<b>4.3098</b>



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**3.3 Site Preparation - 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	7.0000e-005	5.0000e-005	4.9000e-004	0.0000	1.5000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1175	0.1175	0.0000	0.0000	0.1176
<b>Total</b>	<b>7.0000e-005</b>	<b>5.0000e-005</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1175</b>	<b>0.1175</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1176</b>

**3.4 Grading - 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					
Fugitive Dust					0.0124	0.0000	0.0124	6.3700e-003	0.0000	6.3700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0106	0.0962	0.1120	1.8000e-004		5.0600e-003	5.0600e-003		4.8400e-003	4.8400e-003	0.0000	15.6204	15.6204	2.8800e-003	0.0000	15.6925
<b>Total</b>	<b>0.0106</b>	<b>0.0962</b>	<b>0.1120</b>	<b>1.8000e-004</b>	<b>0.0124</b>	<b>5.0600e-003</b>	<b>0.0175</b>	<b>6.3700e-003</b>	<b>4.8400e-003</b>	<b>0.0112</b>	<b>0.0000</b>	<b>15.6204</b>	<b>15.6204</b>	<b>2.8800e-003</b>	<b>0.0000</b>	<b>15.6925</b>

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**3.4 Grading - 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	6.7300e-003	0.2414	0.0774	7.0000e-004	0.0160	8.8000e-004	0.0169	4.3800e-003	8.4000e-004	5.2200e-003	0.0000	71.5323	71.5323	7.1700e-003	0.0000	71.7116
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2000e-004	3.2000e-004	2.9300e-003	1.0000e-005	9.3000e-004	1.0000e-005	9.3000e-004	2.5000e-004	1.0000e-005	2.5000e-004	0.0000	0.7049	0.7049	2.0000e-005	0.0000	0.7054
<b>Total</b>	<b>7.1500e-003</b>	<b>0.2417</b>	<b>0.0803</b>	<b>7.1000e-004</b>	<b>0.0169</b>	<b>8.9000e-004</b>	<b>0.0178</b>	<b>4.6300e-003</b>	<b>8.5000e-004</b>	<b>5.4700e-003</b>	<b>0.0000</b>	<b>72.2372</b>	<b>72.2372</b>	<b>7.1900e-003</b>	<b>0.0000</b>	<b>72.4170</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					0.0124	0.0000	0.0124	6.3700e-003	0.0000	6.3700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0106	0.0962	0.1120	1.8000e-004		5.0600e-003	5.0600e-003		4.8400e-003	4.8400e-003	0.0000	15.6204	15.6204	2.8800e-003	0.0000	15.6925
<b>Total</b>	<b>0.0106</b>	<b>0.0962</b>	<b>0.1120</b>	<b>1.8000e-004</b>	<b>0.0124</b>	<b>5.0600e-003</b>	<b>0.0175</b>	<b>6.3700e-003</b>	<b>4.8400e-003</b>	<b>0.0112</b>	<b>0.0000</b>	<b>15.6204</b>	<b>15.6204</b>	<b>2.8800e-003</b>	<b>0.0000</b>	<b>15.6925</b>

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**3.4 Grading - 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	6.7300e-003	0.2414	0.0774	7.0000e-004	0.0160	8.8000e-004	0.0169	4.3800e-003	8.4000e-004	5.2200e-003	0.0000	71.5323	71.5323	7.1700e-003	0.0000	71.7116
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2000e-004	3.2000e-004	2.9300e-003	1.0000e-005	9.3000e-004	1.0000e-005	9.3000e-004	2.5000e-004	1.0000e-005	2.5000e-004	0.0000	0.7049	0.7049	2.0000e-005	0.0000	0.7054
<b>Total</b>	<b>7.1500e-003</b>	<b>0.2417</b>	<b>0.0803</b>	<b>7.1000e-004</b>	<b>0.0169</b>	<b>8.9000e-004</b>	<b>0.0178</b>	<b>4.6300e-003</b>	<b>8.5000e-004</b>	<b>5.4700e-003</b>	<b>0.0000</b>	<b>72.2372</b>	<b>72.2372</b>	<b>7.1900e-003</b>	<b>0.0000</b>	<b>72.4170</b>

**3.5 Building Construction - 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					
Off-Road	0.0175	0.1792	0.1824	2.9000e-004		9.4800e-003	9.4800e-003		8.7300e-003	8.7300e-003	0.0000	25.5377	25.5377	8.2600e-003	0.0000	25.7442
<b>Total</b>	<b>0.0175</b>	<b>0.1792</b>	<b>0.1824</b>	<b>2.9000e-004</b>		<b>9.4800e-003</b>	<b>9.4800e-003</b>		<b>8.7300e-003</b>	<b>8.7300e-003</b>	<b>0.0000</b>	<b>25.5377</b>	<b>25.5377</b>	<b>8.2600e-003</b>	<b>0.0000</b>	<b>25.7442</b>

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**3.5 Building Construction - 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	8.0000e-005	2.4600e-003	8.1000e-004	1.0000e-005	1.5000e-004	1.0000e-005	1.6000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.5849	0.5849	5.0000e-005	0.0000	0.5861
Worker	2.1000e-004	1.7000e-004	1.4900e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3595	0.3595	1.0000e-005	0.0000	0.3598
<b>Total</b>	<b>2.9000e-004</b>	<b>2.6300e-003</b>	<b>2.3000e-003</b>	<b>1.0000e-005</b>	<b>6.2000e-004</b>	<b>1.0000e-005</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>1.0000e-005</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.9444</b>	<b>0.9444</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.9458</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	0.0175	0.1792	0.1824	2.9000e-004		9.4800e-003	9.4800e-003		8.7300e-003	8.7300e-003	0.0000	25.5376	25.5376	8.2600e-003	0.0000	25.7441
<b>Total</b>	<b>0.0175</b>	<b>0.1792</b>	<b>0.1824</b>	<b>2.9000e-004</b>		<b>9.4800e-003</b>	<b>9.4800e-003</b>		<b>8.7300e-003</b>	<b>8.7300e-003</b>	<b>0.0000</b>	<b>25.5376</b>	<b>25.5376</b>	<b>8.2600e-003</b>	<b>0.0000</b>	<b>25.7441</b>

