

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

**2020 Walnut Industrial Park - Off-Road Equipment 4 hour**  
**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	153.00	1000sqft	3.51	153,000.00	0
Parking Lot	266.00	Space	2.39	106,400.00	0

**1.2 Other Project Characteristics**

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

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

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Project Characteristics -

Land Use - Per GAA Architects Sheet No. A1.0, total building area for nine light industrial buildings is 153,000 square feet and parking provided is 266 spaces.

Construction Phase - Per construction questionnaire.

Off-road Equipment -

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire. Grading Equipment limited to 4 hours per day.

Off-road Equipment - Per construction questionnaire.

Trips and VMT - 6,278 trips hauling

Grading - 41,672 import of dirt and 8,551 export of dirt

Vehicle Trips - Per Traffic Impact Analysis.

Construction Off-road Equipment Mitigation - Per SCAQMD standards and regulations.

Area Mitigation -

Energy Mitigation -

Waste Mitigation -

## 2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	230.00	264.00
tblConstructionPhase	NumDays	20.00	132.00
tblConstructionPhase	NumDays	20.00	22.00
tblGrading	MaterialExported	0.00	8,551.00
tblGrading	MaterialImported	0.00	41,672.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblVehicleTrips	ST_TR	1.32	17.44
tblVehicleTrips	SU_TR	0.68	17.44
tblVehicleTrips	WD_TR	6.97	17.44

## 2.0 Emissions Summary

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**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Energy	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
Mobile	5.7113	29.6320	83.8253	0.2987	25.1259	0.2579	25.3838	6.7244	0.2408	6.9652		30,380.8644	30,380.8644	1.6085		30,421.0778
<b>Total</b>	<b>9.2609</b>	<b>30.3762</b>	<b>84.4931</b>	<b>0.3032</b>	<b>25.1259</b>	<b>0.3145</b>	<b>25.4405</b>	<b>6.7244</b>	<b>0.2975</b>	<b>7.0219</b>		<b>31,273.5589</b>	<b>31,273.5589</b>	<b>1.6259</b>	<b>0.0164</b>	<b>31,319.0827</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	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Energy	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
Mobile	5.7113	29.6320	83.8253	0.2987	25.1259	0.2579	25.3838	6.7244	0.2408	6.9652		30,380.8644	30,380.8644	1.6085		30,421.0778
<b>Total</b>	<b>9.2609</b>	<b>30.3762</b>	<b>84.4931</b>	<b>0.3032</b>	<b>25.1259</b>	<b>0.3145</b>	<b>25.4405</b>	<b>6.7244</b>	<b>0.2975</b>	<b>7.0219</b>		<b>31,273.5589</b>	<b>31,273.5589</b>	<b>1.6259</b>	<b>0.0164</b>	<b>31,319.0827</b>

## 2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	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

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2020	7/2/2020	5	132	
2	Building Construction	Building Construction	7/3/2020	7/7/2021	5	264	
3	Paving	Paving	7/8/2021	8/6/2021	5	22	
4	Architectural Coating	Architectural Coating	8/7/2021	9/7/2021	5	22	

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

**Acres of Grading (Grading Phase): 242**

**Acres of Paving: 2.39**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 229,500; Non-Residential Outdoor: 76,500; Striped Parking Area: 6,384 (Architectural Coating – sqft)**

#### OffRoad Equipment

## 2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Cranes	1	4.00	231	0.29
Grading	Crawler Tractors	2	4.00	212	0.43
Grading	Excavators	1	4.00	158	0.38
Grading	Graders	3	4.00	187	0.41
Grading	Rollers	1	4.00	80	0.38
Grading	Rubber Tired Dozers	2	4.00	247	0.40
Grading	Scrapers	3	4.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Pavers	1	8.00	130	0.42
Building Construction	Rubber Tired Loaders	1	7.00	203	0.36
Building Construction	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

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
Grading	14	35.00	0.00	6,278.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	11	109.00	43.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	22.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0020	0.0000	6.0020	2.4233	0.0000	2.4233			0.0000			0.0000
Off-Road	4.4195	51.8916	25.3193	0.0574		2.1290	2.1290		1.9587	1.9587		5,559.203 1	5,559.203 1	1.7980		5,604.152 1
<b>Total</b>	<b>4.4195</b>	<b>51.8916</b>	<b>25.3193</b>	<b>0.0574</b>	<b>6.0020</b>	<b>2.1290</b>	<b>8.1310</b>	<b>2.4233</b>	<b>1.9587</b>	<b>4.3819</b>		<b>5,559.203 1</b>	<b>5,559.203 1</b>	<b>1.7980</b>		<b>5,604.152 1</b>



