

P201700730 Oak Hills - TPM19880 - Mojave Desert AQMD Air District, Summer

**P201700730 Oak Hills - TPM19880**  
**Mojave Desert AQMD Air District, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	4.00	Dwelling Unit	10.00	7,200.00	11

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	10			<b>Operational Year</b>	2020
<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 - TPM 10 acres into 4 - 2.5 acre lots for future SFR development

Land Use - Per project description tentative parcel map, single family residential 4 lots on approx 10 acres

Construction Phase - No demolition phase. Architectural Coating increased from default as homes will not be coated and completed at the same time.

Off-road Equipment - Air Compressors increased from default to better reflect the project size and requirements.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Architectural Coating - Per MDAQMD Rule 1113 coatings limited to 150 grams per liter or less

Vehicle Trips - trip rate from Project Trip Generation Summary

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - Changed fireplaces to 0

Area Coating - Area arch coating changed from default 250 g/L to 150 g/L to comply with MDAQMD Rules

Construction Off-road Equipment Mitigation - Clean paved roads per bmp's for fugitive dust control

Area Mitigation -

Fleet Mix - Fleet data includes information from project specific Trip Generation Summary

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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblArchitecturalCoating	EF_Parking	250.00	150.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	150.00
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	10
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	25
tblLandUse	LotAcreage	1.30	10.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

## 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	6.3475	0.1234	7.8875	0.0137		1.0613	1.0613		1.0613	1.0613	111.0869	47.1824	158.2694	0.1031	8.7400e-003	163.4506
Energy	3.6200e-003	0.0309	0.0132	2.0000e-004		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003		39.4471	39.4471	7.6000e-004	7.2000e-004	39.6815
Mobile	0.1188	0.8518	1.3458	4.9100e-003	0.3102	3.6100e-003	0.3138	0.0830	3.4000e-003	0.0864		500.2849	500.2849	0.0340		501.1346
<b>Total</b>	<b>6.4699</b>	<b>1.0060</b>	<b>9.2465</b>	<b>0.0188</b>	<b>0.3102</b>	<b>1.0674</b>	<b>1.3776</b>	<b>0.0830</b>	<b>1.0672</b>	<b>1.1502</b>	<b>111.0869</b>	<b>586.9144</b>	<b>698.0014</b>	<b>0.1378</b>	<b>9.4600e-003</b>	<b>704.2667</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	0.2259	3.8300e-003	0.3311	2.0000e-005		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003	0.0000	0.5942	0.5942	5.8000e-004	0.0000	0.6087
Energy	3.6200e-003	0.0309	0.0132	2.0000e-004		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003		39.4471	39.4471	7.6000e-004	7.2000e-004	39.6815
Mobile	0.1188	0.8518	1.3458	4.9100e-003	0.3102	3.6100e-003	0.3138	0.0830	3.4000e-003	0.0864		500.2849	500.2849	0.0340		501.1346
<b>Total</b>	<b>0.3483</b>	<b>0.8865</b>	<b>1.6901</b>	<b>5.1300e-003</b>	<b>0.3102</b>	<b>7.9300e-003</b>	<b>0.3182</b>	<b>0.0830</b>	<b>7.7200e-003</b>	<b>0.0908</b>	<b>0.0000</b>	<b>540.3262</b>	<b>540.3262</b>	<b>0.0353</b>	<b>7.2000e-004</b>	<b>541.4248</b>

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	94.62	11.88	81.72	72.74	0.00	99.26	76.91	0.00	99.28	92.11	100.00	7.94	22.59	74.37	92.39	23.12

### 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	Site Preparation	Site Preparation	1/7/2019	1/18/2019	5	10	
2	Grading	Grading	1/19/2019	2/15/2019	5	20	
3	Building Construction	Building Construction	2/16/2019	1/3/2020	5	230	
4	Paving	Paving	1/4/2020	1/31/2020	5	20	
5	Architectural Coating	Architectural Coating	2/1/2020	2/28/2020	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 50