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**3.5 Building Construction - 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	8.0000e-005	2.4600e-003	8.1000e-004	1.0000e-005	1.5000e-004	1.0000e-005	1.6000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.5849	0.5849	5.0000e-005	0.0000	0.5861
Worker	2.1000e-004	1.7000e-004	1.4900e-003	0.0000	4.7000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.3595	0.3595	1.0000e-005	0.0000	0.3598
<b>Total</b>	<b>2.9000e-004</b>	<b>2.6300e-003</b>	<b>2.3000e-003</b>	<b>1.0000e-005</b>	<b>6.2000e-004</b>	<b>1.0000e-005</b>	<b>6.4000e-004</b>	<b>1.7000e-004</b>	<b>1.0000e-005</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.9444</b>	<b>0.9444</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.9458</b>

**3.5 Building Construction - 2023**

**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	0.0471	0.4782	0.5287	8.5000e-004		0.0239	0.0239		0.0220	0.0220	0.0000	74.6553	74.6553	0.0242	0.0000	75.2589
<b>Total</b>	<b>0.0471</b>	<b>0.4782</b>	<b>0.5287</b>	<b>8.5000e-004</b>		<b>0.0239</b>	<b>0.0239</b>		<b>0.0220</b>	<b>0.0220</b>	<b>0.0000</b>	<b>74.6553</b>	<b>74.6553</b>	<b>0.0242</b>	<b>0.0000</b>	<b>75.2589</b>

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**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8000e-004	5.9700e-003	2.1400e-003	2.0000e-005	4.3000e-004	1.0000e-005	4.4000e-004	1.2000e-004	1.0000e-005	1.3000e-004	0.0000	1.6784	1.6784	1.3000e-004	0.0000	1.6816
Worker	5.8000e-004	4.3000e-004	3.9800e-003	1.0000e-005	1.3800e-003	1.0000e-005	1.3900e-003	3.7000e-004	1.0000e-005	3.7000e-004	0.0000	1.0110	1.0110	3.0000e-005	0.0000	1.0117
<b>Total</b>	<b>7.6000e-004</b>	<b>6.4000e-003</b>	<b>6.1200e-003</b>	<b>3.0000e-005</b>	<b>1.8100e-003</b>	<b>2.0000e-005</b>	<b>1.8300e-003</b>	<b>4.9000e-004</b>	<b>2.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>2.6894</b>	<b>2.6894</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>2.6933</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	0.0471	0.4782	0.5287	8.5000e-004		0.0239	0.0239		0.0220	0.0220	0.0000	74.6552	74.6552	0.0242	0.0000	75.2588
<b>Total</b>	<b>0.0471</b>	<b>0.4782</b>	<b>0.5287</b>	<b>8.5000e-004</b>		<b>0.0239</b>	<b>0.0239</b>		<b>0.0220</b>	<b>0.0220</b>	<b>0.0000</b>	<b>74.6552</b>	<b>74.6552</b>	<b>0.0242</b>	<b>0.0000</b>	<b>75.2588</b>

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**3.5 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8000e-004	5.9700e-003	2.1400e-003	2.0000e-005	4.3000e-004	1.0000e-005	4.4000e-004	1.2000e-004	1.0000e-005	1.3000e-004	0.0000	1.6784	1.6784	1.3000e-004	0.0000	1.6816
Worker	5.8000e-004	4.3000e-004	3.9800e-003	1.0000e-005	1.3800e-003	1.0000e-005	1.3900e-003	3.7000e-004	1.0000e-005	3.7000e-004	0.0000	1.0110	1.0110	3.0000e-005	0.0000	1.0117
<b>Total</b>	<b>7.6000e-004</b>	<b>6.4000e-003</b>	<b>6.1200e-003</b>	<b>3.0000e-005</b>	<b>1.8100e-003</b>	<b>2.0000e-005</b>	<b>1.8300e-003</b>	<b>4.9000e-004</b>	<b>2.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>2.6894</b>	<b>2.6894</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>2.6933</b>

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5300e-003	0.0138	0.0176	3.0000e-005		6.6000e-004	6.6000e-004		6.2000e-004	6.2000e-004	0.0000	2.3498	2.3498	6.8000e-004	0.0000	2.3669
Paving	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>1.5300e-003</b>	<b>0.0138</b>	<b>0.0176</b>	<b>3.0000e-005</b>		<b>6.6000e-004</b>	<b>6.6000e-004</b>		<b>6.2000e-004</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>2.3498</b>	<b>2.3498</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>2.3669</b>

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**3.6 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	9.0000e-005	8.0000e-004	0.0000	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.2036	0.2036	1.0000e-005	0.0000	0.2037
<b>Total</b>	<b>1.2000e-004</b>	<b>9.0000e-005</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.2036</b>	<b>0.2036</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2037</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	1.5300e-003	0.0138	0.0176	3.0000e-005		6.6000e-004	6.6000e-004		6.2000e-004	6.2000e-004	0.0000	2.3498	2.3498	6.8000e-004	0.0000	2.3669
Paving	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>1.5300e-003</b>	<b>0.0138</b>	<b>0.0176</b>	<b>3.0000e-005</b>		<b>6.6000e-004</b>	<b>6.6000e-004</b>		<b>6.2000e-004</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>2.3498</b>	<b>2.3498</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>2.3669</b>



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**3.6 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	9.0000e-005	8.0000e-004	0.0000	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.2036	0.2036	1.0000e-005	0.0000	0.2037
<b>Total</b>	<b>1.2000e-004</b>	<b>9.0000e-005</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.2036</b>	<b>0.2036</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2037</b>

**3.7 Architectural Coating - 2023**

**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	0.1043					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
<b>Total</b>	<b>0.1053</b>	<b>6.5100e-003</b>	<b>9.0600e-003</b>	<b>1.0000e-005</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.2785</b>