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**3.2 Grading - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4255	13.8526	3.2206	0.0369	0.8316	0.0443	0.8759	0.2280	0.0424	0.2704		4,000.294 4	4,000.294 4	0.2871		4,007.472 6
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1789	0.1269	1.4035	3.8900e-003	0.3912	3.2700e-003	0.3945	0.1038	3.0100e-003	0.1068		387.5971	387.5971	0.0122		387.9026
<b>Total</b>	<b>0.6044</b>	<b>13.9795</b>	<b>4.6241</b>	<b>0.0408</b>	<b>1.2228</b>	<b>0.0476</b>	<b>1.2704</b>	<b>0.3317</b>	<b>0.0454</b>	<b>0.3771</b>		<b>4,387.891 5</b>	<b>4,387.891 5</b>	<b>0.2994</b>		<b>4,395.375 2</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.2237	0.0000	2.2237	0.8978	0.0000	0.8978			0.0000			0.0000
Off-Road	4.4195	51.8916	25.3193	0.0574		2.1290	2.1290		1.9587	1.9587	0.0000	5,559.203 1	5,559.203 1	1.7980		5,604.152 1
<b>Total</b>	<b>4.4195</b>	<b>51.8916</b>	<b>25.3193</b>	<b>0.0574</b>	<b>2.2237</b>	<b>2.1290</b>	<b>4.3527</b>	<b>0.8978</b>	<b>1.9587</b>	<b>2.8565</b>	<b>0.0000</b>	<b>5,559.203 1</b>	<b>5,559.203 1</b>	<b>1.7980</b>		<b>5,604.152 1</b>

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**3.2 Grading - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4255	13.8526	3.2206	0.0369	0.6681	0.0443	0.7124	0.1878	0.0424	0.2302		4,000.294 4	4,000.294 4	0.2871		4,007.472 6
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1789	0.1269	1.4035	3.8900e-003	0.3028	3.2700e-003	0.3061	0.0821	3.0100e-003	0.0851		387.5971	387.5971	0.0122		387.9026
<b>Total</b>	<b>0.6044</b>	<b>13.9795</b>	<b>4.6241</b>	<b>0.0408</b>	<b>0.9709</b>	<b>0.0476</b>	<b>1.0185</b>	<b>0.2699</b>	<b>0.0454</b>	<b>0.3153</b>		<b>4,387.891 5</b>	<b>4,387.891 5</b>	<b>0.2994</b>		<b>4,395.375 2</b>

**3.3 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7191	25.8991	21.8809	0.0388		1.3489	1.3489		1.2636	1.2636		3,699.603 9	3,699.603 9	0.9937		3,724.445 7
<b>Total</b>	<b>2.7191</b>	<b>25.8991</b>	<b>21.8809</b>	<b>0.0388</b>		<b>1.3489</b>	<b>1.3489</b>		<b>1.2636</b>	<b>1.2636</b>		<b>3,699.603 9</b>	<b>3,699.603 9</b>	<b>0.9937</b>		<b>3,724.445 7</b>

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

**3.3 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1599	4.5731	1.3218	0.0109	0.2753	0.0219	0.2972	0.0793	0.0209	0.1002		1,158.6310	1,158.6310	0.0775		1,160.5679
Worker	0.5570	0.3951	4.3710	0.0121	1.2184	0.0102	1.2286	0.3231	9.3800e-003	0.3325		1,207.0882	1,207.0882	0.0381		1,208.0394
<b>Total</b>	<b>0.7169</b>	<b>4.9682</b>	<b>5.6928</b>	<b>0.0230</b>	<b>1.4937</b>	<b>0.0321</b>	<b>1.5257</b>	<b>0.4024</b>	<b>0.0303</b>	<b>0.4327</b>		<b>2,365.7192</b>	<b>2,365.7192</b>	<b>0.1155</b>		<b>2,368.6073</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.7191	25.8991	21.8809	0.0388		1.3489	1.3489		1.2636	1.2636	0.0000	3,699.6039	3,699.6039	0.9937		3,724.4457
<b>Total</b>	<b>2.7191</b>	<b>25.8991</b>	<b>21.8809</b>	<b>0.0388</b>		<b>1.3489</b>	<b>1.3489</b>		<b>1.2636</b>	<b>1.2636</b>	<b>0.0000</b>	<b>3,699.6039</b>	<b>3,699.6039</b>	<b>0.9937</b>		<b>3,724.4457</b>