Acres of Paving: 0

Residential Indoor: 14,580; Residential Outdoor: 4,860; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; 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
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

**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
Site Preparation	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

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**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Site Preparation - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
<b>Total</b>	<b>4.3350</b>	<b>45.5727</b>	<b>22.0630</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.3904</b>	<b>20.4566</b>	<b>9.9307</b>	<b>2.1991</b>	<b>12.1298</b>		<b>3,766.4529</b>	<b>3,766.4529</b>	<b>1.1917</b>		<b>3,796.2445</b>



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**3.2 Site Preparation - 2019**

**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	0.1306	0.0936	1.0790	2.4000e-003	0.2299	1.4300e-003	0.2314	0.0610	1.3200e-003	0.0623		239.0225	239.0225	9.0100e-003		239.2478
<b>Total</b>	<b>0.1306</b>	<b>0.0936</b>	<b>1.0790</b>	<b>2.4000e-003</b>	<b>0.2299</b>	<b>1.4300e-003</b>	<b>0.2314</b>	<b>0.0610</b>	<b>1.3200e-003</b>	<b>0.0623</b>		<b>239.0225</b>	<b>239.0225</b>	<b>9.0100e-003</b>		<b>239.2478</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
<b>Total</b>	<b>4.3350</b>	<b>45.5727</b>	<b>22.0630</b>	<b>0.0380</b>	<b>7.0458</b>	<b>2.3904</b>	<b>9.4362</b>	<b>3.8730</b>	<b>2.1991</b>	<b>6.0721</b>	<b>0.0000</b>	<b>3,766.4529</b>	<b>3,766.4529</b>	<b>1.1917</b>		<b>3,796.2445</b>

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**3.2 Site Preparation - 2019**

**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	0.1306	0.0936	1.0790	2.4000e-003	0.2099	1.4300e-003	0.2114	0.0561	1.3200e-003	0.0574		239.0225	239.0225	9.0100e-003		239.2478
<b>Total</b>	<b>0.1306</b>	<b>0.0936</b>	<b>1.0790</b>	<b>2.4000e-003</b>	<b>0.2099</b>	<b>1.4300e-003</b>	<b>0.2114</b>	<b>0.0561</b>	<b>1.3200e-003</b>	<b>0.0574</b>		<b>239.0225</b>	<b>239.0225</b>	<b>9.0100e-003</b>		<b>239.2478</b>

**3.3 Grading - 2019**

**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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.0195	6,140.0195	1.9426		6,188.5854
<b>Total</b>	<b>4.7389</b>	<b>54.5202</b>	<b>33.3768</b>	<b>0.0620</b>	<b>8.6733</b>	<b>2.3827</b>	<b>11.0560</b>	<b>3.5965</b>	<b>2.1920</b>	<b>5.7885</b>		<b>6,140.0195</b>	<b>6,140.0195</b>	<b>1.9426</b>		<b>6,188.5854</b>

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**3.3 Grading - 2019**

**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	0.1451	0.1040	1.1988	2.6700e-003	0.2555	1.5900e-003	0.2571	0.0678	1.4700e-003	0.0692		265.5806	265.5806	0.0100		265.8308
<b>Total</b>	<b>0.1451</b>	<b>0.1040</b>	<b>1.1988</b>	<b>2.6700e-003</b>	<b>0.2555</b>	<b>1.5900e-003</b>	<b>0.2571</b>	<b>0.0678</b>	<b>1.4700e-003</b>	<b>0.0692</b>		<b>265.5806</b>	<b>265.5806</b>	<b>0.0100</b>		<b>265.8308</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					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854
<b>Total</b>	<b>4.7389</b>	<b>54.5202</b>	<b>33.3768</b>	<b>0.0620</b>	<b>3.3826</b>	<b>2.3827</b>	<b>5.7653</b>	<b>1.4026</b>	<b>2.1920</b>	<b>3.5947</b>	<b>0.0000</b>	<b>6,140.0195</b>	<b>6,140.0195</b>	<b>1.9426</b>		<b>6,188.5854</b>