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**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	9.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0226	0.0226	0.0000	0.0000	0.0226
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0226</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	0.1043					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
<b>Total</b>	<b>0.1053</b>	<b>6.5100e-003</b>	<b>9.0600e-003</b>	<b>1.0000e-005</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.2785</b>

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**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	9.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0226	0.0226	0.0000	0.0000	0.0226
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0226</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	0.0795	0.2607	0.6725	1.6700e-003	0.1567	1.5100e-003	0.1582	0.0421	1.4100e-003	0.0435	0.0000	154.0938	154.0938	8.1900e-003	0.0000	154.2986
Unmitigated	0.0795	0.2607	0.6725	1.6700e-003	0.1567	1.5100e-003	0.1582	0.0421	1.4100e-003	0.0435	0.0000	154.0938	154.0938	8.1900e-003	0.0000	154.2986

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Strip Mall	351.00	351.00	351.00	413,250	413,250
Total	351.00	351.00	351.00	413,250	413,250

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
Strip Mall	6.60	5.50	6.40	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Strip Mall	0.572071	0.027190	0.206810	0.117824	0.018361	0.005136	0.017629	0.020081	0.002790	0.002084	0.006580	0.002569	0.000873

5.0 Energy Detail

Historical Energy Use: N

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**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	32.8053	32.8053	1.3500e-003	2.8000e-004	32.9226
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	32.8053	32.8053	1.3500e-003	2.8000e-004	32.9226
NaturalGas Mitigated	1.0000e-004	8.8000e-004	7.4000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.9606	0.9606	2.0000e-005	2.0000e-005	0.9663
NaturalGas Unmitigated	1.0000e-004	8.8000e-004	7.4000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.9606	0.9606	2.0000e-005	2.0000e-005	0.9663

**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					
Strip Mall	18000	1.0000e-004	8.8000e-004	7.4000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.9606	0.9606	2.0000e-005	2.0000e-005	0.9663
<b>Total</b>		<b>1.0000e-004</b>	<b>8.8000e-004</b>	<b>7.4000e-004</b>	<b>1.0000e-005</b>		<b>7.0000e-005</b>	<b>7.0000e-005</b>		<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.9606</b>	<b>0.9606</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.9663</b>

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**5.2 Energy by Land Use - Natural Gas**

**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					
Strip Mall	18000	1.0000e-004	8.8000e-004	7.4000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.9606	0.9606	2.0000e-005	2.0000e-005	0.9663
<b>Total</b>		<b>1.0000e-004</b>	<b>8.8000e-004</b>	<b>7.4000e-004</b>	<b>1.0000e-005</b>		<b>7.0000e-005</b>	<b>7.0000e-005</b>		<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.9606</b>	<b>0.9606</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.9663</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Strip Mall	102960	32.8053	1.3500e-003	2.8000e-004	32.9226
<b>Total</b>		<b>32.8053</b>	<b>1.3500e-003</b>	<b>2.8000e-004</b>	<b>32.9226</b>

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**5.3 Energy by Land Use - Electricity**

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Strip Mall	102960	32.8053	1.3500e-003	2.8000e-004	32.9226
<b>Total</b>		<b>32.8053</b>	<b>1.3500e-003</b>	<b>2.8000e-004</b>	<b>32.9226</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	0.0456	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6000e-004	1.6000e-004	0.0000	0.0000	1.7000e-004
Unmitigated	0.0456	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6000e-004	1.6000e-004	0.0000	0.0000	1.7000e-004

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**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	0.0104					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0352					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6000e-004	1.6000e-004	0.0000	0.0000	1.7000e-004
<b>Total</b>	<b>0.0456</b>	<b>0.0000</b>	<b>8.0000e-005</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>1.6000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7000e-004</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	0.0104					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0352					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6000e-004	1.6000e-004	0.0000	0.0000	1.7000e-004
<b>Total</b>	<b>0.0456</b>	<b>0.0000</b>	<b>8.0000e-005</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>1.6000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7000e-004</b>

**7.0 Water Detail**



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**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.8409	8.8000e-004	5.3000e-004	2.0198
Unmitigated	1.8409	8.8000e-004	5.3000e-004	2.0198

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Strip Mall	0.666653 / 0.408594	1.8409	8.8000e-004	5.3000e-004	2.0198
<b>Total</b>		<b>1.8409</b>	<b>8.8000e-004</b>	<b>5.3000e-004</b>	<b>2.0198</b>

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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Strip Mall	0.666653 / 0.408594	1.8409	8.8000e-004	5.3000e-004	2.0198
<b>Total</b>		<b>1.8409</b>	<b>8.8000e-004</b>	<b>5.3000e-004</b>	<b>2.0198</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.9624	0.0973	0.0000	4.3952
Unmitigated	1.9624	0.0973	0.0000	4.3952

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Strip Mall	9.45	1.9624	0.0973	0.0000	4.3952
<b>Total</b>		<b>1.9624</b>	<b>0.0973</b>	<b>0.0000</b>	<b>4.3952</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Strip Mall	9.45	1.9624	0.0973	0.0000	4.3952
<b>Total</b>		<b>1.9624</b>	<b>0.0973</b>	<b>0.0000</b>	<b>4.3952</b>

**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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**Goleta Train Depot Project post 2020**  
**Santa Barbara-South of Santa Ynez Range County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Strip Mall	9.00	1000sqft	0.21	9,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	37
<b>Climate Zone</b>	8			<b>Operational Year</b>	2030
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	353.65	<b>CH4 Intensity (lb/MW hr)</b>	0.015	<b>N2O Intensity (lb/MW hr)</b>	0.003

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

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Project Characteristics - Intensity factors changed based on percentage of renewables

Land Use - Land use of retail strip mall has similar electricity and water use as a train depot