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

**3.3 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1599	4.5731	1.3218	0.0109	0.2243	0.0219	0.2462	0.0667	0.0209	0.0877		1,158.6310	1,158.6310	0.0775		1,160.5679
Worker	0.5570	0.3951	4.3710	0.0121	0.9430	0.0102	0.9532	0.2555	9.3800e-003	0.2649		1,207.0882	1,207.0882	0.0381		1,208.0394
<b>Total</b>	<b>0.7169</b>	<b>4.9682</b>	<b>5.6928</b>	<b>0.0230</b>	<b>1.1673</b>	<b>0.0321</b>	<b>1.1993</b>	<b>0.3223</b>	<b>0.0303</b>	<b>0.3526</b>		<b>2,365.7192</b>	<b>2,365.7192</b>	<b>0.1155</b>		<b>2,368.6073</b>

**3.3 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4658	23.4286	21.6079	0.0388		1.1755	1.1755		1.1008	1.1008		3,699.6771	3,699.6771	0.9868		3,724.3460
<b>Total</b>	<b>2.4658</b>	<b>23.4286</b>	<b>21.6079</b>	<b>0.0388</b>		<b>1.1755</b>	<b>1.1755</b>		<b>1.1008</b>	<b>1.1008</b>		<b>3,699.6771</b>	<b>3,699.6771</b>	<b>0.9868</b>		<b>3,724.3460</b>

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**3.3 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1372	4.1662	1.2073	0.0108	0.2753	8.8100e-003	0.2841	0.0793	8.4300e-003	0.0877		1,149.5858	1,149.5858	0.0742		1,151.4411
Worker	0.5197	0.3555	4.0140	0.0117	1.2184	9.8400e-003	1.2282	0.3231	9.0700e-003	0.3322		1,168.7537	1,168.7537	0.0344		1,169.6135
<b>Total</b>	<b>0.6569</b>	<b>4.5217</b>	<b>5.2213</b>	<b>0.0225</b>	<b>1.4937</b>	<b>0.0187</b>	<b>1.5123</b>	<b>0.4024</b>	<b>0.0175</b>	<b>0.4199</b>		<b>2,318.3395</b>	<b>2,318.3395</b>	<b>0.1086</b>		<b>2,321.0546</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4658	23.4286	21.6079	0.0388		1.1755	1.1755		1.1008	1.1008	0.0000	3,699.6771	3,699.6771	0.9868		3,724.3460
<b>Total</b>	<b>2.4658</b>	<b>23.4286</b>	<b>21.6079</b>	<b>0.0388</b>		<b>1.1755</b>	<b>1.1755</b>		<b>1.1008</b>	<b>1.1008</b>	<b>0.0000</b>	<b>3,699.6771</b>	<b>3,699.6771</b>	<b>0.9868</b>		<b>3,724.3460</b>

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

**3.3 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1372	4.1662	1.2073	0.0108	0.2243	8.8100e-003	0.2331	0.0667	8.4300e-003	0.0752		1,149.5858	1,149.5858	0.0742		1,151.4411
Worker	0.5197	0.3555	4.0140	0.0117	0.9430	9.8400e-003	0.9528	0.2555	9.0700e-003	0.2646		1,168.7537	1,168.7537	0.0344		1,169.6135
<b>Total</b>	<b>0.6569</b>	<b>4.5217</b>	<b>5.2213</b>	<b>0.0225</b>	<b>1.1673</b>	<b>0.0187</b>	<b>1.1859</b>	<b>0.3223</b>	<b>0.0175</b>	<b>0.3398</b>		<b>2,318.3395</b>	<b>2,318.3395</b>	<b>0.1086</b>		<b>2,321.0546</b>

**3.4 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7682	7.8814	9.0218	0.0137		0.4227	0.4227		0.3889	0.3889		1,329.2805	1,329.2805	0.4299		1,340.0284
Paving	0.2846					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0529</b>	<b>7.8814</b>	<b>9.0218</b>	<b>0.0137</b>		<b>0.4227</b>	<b>0.4227</b>		<b>0.3889</b>	<b>0.3889</b>		<b>1,329.2805</b>	<b>1,329.2805</b>	<b>0.4299</b>		<b>1,340.0284</b>

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

**3.4 Paving - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0477	0.0326	0.3683	1.0800e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		107.2251	107.2251	3.1600e-003		107.3040
<b>Total</b>	<b>0.0477</b>	<b>0.0326</b>	<b>0.3683</b>	<b>1.0800e-003</b>	<b>0.1118</b>	<b>9.0000e-004</b>	<b>0.1127</b>	<b>0.0296</b>	<b>8.3000e-004</b>	<b>0.0305</b>		<b>107.2251</b>	<b>107.2251</b>	<b>3.1600e-003</b>		<b>107.3040</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	0.7682	7.8814	9.0218	0.0137		0.4227	0.4227		0.3889	0.3889	0.0000	1,329.2805	1,329.2805	0.4299		1,340.0284
Paving	0.2846					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0529</b>	<b>7.8814</b>	<b>9.0218</b>	<b>0.0137</b>		<b>0.4227</b>	<b>0.4227</b>		<b>0.3889</b>	<b>0.3889</b>	<b>0.0000</b>	<b>1,329.2805</b>	<b>1,329.2805</b>	<b>0.4299</b>		<b>1,340.0284</b>