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**3.3 Grading - 2019**

**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	0.1451	0.1040	1.1988	2.6700e-003	0.2333	1.5900e-003	0.2348	0.0623	1.4700e-003	0.0638		265.5806	265.5806	0.0100		265.8308
<b>Total</b>	<b>0.1451</b>	<b>0.1040</b>	<b>1.1988</b>	<b>2.6700e-003</b>	<b>0.2333</b>	<b>1.5900e-003</b>	<b>0.2348</b>	<b>0.0623</b>	<b>1.4700e-003</b>	<b>0.0638</b>		<b>265.5806</b>	<b>265.5806</b>	<b>0.0100</b>		<b>265.8308</b>

**3.4 Building Construction - 2019**

**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	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
<b>Total</b>	<b>2.3612</b>	<b>21.0788</b>	<b>17.1638</b>	<b>0.0269</b>		<b>1.2899</b>	<b>1.2899</b>		<b>1.2127</b>	<b>1.2127</b>		<b>2,591.5802</b>	<b>2,591.5802</b>	<b>0.6313</b>		<b>2,607.3635</b>

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**3.4 Building Construction - 2019**

**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	7.2500e-003	5.2000e-003	0.0599	1.3000e-004	0.0128	8.0000e-005	0.0129	3.3900e-003	7.0000e-005	3.4600e-003		13.2790	13.2790	5.0000e-004		13.2915
<b>Total</b>	<b>7.2500e-003</b>	<b>5.2000e-003</b>	<b>0.0599</b>	<b>1.3000e-004</b>	<b>0.0128</b>	<b>8.0000e-005</b>	<b>0.0129</b>	<b>3.3900e-003</b>	<b>7.0000e-005</b>	<b>3.4600e-003</b>		<b>13.2790</b>	<b>13.2790</b>	<b>5.0000e-004</b>		<b>13.2915</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	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
<b>Total</b>	<b>2.3612</b>	<b>21.0788</b>	<b>17.1638</b>	<b>0.0269</b>		<b>1.2899</b>	<b>1.2899</b>		<b>1.2127</b>	<b>1.2127</b>	<b>0.0000</b>	<b>2,591.5802</b>	<b>2,591.5802</b>	<b>0.6313</b>		<b>2,607.3635</b>

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**3.4 Building Construction - 2019**

**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	7.2500e-003	5.2000e-003	0.0599	1.3000e-004	0.0117	8.0000e-005	0.0117	3.1100e-003	7.0000e-005	3.1900e-003		13.2790	13.2790	5.0000e-004		13.2915
<b>Total</b>	<b>7.2500e-003</b>	<b>5.2000e-003</b>	<b>0.0599</b>	<b>1.3000e-004</b>	<b>0.0117</b>	<b>8.0000e-005</b>	<b>0.0117</b>	<b>3.1100e-003</b>	<b>7.0000e-005</b>	<b>3.1900e-003</b>		<b>13.2790</b>	<b>13.2790</b>	<b>5.0000e-004</b>		<b>13.2915</b>

**3.4 Building Construction - 2020**

**Unmitigated Construction On-Site**

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

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**3.4 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	6.6400e-003	4.6000e-003	0.0536	1.3000e-004	0.0128	8.0000e-005	0.0129	3.3900e-003	7.0000e-005	3.4600e-003		12.8639	12.8639	4.4000e-004		12.8748
<b>Total</b>	<b>6.6400e-003</b>	<b>4.6000e-003</b>	<b>0.0536</b>	<b>1.3000e-004</b>	<b>0.0128</b>	<b>8.0000e-005</b>	<b>0.0129</b>	<b>3.3900e-003</b>	<b>7.0000e-005</b>	<b>3.4600e-003</b>		<b>12.8639</b>	<b>12.8639</b>	<b>4.4000e-004</b>		<b>12.8748</b>