Construction Phase - Extended per construction schedule

Grading -

Demolition -

Vehicle Trips - Per estimated daily trips

Energy Use -

Construction Off-road Equipment Mitigation -

Energy Mitigation - per Title 24

Water Mitigation - per Title 24

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	5.00	10.00
tblConstructionPhase	NumDays	100.00	200.00
tblConstructionPhase	NumDays	2.00	30.00
tblConstructionPhase	NumDays	1.00	10.00
tblConstructionPhase	PhaseEndDate	1/18/2023	8/4/2023
tblConstructionPhase	PhaseEndDate	1/4/2023	7/14/2023
tblConstructionPhase	PhaseEndDate	8/17/2022	10/7/2022
tblConstructionPhase	PhaseEndDate	1/11/2023	7/21/2023
tblConstructionPhase	PhaseEndDate	8/15/2022	8/26/2022
tblConstructionPhase	PhaseStartDate	1/12/2023	7/24/2023
tblConstructionPhase	PhaseStartDate	8/18/2022	10/10/2022
tblConstructionPhase	PhaseStartDate	8/16/2022	8/29/2022
tblConstructionPhase	PhaseStartDate	1/5/2023	7/17/2023
tblGrading	MaterialExported	0.00	15,000.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.015
tblProjectCharacteristics	CO2IntensityFactor	702.44	353.65
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblVehicleTrips	ST_TR	42.04	39.00
tblVehicleTrips	SU_TR	20.43	39.00
tblVehicleTrips	WD_TR	44.32	39.00

## 2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-1-2022	10-31-2022	0.4842	0.4842
2	11-1-2022	1-31-2023	0.2496	0.2496
3	2-1-2023	4-30-2023	0.2272	0.2272
4	5-1-2023	7-31-2023	0.2663	0.2663
5	8-1-2023	9-30-2023	0.0319	0.0319
		Highest	0.4842	0.4842

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	0.0456	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6000e-004	1.6000e-004	0.0000	0.0000	1.7000e-004
Energy	1.0000e-004	8.8000e-004	7.4000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	17.4767	17.4767	7.2000e-004	1.6000e-004	17.5416
Mobile	0.0559	0.2156	0.4537	1.4200e-003	0.1564	1.0500e-003	0.1574	0.0419	9.8000e-004	0.0429	0.0000	131.9361	131.9361	6.9400e-003	0.0000	132.1096
Waste						0.0000	0.0000		0.0000	0.0000	1.9624	0.0000	1.9624	0.0973	0.0000	4.3952
Water						0.0000	0.0000		0.0000	0.0000	0.2359	0.8081	1.0439	8.5000e-004	5.2000e-004	1.2200
<b>Total</b>	<b>0.1016</b>	<b>0.2165</b>	<b>0.4545</b>	<b>1.4300e-003</b>	<b>0.1564</b>	<b>1.1200e-003</b>	<b>0.1575</b>	<b>0.0419</b>	<b>1.0500e-003</b>	<b>0.0430</b>	<b>2.1983</b>	<b>150.2210</b>	<b>152.4193</b>	<b>0.1058</b>	<b>6.8000e-004</b>	<b>155.2665</b>

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**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	0.0456	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6000e-004	1.6000e-004	0.0000	0.0000	1.7000e-004
Energy	8.0000e-005	7.6000e-004	6.4000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	16.0708	16.0708	6.6000e-004	1.4000e-004	16.1304
Mobile	0.0559	0.2156	0.4537	1.4200e-003	0.1564	1.0500e-003	0.1574	0.0419	9.8000e-004	0.0429	0.0000	131.9361	131.9361	6.9400e-003	0.0000	132.1096
Waste						0.0000	0.0000		0.0000	0.0000	1.9624	0.0000	1.9624	0.0973	0.0000	4.3952
Water						0.0000	0.0000		0.0000	0.0000	0.1887	0.6923	0.8810	6.8000e-004	4.2000e-004	1.0220
<b>Total</b>	<b>0.1016</b>	<b>0.2164</b>	<b>0.4544</b>	<b>1.4200e-003</b>	<b>0.1564</b>	<b>1.1100e-003</b>	<b>0.1575</b>	<b>0.0419</b>	<b>1.0400e-003</b>	<b>0.0430</b>	<b>2.1511</b>	<b>148.6994</b>	<b>150.8505</b>	<b>0.1056</b>	<b>5.6000e-004</b>	<b>153.6573</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>0.02</b>	<b>0.06</b>	<b>0.02</b>	<b>0.70</b>	<b>0.00</b>	<b>0.89</b>	<b>0.01</b>	<b>0.00</b>	<b>0.95</b>	<b>0.02</b>	<b>2.15</b>	<b>1.01</b>	<b>1.03</b>	<b>0.22</b>	<b>17.65</b>	<b>1.04</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	Demolition	Demolition	8/1/2022	8/12/2022	5	10	
2	Site Preparation	Site Preparation	8/13/2022	8/26/2022	5	10	
3	Grading	Grading	8/29/2022	10/7/2022	5	30	
4	Building Construction	Building Construction	10/10/2022	7/14/2023	5	200	
5	Paving	Paving	7/17/2023	7/21/2023	5	5	
6	Architectural Coating	Architectural Coating	7/24/2023	8/4/2023	5	10	

**Acres of Grading (Site Preparation Phase): 5**

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 13,500; Non-Residential Outdoor: 4,500; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	1.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	3.00	1.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	10.00	0.00	181.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	1,875.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT

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**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 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					
Fugitive Dust					0.0199	0.0000	0.0199	3.0100e-003	0.0000	3.0100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5500e-003	0.0321	0.0374	6.0000e-005		1.6900e-003	1.6900e-003		1.6100e-003	1.6100e-003	0.0000	5.2068	5.2068	9.6000e-004	0.0000	5.2308
<b>Total</b>	<b>3.5500e-003</b>	<b>0.0321</b>	<b>0.0374</b>	<b>6.0000e-005</b>	<b>0.0199</b>	<b>1.6900e-003</b>	<b>0.0216</b>	<b>3.0100e-003</b>	<b>1.6100e-003</b>	<b>4.6200e-003</b>	<b>0.0000</b>	<b>5.2068</b>	<b>5.2068</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>5.2308</b>