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

**3.4 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0477	0.0326	0.3683	1.0800e-003	0.0865	9.0000e-004	0.0874	0.0234	8.3000e-004	0.0243		107.2251	107.2251	3.1600e-003		107.3040
<b>Total</b>	<b>0.0477</b>	<b>0.0326</b>	<b>0.3683</b>	<b>1.0800e-003</b>	<b>0.0865</b>	<b>9.0000e-004</b>	<b>0.0874</b>	<b>0.0234</b>	<b>8.3000e-004</b>	<b>0.0243</b>		<b>107.2251</b>	<b>107.2251</b>	<b>3.1600e-003</b>		<b>107.3040</b>

**3.5 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	65.8136					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>66.0325</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>



2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

**3.5 Architectural Coating - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1049	0.0718	0.8102	2.3700e-003	0.2459	1.9900e-003	0.2479	0.0652	1.8300e-003	0.0671		235.8952	235.8952	6.9400e-003		236.0688
<b>Total</b>	<b>0.1049</b>	<b>0.0718</b>	<b>0.8102</b>	<b>2.3700e-003</b>	<b>0.2459</b>	<b>1.9900e-003</b>	<b>0.2479</b>	<b>0.0652</b>	<b>1.8300e-003</b>	<b>0.0671</b>		<b>235.8952</b>	<b>235.8952</b>	<b>6.9400e-003</b>		<b>236.0688</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	65.8136					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>66.0325</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

**3.5 Architectural Coating - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1049	0.0718	0.8102	2.3700e-003	0.1903	1.9900e-003	0.1923	0.0516	1.8300e-003	0.0534		235.8952	235.8952	6.9400e-003		236.0688
<b>Total</b>	<b>0.1049</b>	<b>0.0718</b>	<b>0.8102</b>	<b>2.3700e-003</b>	<b>0.1903</b>	<b>1.9900e-003</b>	<b>0.1923</b>	<b>0.0516</b>	<b>1.8300e-003</b>	<b>0.0534</b>		<b>235.8952</b>	<b>235.8952</b>	<b>6.9400e-003</b>		<b>236.0688</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.7113	29.6320	83.8253	0.2987	25.1259	0.2579	25.3838	6.7244	0.2408	6.9652		30,380.8644	30,380.8644	1.6085		30,421.0778
Unmitigated	5.7113	29.6320	83.8253	0.2987	25.1259	0.2579	25.3838	6.7244	0.2408	6.9652		30,380.8644	30,380.8644	1.6085		30,421.0778

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	2,668.32	2,668.32	2,668.32	11,816,061	11,816,061
Parking Lot	0.00	0.00	0.00		
Total	2,668.32	2,668.32	2,668.32	11,816,061	11,816,061

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
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Parking Lot	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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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	lb/day										lb/day					
NaturalGas Mitigated	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
NaturalGas Unmitigated	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	7587.12	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0818</b>	<b>0.7438</b>	<b>0.6248</b>	<b>4.4600e-003</b>		<b>0.0565</b>	<b>0.0565</b>		<b>0.0565</b>	<b>0.0565</b>		<b>892.6027</b>	<b>892.6027</b>	<b>0.0171</b>	<b>0.0164</b>	<b>897.9070</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	7.58712	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0818</b>	<b>0.7438</b>	<b>0.6248</b>	<b>4.4600e-003</b>		<b>0.0565</b>	<b>0.0565</b>		<b>0.0565</b>	<b>0.0565</b>		<b>892.6027</b>	<b>892.6027</b>	<b>0.0171</b>	<b>0.0164</b>	<b>897.9070</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Unmitigated	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978

**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	0.3967					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0671					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0100e-003	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
<b>Total</b>	<b>3.4678</b>	<b>3.9000e-004</b>	<b>0.0430</b>	<b>0.0000</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>0.0917</b>	<b>0.0917</b>	<b>2.4000e-004</b>		<b>0.0978</b>

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	lb/day										lb/day						
Architectural Coating	0.3967					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Consumer Products	3.0671					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Landscaping	4.0100e-003	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004			0.0978
<b>Total</b>	<b>3.4678</b>	<b>3.9000e-004</b>	<b>0.0430</b>	<b>0.0000</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>0.0917</b>	<b>0.0917</b>	<b>2.4000e-004</b>			<b>0.0978</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**9.0 Operational Offroad**

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

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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