**Mitigated Construction On-Site**

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

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**3.4 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	6.6400e-003	4.6000e-003	0.0536	1.3000e-004	0.0117	8.0000e-005	0.0117	3.1100e-003	7.0000e-005	3.1900e-003		12.8639	12.8639	4.4000e-004		12.8748
<b>Total</b>	<b>6.6400e-003</b>	<b>4.6000e-003</b>	<b>0.0536</b>	<b>1.3000e-004</b>	<b>0.0117</b>	<b>8.0000e-005</b>	<b>0.0117</b>	<b>3.1100e-003</b>	<b>7.0000e-005</b>	<b>3.1900e-003</b>		<b>12.8639</b>	<b>12.8639</b>	<b>4.4000e-004</b>		<b>12.8748</b>

**3.5 Paving - 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	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3566</b>	<b>14.0656</b>	<b>14.6521</b>	<b>0.0228</b>		<b>0.7528</b>	<b>0.7528</b>		<b>0.6926</b>	<b>0.6926</b>		<b>2,207.7334</b>	<b>2,207.7334</b>	<b>0.7140</b>		<b>2,225.5841</b>



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**3.5 Paving - 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	0.0000	0.0000	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	0.0996	0.0690	0.8034	1.9400e-003	0.1916	1.1600e-003	0.1928	0.0508	1.0700e-003	0.0519		192.9583	192.9583	6.5600e-003		193.1223
<b>Total</b>	<b>0.0996</b>	<b>0.0690</b>	<b>0.8034</b>	<b>1.9400e-003</b>	<b>0.1916</b>	<b>1.1600e-003</b>	<b>0.1928</b>	<b>0.0508</b>	<b>1.0700e-003</b>	<b>0.0519</b>		<b>192.9583</b>	<b>192.9583</b>	<b>6.5600e-003</b>		<b>193.1223</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3566</b>	<b>14.0656</b>	<b>14.6521</b>	<b>0.0228</b>		<b>0.7528</b>	<b>0.7528</b>		<b>0.6926</b>	<b>0.6926</b>	<b>0.0000</b>	<b>2,207.7334</b>	<b>2,207.7334</b>	<b>0.7140</b>		<b>2,225.5841</b>

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**3.5 Paving - 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	0.0000	0.0000	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	0.0996	0.0690	0.8034	1.9400e-003	0.1749	1.1600e-003	0.1761	0.0467	1.0700e-003	0.0478		192.9583	192.9583	6.5600e-003		193.1223
<b>Total</b>	<b>0.0996</b>	<b>0.0690</b>	<b>0.8034</b>	<b>1.9400e-003</b>	<b>0.1749</b>	<b>1.1600e-003</b>	<b>0.1761</b>	<b>0.0467</b>	<b>1.0700e-003</b>	<b>0.0478</b>		<b>192.9583</b>	<b>192.9583</b>	<b>6.5600e-003</b>		<b>193.1223</b>

**3.6 Architectural Coating - 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					
Archit. Coating	6.7578					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>7.0000</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

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**3.6 Architectural Coating - 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	0.0000	0.0000	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	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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>

**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	6.7578					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>7.0000</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

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**3.6 Architectural Coating - 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	0.0000	0.0000	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	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

P201700730 Oak Hills - TPM19880 - Mojave Desert AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1188	0.8518	1.3458	4.9100e-003	0.3102	3.6100e-003	0.3138	0.0830	3.4000e-003	0.0864		500.2849	500.2849	0.0340		501.1346
Unmitigated	0.1188	0.8518	1.3458	4.9100e-003	0.3102	3.6100e-003	0.3138	0.0830	3.4000e-003	0.0864		500.2849	500.2849	0.0340		501.1346

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	38.08	39.64	34.48	138,283	138,283
Total	38.08	39.64	34.48	138,283	138,283

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
Single Family Housing	16.80	7.10	7.90	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.533808	0.036979	0.174634	0.113643	0.020106	0.005748	0.008732	0.091632	0.001423	0.002308	0.009089	0.000713	0.001184

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	lb/day										lb/day					
NaturalGas Mitigated	3.6200e-003	0.0309	0.0132	2.0000e-004		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003		39.4471	39.4471	7.6000e-004	7.2000e-004	39.6815
NaturalGas Unmitigated	3.6200e-003	0.0309	0.0132	2.0000e-004		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003		39.4471	39.4471	7.6000e-004	7.2000e-004	39.6815