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**3.2 Demolition - 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	6.5000e-004	0.0233	7.4700e-003	7.0000e-005	1.5400e-003	9.0000e-005	1.6300e-003	4.2000e-004	8.0000e-005	5.0000e-004	0.0000	6.9053	6.9053	6.9000e-004	0.0000	6.9226
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.1000e-004	9.8000e-004	0.0000	3.1000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2350	0.2350	1.0000e-005	0.0000	0.2351
<b>Total</b>	<b>7.9000e-004</b>	<b>0.0234</b>	<b>8.4500e-003</b>	<b>7.0000e-005</b>	<b>1.8500e-003</b>	<b>9.0000e-005</b>	<b>1.9400e-003</b>	<b>5.0000e-004</b>	<b>8.0000e-005</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>7.1402</b>	<b>7.1402</b>	<b>7.0000e-004</b>	<b>0.0000</b>	<b>7.1577</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					8.9500e-003	0.0000	8.9500e-003	1.3600e-003	0.0000	1.3600e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5500e-003	0.0321	0.0374	6.0000e-005		1.6900e-003	1.6900e-003		1.6100e-003	1.6100e-003	0.0000	5.2068	5.2068	9.6000e-004	0.0000	5.2308
<b>Total</b>	<b>3.5500e-003</b>	<b>0.0321</b>	<b>0.0374</b>	<b>6.0000e-005</b>	<b>8.9500e-003</b>	<b>1.6900e-003</b>	<b>0.0106</b>	<b>1.3600e-003</b>	<b>1.6100e-003</b>	<b>2.9700e-003</b>	<b>0.0000</b>	<b>5.2068</b>	<b>5.2068</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>5.2308</b>

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**3.2 Demolition - 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	6.5000e-004	0.0233	7.4700e-003	7.0000e-005	1.5400e-003	9.0000e-005	1.6300e-003	4.2000e-004	8.0000e-005	5.0000e-004	0.0000	6.9053	6.9053	6.9000e-004	0.0000	6.9226
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4000e-004	1.1000e-004	9.8000e-004	0.0000	3.1000e-004	0.0000	3.1000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2350	0.2350	1.0000e-005	0.0000	0.2351
<b>Total</b>	<b>7.9000e-004</b>	<b>0.0234</b>	<b>8.4500e-003</b>	<b>7.0000e-005</b>	<b>1.8500e-003</b>	<b>9.0000e-005</b>	<b>1.9400e-003</b>	<b>5.0000e-004</b>	<b>8.0000e-005</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>7.1402</b>	<b>7.1402</b>	<b>7.0000e-004</b>	<b>0.0000</b>	<b>7.1577</b>

**3.3 Site Preparation - 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					
Fugitive Dust					2.6500e-003	0.0000	2.6500e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-003	0.0347	0.0198	5.0000e-005		1.2900e-003	1.2900e-003		1.1800e-003	1.1800e-003	0.0000	4.2752	4.2752	1.3800e-003	0.0000	4.3098
<b>Total</b>	<b>2.9000e-003</b>	<b>0.0347</b>	<b>0.0198</b>	<b>5.0000e-005</b>	<b>2.6500e-003</b>	<b>1.2900e-003</b>	<b>3.9400e-003</b>	<b>2.9000e-004</b>	<b>1.1800e-003</b>	<b>1.4700e-003</b>	<b>0.0000</b>	<b>4.2752</b>	<b>4.2752</b>	<b>1.3800e-003</b>	<b>0.0000</b>	<b>4.3098</b>

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**3.3 Site Preparation - 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	7.0000e-005	5.0000e-005	4.9000e-004	0.0000	1.5000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1175	0.1175	0.0000	0.0000	0.1176
<b>Total</b>	<b>7.0000e-005</b>	<b>5.0000e-005</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1175</b>	<b>0.1175</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1176</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					1.1900e-003	0.0000	1.1900e-003	1.3000e-004	0.0000	1.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-003	0.0347	0.0198	5.0000e-005		1.2900e-003	1.2900e-003		1.1800e-003	1.1800e-003	0.0000	4.2752	4.2752	1.3800e-003	0.0000	4.3098
<b>Total</b>	<b>2.9000e-003</b>	<b>0.0347</b>	<b>0.0198</b>	<b>5.0000e-005</b>	<b>1.1900e-003</b>	<b>1.2900e-003</b>	<b>2.4800e-003</b>	<b>1.3000e-004</b>	<b>1.1800e-003</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>4.2752</b>	<b>4.2752</b>	<b>1.3800e-003</b>	<b>0.0000</b>	<b>4.3098</b>



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**3.3 Site Preparation - 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	7.0000e-005	5.0000e-005	4.9000e-004	0.0000	1.5000e-004	0.0000	1.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.1175	0.1175	0.0000	0.0000	0.1176
<b>Total</b>	<b>7.0000e-005</b>	<b>5.0000e-005</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.1175</b>	<b>0.1175</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1176</b>

**3.4 Grading - 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					
Fugitive Dust					0.0124	0.0000	0.0124	6.3700e-003	0.0000	6.3700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0106	0.0962	0.1120	1.8000e-004		5.0600e-003	5.0600e-003		4.8400e-003	4.8400e-003	0.0000	15.6204	15.6204	2.8800e-003	0.0000	15.6925
<b>Total</b>	<b>0.0106</b>	<b>0.0962</b>	<b>0.1120</b>	<b>1.8000e-004</b>	<b>0.0124</b>	<b>5.0600e-003</b>	<b>0.0175</b>	<b>6.3700e-003</b>	<b>4.8400e-003</b>	<b>0.0112</b>	<b>0.0000</b>	<b>15.6204</b>	<b>15.6204</b>	<b>2.8800e-003</b>	<b>0.0000</b>	<b>15.6925</b>