**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					
Single Family Housing	335.3	3.6200e-003	0.0309	0.0132	2.0000e-004		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003		39.4471	39.4471	7.6000e-004	7.2000e-004	39.6815
<b>Total</b>		<b>3.6200e-003</b>	<b>0.0309</b>	<b>0.0132</b>	<b>2.0000e-004</b>		<b>2.5000e-003</b>	<b>2.5000e-003</b>		<b>2.5000e-003</b>	<b>2.5000e-003</b>		<b>39.4471</b>	<b>39.4471</b>	<b>7.6000e-004</b>	<b>7.2000e-004</b>	<b>39.6815</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	0.3353	3.6200e-003	0.0309	0.0132	2.0000e-004		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003		39.4471	39.4471	7.6000e-004	7.2000e-004	39.6815
<b>Total</b>		<b>3.6200e-003</b>	<b>0.0309</b>	<b>0.0132</b>	<b>2.0000e-004</b>		<b>2.5000e-003</b>	<b>2.5000e-003</b>		<b>2.5000e-003</b>	<b>2.5000e-003</b>		<b>39.4471</b>	<b>39.4471</b>	<b>7.6000e-004</b>	<b>7.2000e-004</b>	<b>39.6815</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

No Hearths Installed

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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					
Mitigated	0.2259	3.8300e-003	0.3311	2.0000e-005		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003	0.0000	0.5942	0.5942	5.8000e-004	0.0000	0.6087
Unmitigated	6.3475	0.1234	7.8875	0.0137		1.0613	1.0613		1.0613	1.0613	111.0869	47.1824	158.2694	0.1031	8.7400e-003	163.4506

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	0.0617					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1541					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	6.1216	0.1196	7.5564	0.0137		1.0595	1.0595		1.0595	1.0595	111.0869	46.5882	157.6752	0.1025	8.7400e-003	162.8419
Landscaping	0.0101	3.8300e-003	0.3311	2.0000e-005		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003		0.5942	0.5942	5.8000e-004		0.6087
<b>Total</b>	<b>6.3475</b>	<b>0.1234</b>	<b>7.8875</b>	<b>0.0137</b>		<b>1.0613</b>	<b>1.0613</b>		<b>1.0613</b>	<b>1.0613</b>	<b>111.0869</b>	<b>47.1825</b>	<b>158.2694</b>	<b>0.1031</b>	<b>8.7400e-003</b>	<b>163.4506</b>



P201700730 Oak Hills - TPM19880 - Mojave Desert AQMD Air District, Summer

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0617					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1541					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0101	3.8300e-003	0.3311	2.0000e-005		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003		0.5942	0.5942	5.8000e-004		0.6087
<b>Total</b>	<b>0.2259</b>	<b>3.8300e-003</b>	<b>0.3311</b>	<b>2.0000e-005</b>		<b>1.8200e-003</b>	<b>1.8200e-003</b>		<b>1.8200e-003</b>	<b>1.8200e-003</b>	<b>0.0000</b>	<b>0.5942</b>	<b>0.5942</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>0.6087</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

P201700730 Oak Hills - TPM19880 - Mojave Desert AQMD Air District, Summer

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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P201700730 Oak Hills - TPM19880 - Mojave Desert AQMD Air District, Winter

**P201700730 Oak Hills - TPM19880**  
**Mojave Desert AQMD Air District, Winter**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	4.00	Dwelling Unit	10.00	7,200.00	11

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	10			<b>Operational Year</b>	2020
<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**

P201700730 Oak Hills - TPM19880 - Mojave Desert AQMD Air District, Winter

Project Characteristics - TPM 10 acres into 4 - 2.5 acre lots for future SFR development

Land Use - Per project description tentative parcel map, single family residential 4 lots on approx 10 acres

Construction Phase - No demolition phase. Architectural Coating increased from default as homes will not be coated and completed at the same time.

Off-road Equipment - Air Compressors increased from default to better reflect the project size and requirements.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Architectural Coating - Per MDAQMD Rule 1113 coatings limited to 150 grams per liter or less

Vehicle Trips - trip rate from Project Trip Generation Summary

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - Changed fireplaces to 0

Area Coating - Area arch coating changed from default 250 g/L to 150 g/L to comply with MDAQMD Rules

Construction Off-road Equipment Mitigation - Clean paved roads per bmp's for fugitive dust control

Area Mitigation -

Fleet Mix - Fleet data includes information from project specific Trip Generation Summary

## P201700730 Oak Hills - TPM19880 - Mojave Desert AQMD Air District, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblArchitecturalCoating	EF_Parking	250.00	150.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	150.00
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	10
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	25
tblLandUse	LotAcreage	1.30	10.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

## 2.0 Emissions Summary

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## P201700730 Oak Hills - TPM19880 - Mojave Desert AQMD Air District, 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	6.3475	0.1234	7.8875	0.0137		1.0613	1.0613		1.0613	1.0613	111.0869	47.1824	158.2694	0.1031	8.7400e-003	163.4506
Energy	3.6200e-003	0.0309	0.0132	2.0000e-004		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003		39.4471	39.4471	7.6000e-004	7.2000e-004	39.6815
Mobile	0.1016	0.8459	1.1534	4.4600e-003	0.3102	3.6400e-003	0.3139	0.0830	3.4300e-003	0.0865		455.9340	455.9340	0.0353		456.8162
<b>Total</b>	<b>6.4527</b>	<b>1.0001</b>	<b>9.0541</b>	<b>0.0184</b>	<b>0.3102</b>	<b>1.0674</b>	<b>1.3777</b>	<b>0.0830</b>	<b>1.0672</b>	<b>1.1503</b>	<b>111.0869</b>	<b>542.5635</b>	<b>653.6505</b>	<b>0.1391</b>	<b>9.4600e-003</b>	<b>659.9483</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	0.2259	3.8300e-003	0.3311	2.0000e-005		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003	0.0000	0.5942	0.5942	5.8000e-004	0.0000	0.6087
Energy	3.6200e-003	0.0309	0.0132	2.0000e-004		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003		39.4471	39.4471	7.6000e-004	7.2000e-004	39.6815
Mobile	0.1016	0.8459	1.1534	4.4600e-003	0.3102	3.6400e-003	0.3139	0.0830	3.4300e-003	0.0865		455.9340	455.9340	0.0353		456.8162
<b>Total</b>	<b>0.3311</b>	<b>0.8806</b>	<b>1.4976</b>	<b>4.6800e-003</b>	<b>0.3102</b>	<b>7.9600e-003</b>	<b>0.3182</b>	<b>0.0830</b>	<b>7.7500e-003</b>	<b>0.0908</b>	<b>0.0000</b>	<b>495.9753</b>	<b>495.9753</b>	<b>0.0366</b>	<b>7.2000e-004</b>	<b>497.1064</b>

## P201700730 Oak Hills - TPM19880 - Mojave Desert AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	94.87	11.95	83.46	74.52	0.00	99.25	76.90	0.00	99.27	92.11	100.00	8.59	24.12	73.67	92.39	24.67

### 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	Site Preparation	Site Preparation	1/7/2019	1/18/2019	5	10	
2	Grading	Grading	1/19/2019	2/15/2019	5	20	
3	Building Construction	Building Construction	2/16/2019	1/3/2020	5	230	
4	Paving	Paving	1/4/2020	1/31/2020	5	20	
5	Architectural Coating	Architectural Coating	2/1/2020	2/28/2020	5	20	

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

**Acres of Grading (Grading Phase): 50**

**Acres of Paving: 0**

**Residential Indoor: 14,580; Residential Outdoor: 4,860; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

#### OffRoad Equipment



P201700730 Oak Hills - TPM19880 - Mojave Desert AQMD Air District, Winter

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

**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
Site Preparation	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