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**3.4 Grading - 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	6.7300e-003	0.2414	0.0774	7.0000e-004	0.0160	8.8000e-004	0.0169	4.3800e-003	8.4000e-004	5.2200e-003	0.0000	71.5323	71.5323	7.1700e-003	0.0000	71.7116
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2000e-004	3.2000e-004	2.9300e-003	1.0000e-005	9.3000e-004	1.0000e-005	9.3000e-004	2.5000e-004	1.0000e-005	2.5000e-004	0.0000	0.7049	0.7049	2.0000e-005	0.0000	0.7054
<b>Total</b>	<b>7.1500e-003</b>	<b>0.2417</b>	<b>0.0803</b>	<b>7.1000e-004</b>	<b>0.0169</b>	<b>8.9000e-004</b>	<b>0.0178</b>	<b>4.6300e-003</b>	<b>8.5000e-004</b>	<b>5.4700e-003</b>	<b>0.0000</b>	<b>72.2372</b>	<b>72.2372</b>	<b>7.1900e-003</b>	<b>0.0000</b>	<b>72.4170</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					5.5800e-003	0.0000	5.5800e-003	2.8700e-003	0.0000	2.8700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0106	0.0962	0.1120	1.8000e-004		5.0600e-003	5.0600e-003		4.8400e-003	4.8400e-003	0.0000	15.6204	15.6204	2.8800e-003	0.0000	15.6925
<b>Total</b>	<b>0.0106</b>	<b>0.0962</b>	<b>0.1120</b>	<b>1.8000e-004</b>	<b>5.5800e-003</b>	<b>5.0600e-003</b>	<b>0.0106</b>	<b>2.8700e-003</b>	<b>4.8400e-003</b>	<b>7.7100e-003</b>	<b>0.0000</b>	<b>15.6204</b>	<b>15.6204</b>	<b>2.8800e-003</b>	<b>0.0000</b>	<b>15.6925</b>

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**3.4 Grading - 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	6.7300e-003	0.2414	0.0774	7.0000e-004	0.0160	8.8000e-004	0.0169	4.3800e-003	8.4000e-004	5.2200e-003	0.0000	71.5323	71.5323	7.1700e-003	0.0000	71.7116
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2000e-004	3.2000e-004	2.9300e-003	1.0000e-005	9.3000e-004	1.0000e-005	9.3000e-004	2.5000e-004	1.0000e-005	2.5000e-004	0.0000	0.7049	0.7049	2.0000e-005	0.0000	0.7054
<b>Total</b>	<b>7.1500e-003</b>	<b>0.2417</b>	<b>0.0803</b>	<b>7.1000e-004</b>	<b>0.0169</b>	<b>8.9000e-004</b>	<b>0.0178</b>	<b>4.6300e-003</b>	<b>8.5000e-004</b>	<b>5.4700e-003</b>	<b>0.0000</b>	<b>72.2372</b>	<b>72.2372</b>	<b>7.1900e-003</b>	<b>0.0000</b>	<b>72.4170</b>

**3.5 Building Construction - 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					
Off-Road	0.0206	0.2108	0.2146	3.4000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	30.0443	30.0443	9.7200e-003	0.0000	30.2872
<b>Total</b>	<b>0.0206</b>	<b>0.2108</b>	<b>0.2146</b>	<b>3.4000e-004</b>		<b>0.0112</b>	<b>0.0112</b>		<b>0.0103</b>	<b>0.0103</b>	<b>0.0000</b>	<b>30.0443</b>	<b>30.0443</b>	<b>9.7200e-003</b>	<b>0.0000</b>	<b>30.2872</b>

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**3.5 Building Construction - 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	9.0000e-005	2.8900e-003	9.5000e-004	1.0000e-005	1.7000e-004	1.0000e-005	1.8000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.6881	0.6881	5.0000e-005	0.0000	0.6895
Worker	2.5000e-004	1.9000e-004	1.7600e-003	0.0000	5.6000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4229	0.4229	1.0000e-005	0.0000	0.4232
<b>Total</b>	<b>3.4000e-004</b>	<b>3.0800e-003</b>	<b>2.7100e-003</b>	<b>1.0000e-005</b>	<b>7.3000e-004</b>	<b>1.0000e-005</b>	<b>7.4000e-004</b>	<b>2.0000e-004</b>	<b>1.0000e-005</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>1.1111</b>	<b>1.1111</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.1127</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	0.0206	0.2108	0.2146	3.4000e-004		0.0112	0.0112		0.0103	0.0103	0.0000	30.0443	30.0443	9.7200e-003	0.0000	30.2872
<b>Total</b>	<b>0.0206</b>	<b>0.2108</b>	<b>0.2146</b>	<b>3.4000e-004</b>		<b>0.0112</b>	<b>0.0112</b>		<b>0.0103</b>	<b>0.0103</b>	<b>0.0000</b>	<b>30.0443</b>	<b>30.0443</b>	<b>9.7200e-003</b>	<b>0.0000</b>	<b>30.2872</b>

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**3.5 Building Construction - 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	9.0000e-005	2.8900e-003	9.5000e-004	1.0000e-005	1.7000e-004	1.0000e-005	1.8000e-004	5.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.6881	0.6881	5.0000e-005	0.0000	0.6895
Worker	2.5000e-004	1.9000e-004	1.7600e-003	0.0000	5.6000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4229	0.4229	1.0000e-005	0.0000	0.4232
<b>Total</b>	<b>3.4000e-004</b>	<b>3.0800e-003</b>	<b>2.7100e-003</b>	<b>1.0000e-005</b>	<b>7.3000e-004</b>	<b>1.0000e-005</b>	<b>7.4000e-004</b>	<b>2.0000e-004</b>	<b>1.0000e-005</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>1.1111</b>	<b>1.1111</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.1127</b>

**3.5 Building Construction - 2023**

**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	0.0443	0.4493	0.4968	8.0000e-004		0.0224	0.0224		0.0206	0.0206	0.0000	70.1459	70.1459	0.0227	0.0000	70.7131
<b>Total</b>	<b>0.0443</b>	<b>0.4493</b>	<b>0.4968</b>	<b>8.0000e-004</b>		<b>0.0224</b>	<b>0.0224</b>		<b>0.0206</b>	<b>0.0206</b>	<b>0.0000</b>	<b>70.1459</b>	<b>70.1459</b>	<b>0.0227</b>	<b>0.0000</b>	<b>70.7131</b>

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**3.5 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7000e-004	5.6100e-003	2.0100e-003	2.0000e-005	4.1000e-004	1.0000e-005	4.2000e-004	1.2000e-004	1.0000e-005	1.3000e-004	0.0000	1.5770	1.5770	1.2000e-004	0.0000	1.5800
Worker	5.4000e-004	4.1000e-004	3.7400e-003	1.0000e-005	1.3000e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	0.9500	0.9500	3.0000e-005	0.0000	0.9506
<b>Total</b>	<b>7.1000e-004</b>	<b>6.0200e-003</b>	<b>5.7500e-003</b>	<b>3.0000e-005</b>	<b>1.7100e-003</b>	<b>2.0000e-005</b>	<b>1.7200e-003</b>	<b>4.6000e-004</b>	<b>2.0000e-005</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>2.5270</b>	<b>2.5270</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>2.5306</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	0.0443	0.4493	0.4968	8.0000e-004		0.0224	0.0224		0.0206	0.0206	0.0000	70.1458	70.1458	0.0227	0.0000	70.7130
<b>Total</b>	<b>0.0443</b>	<b>0.4493</b>	<b>0.4968</b>	<b>8.0000e-004</b>		<b>0.0224</b>	<b>0.0224</b>		<b>0.0206</b>	<b>0.0206</b>	<b>0.0000</b>	<b>70.1458</b>	<b>70.1458</b>	<b>0.0227</b>	<b>0.0000</b>	<b>70.7130</b>

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**3.5 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7000e-004	5.6100e-003	2.0100e-003	2.0000e-005	4.1000e-004	1.0000e-005	4.2000e-004	1.2000e-004	1.0000e-005	1.3000e-004	0.0000	1.5770	1.5770	1.2000e-004	0.0000	1.5800
Worker	5.4000e-004	4.1000e-004	3.7400e-003	1.0000e-005	1.3000e-003	1.0000e-005	1.3000e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	0.9500	0.9500	3.0000e-005	0.0000	0.9506
<b>Total</b>	<b>7.1000e-004</b>	<b>6.0200e-003</b>	<b>5.7500e-003</b>	<b>3.0000e-005</b>	<b>1.7100e-003</b>	<b>2.0000e-005</b>	<b>1.7200e-003</b>	<b>4.6000e-004</b>	<b>2.0000e-005</b>	<b>4.8000e-004</b>	<b>0.0000</b>	<b>2.5270</b>	<b>2.5270</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>2.5306</b>

**3.6 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5300e-003	0.0138	0.0176	3.0000e-005		6.6000e-004	6.6000e-004		6.2000e-004	6.2000e-004	0.0000	2.3498	2.3498	6.8000e-004	0.0000	2.3669
Paving	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>1.5300e-003</b>	<b>0.0138</b>	<b>0.0176</b>	<b>3.0000e-005</b>		<b>6.6000e-004</b>	<b>6.6000e-004</b>		<b>6.2000e-004</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>2.3498</b>	<b>2.3498</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>2.3669</b>

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**3.6 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	9.0000e-005	8.0000e-004	0.0000	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.2036	0.2036	1.0000e-005	0.0000	0.2037
<b>Total</b>	<b>1.2000e-004</b>	<b>9.0000e-005</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.2036</b>	<b>0.2036</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2037</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	1.5300e-003	0.0138	0.0176	3.0000e-005		6.6000e-004	6.6000e-004		6.2000e-004	6.2000e-004	0.0000	2.3498	2.3498	6.8000e-004	0.0000	2.3669
Paving	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>1.5300e-003</b>	<b>0.0138</b>	<b>0.0176</b>	<b>3.0000e-005</b>		<b>6.6000e-004</b>	<b>6.6000e-004</b>		<b>6.2000e-004</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>2.3498</b>	<b>2.3498</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>2.3669</b>



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**3.6 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	9.0000e-005	8.0000e-004	0.0000	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.2036	0.2036	1.0000e-005	0.0000	0.2037
<b>Total</b>	<b>1.2000e-004</b>	<b>9.0000e-005</b>	<b>8.0000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>2.8000e-004</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>0.2036</b>	<b>0.2036</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2037</b>

**3.7 Architectural Coating - 2023**

**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	0.1043					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
<b>Total</b>	<b>0.1053</b>	<b>6.5100e-003</b>	<b>9.0600e-003</b>	<b>1.0000e-005</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.2785</b>

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**3.7 Architectural Coating - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	9.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0226	0.0226	0.0000	0.0000	0.0226
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0226</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	0.1043					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
<b>Total</b>	<b>0.1053</b>	<b>6.5100e-003</b>	<b>9.0600e-003</b>	<b>1.0000e-005</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>		<b>3.5000e-004</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>1.2766</b>	<b>1.2766</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.2785</b>

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**3.7 Architectural Coating - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	9.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0226	0.0226	0.0000	0.0000	0.0226
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0226</b>	<b>0.0226</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0226</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	0.0559	0.2156	0.4537	1.4200e-003	0.1564	1.0500e-003	0.1574	0.0419	9.8000e-004	0.0429	0.0000	131.9361	131.9361	6.9400e-003	0.0000	132.1096
Unmitigated	0.0559	0.2156	0.4537	1.4200e-003	0.1564	1.0500e-003	0.1574	0.0419	9.8000e-004	0.0429	0.0000	131.9361	131.9361	6.9400e-003	0.0000	132.1096

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Strip Mall	351.00	351.00	351.00	413,250	413,250
Total	351.00	351.00	351.00	413,250	413,250

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
Strip Mall	6.60	5.50	6.40	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Strip Mall	0.586995	0.024930	0.209264	0.108263	0.013258	0.004355	0.018072	0.021482	0.002798	0.001725	0.005977	0.002241	0.000641

5.0 Energy Detail

Historical Energy Use: N

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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	15.2471	15.2471	6.5000e-004	1.3000e-004	15.3018
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	16.5161	16.5161	7.0000e-004	1.4000e-004	16.5754
NaturalGas Mitigated	8.0000e-005	7.6000e-004	6.4000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8237	0.8237	2.0000e-005	2.0000e-005	0.8286
NaturalGas Unmitigated	1.0000e-004	8.8000e-004	7.4000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.9606	0.9606	2.0000e-005	2.0000e-005	0.9663

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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					
Strip Mall	18000	1.0000e-004	8.8000e-004	7.4000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.9606	0.9606	2.0000e-005	2.0000e-005	0.9663
<b>Total</b>		<b>1.0000e-004</b>	<b>8.8000e-004</b>	<b>7.4000e-004</b>	<b>1.0000e-005</b>		<b>7.0000e-005</b>	<b>7.0000e-005</b>		<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.9606</b>	<b>0.9606</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.9663</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					
Strip Mall	15435	8.0000e-005	7.6000e-004	6.4000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8237	0.8237	2.0000e-005	2.0000e-005	0.8286
<b>Total</b>		<b>8.0000e-005</b>	<b>7.6000e-004</b>	<b>6.4000e-004</b>	<b>0.0000</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.8237</b>	<b>0.8237</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.8286</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			
Strip Mall	102960	16.5161	7.0000e-004	1.4000e-004	16.5754
<b>Total</b>		<b>16.5161</b>	<b>7.0000e-004</b>	<b>1.4000e-004</b>	<b>16.5754</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Strip Mall	95049	15.2471	6.5000e-004	1.3000e-004	15.3018
<b>Total</b>		<b>15.2471</b>	<b>6.5000e-004</b>	<b>1.3000e-004</b>	<b>15.3018</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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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	0.0456	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6000e-004	1.6000e-004	0.0000	0.0000	1.7000e-004
Unmitigated	0.0456	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6000e-004	1.6000e-004	0.0000	0.0000	1.7000e-004

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	0.0104					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0352					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6000e-004	1.6000e-004	0.0000	0.0000	1.7000e-004
<b>Total</b>	<b>0.0456</b>	<b>0.0000</b>	<b>8.0000e-005</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>1.6000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7000e-004</b>



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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0104					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0352					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6000e-004	1.6000e-004	0.0000	0.0000	1.7000e-004
<b>Total</b>	<b>0.0456</b>	<b>0.0000</b>	<b>8.0000e-005</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>1.6000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.7000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.8810	6.8000e-004	4.2000e-004	1.0220
Unmitigated	1.0439	8.5000e-004	5.2000e-004	1.2200

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Strip Mall	0.666653 / 0.408594	1.0439	8.5000e-004	5.2000e-004	1.2200
<b>Total</b>		<b>1.0439</b>	<b>8.5000e-004</b>	<b>5.2000e-004</b>	<b>1.2200</b>

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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Strip Mall	0.533322 / 0.408594	0.8810	6.8000e-004	4.2000e-004	1.0220
<b>Total</b>		<b>0.8810</b>	<b>6.8000e-004</b>	<b>4.2000e-004</b>	<b>1.0220</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.9624	0.0973	0.0000	4.3952
Unmitigated	1.9624	0.0973	0.0000	4.3952

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Strip Mall	9.45	1.9624	0.0973	0.0000	4.3952
<b>Total</b>		<b>1.9624</b>	<b>0.0973</b>	<b>0.0000</b>	<b>4.3952</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Strip Mall	9.45	1.9624	0.0973	0.0000	4.3952
<b>Total</b>		<b>1.9624</b>	<b>0.0973</b>	<b>0.0000</b>	<b>4.3952</b>

**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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## N2O Operational GHG Emission Mobile Calculations

Project Code & Title: 19-07614 Goleta Train Depot

Vehicle Population Breakdown*	
164187	Gasoline vehicles
12116	Diesel vehicles
93.1%	Gasoline vehicle %
6.9%	Diesel vehicle %

VMT per Vehicle Type	
413250	Project VMT (CalEEMod output)
384851	Gasoline vehicle VMT
28399	Diesel vehicle VMT

Gasoline Vehicles	
93.1%	Gasoline vehicle %
0.2164	Tons per year mobile NOX emissions (annual output in CalEEMod)
0.20	Gasoline vehicle tons per year NOX emissions
0.0200	Tons per year N2O emissions for gasoline vehicles**
0.0182	Metric tons per year N2O emissions for gasoline vehicles

Diesel Vehicles	
1.60	grams N2O per gallon of fuel for diesel vehicles**
516.24	Diesel average miles per gallon*
0.00310	grams per mile N2O for diesel vehicles
88.0	grams per year N2O for diesel vehicles
0.0000880	Metric tons per year N2O emissions for diesel vehicles

CO2e Emissions from N2O	
0.0183	Metric tons per year from gasoline + diesel vehicles
298	GWP of N2O***
<b>5.4</b>	<b>CO2e emissions per year from N2O emissions from gasoline + diesel vehicles</b>

Sources	
<p><b>*Vehicle population source:</b>                      EMFAC2017 (v1.0.2) Emissions Inventory                      Region Type: Air District                      Region: Santa Barabara APC                      Calendar Year: 2030                      Season: Annual                      Vehicle Classification: EMFAC2011 Categories</p>	
<p><b>**Methodology source:</b>                      EMFAC2017 Volume III - Technical Documentation  <a href="https://www.arb.ca.gov/msei/emfac2011-faq.htm">https://www.arb.ca.gov/msei/emfac2011-faq.htm</a></p>	
<p><b>***GWP source:</b>                      Intergovernmental Panel on Climate Change (IPCC). 2007.                      AR4 Climate Change 2007: The Physical Science Basis.                      Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change.</p>	