P201700730 Oak Hills - TPM19880 - Mojave Desert AQMD Air District, Winter

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Site Preparation - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
<b>Total</b>	<b>4.3350</b>	<b>45.5727</b>	<b>22.0630</b>	<b>0.0380</b>	<b>18.0663</b>	<b>2.3904</b>	<b>20.4566</b>	<b>9.9307</b>	<b>2.1991</b>	<b>12.1298</b>		<b>3,766.4529</b>	<b>3,766.4529</b>	<b>1.1917</b>		<b>3,796.2445</b>

P201700730 Oak Hills - TPM19880 - Mojave Desert AQMD Air District, Winter

**3.2 Site Preparation - 2019**

**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	0.1271	0.0963	0.8438	2.1100e-003	0.2299	1.4300e-003	0.2314	0.0610	1.3200e-003	0.0623		209.7216	209.7216	7.6100e-003		209.9118
<b>Total</b>	<b>0.1271</b>	<b>0.0963</b>	<b>0.8438</b>	<b>2.1100e-003</b>	<b>0.2299</b>	<b>1.4300e-003</b>	<b>0.2314</b>	<b>0.0610</b>	<b>1.3200e-003</b>	<b>0.0623</b>		<b>209.7216</b>	<b>209.7216</b>	<b>7.6100e-003</b>		<b>209.9118</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					7.0458	0.0000	7.0458	3.8730	0.0000	3.8730			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
<b>Total</b>	<b>4.3350</b>	<b>45.5727</b>	<b>22.0630</b>	<b>0.0380</b>	<b>7.0458</b>	<b>2.3904</b>	<b>9.4362</b>	<b>3.8730</b>	<b>2.1991</b>	<b>6.0721</b>	<b>0.0000</b>	<b>3,766.4529</b>	<b>3,766.4529</b>	<b>1.1917</b>		<b>3,796.2445</b>

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**3.2 Site Preparation - 2019**

**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	0.1271	0.0963	0.8438	2.1100e-003	0.2099	1.4300e-003	0.2114	0.0561	1.3200e-003	0.0574		209.7216	209.7216	7.6100e-003		209.9118
<b>Total</b>	<b>0.1271</b>	<b>0.0963</b>	<b>0.8438</b>	<b>2.1100e-003</b>	<b>0.2099</b>	<b>1.4300e-003</b>	<b>0.2114</b>	<b>0.0561</b>	<b>1.3200e-003</b>	<b>0.0574</b>		<b>209.7216</b>	<b>209.7216</b>	<b>7.6100e-003</b>		<b>209.9118</b>

**3.3 Grading - 2019**

**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					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920		6,140.0195	6,140.0195	1.9426		6,188.5854
<b>Total</b>	<b>4.7389</b>	<b>54.5202</b>	<b>33.3768</b>	<b>0.0620</b>	<b>8.6733</b>	<b>2.3827</b>	<b>11.0560</b>	<b>3.5965</b>	<b>2.1920</b>	<b>5.7885</b>		<b>6,140.0195</b>	<b>6,140.0195</b>	<b>1.9426</b>		<b>6,188.5854</b>

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**3.3 Grading - 2019**

**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	0.1412	0.1070	0.9376	2.3400e-003	0.2555	1.5900e-003	0.2571	0.0678	1.4700e-003	0.0692		233.0240	233.0240	8.4500e-003		233.2353
<b>Total</b>	<b>0.1412</b>	<b>0.1070</b>	<b>0.9376</b>	<b>2.3400e-003</b>	<b>0.2555</b>	<b>1.5900e-003</b>	<b>0.2571</b>	<b>0.0678</b>	<b>1.4700e-003</b>	<b>0.0692</b>		<b>233.0240</b>	<b>233.0240</b>	<b>8.4500e-003</b>		<b>233.2353</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					3.3826	0.0000	3.3826	1.4026	0.0000	1.4026			0.0000			0.0000
Off-Road	4.7389	54.5202	33.3768	0.0620		2.3827	2.3827		2.1920	2.1920	0.0000	6,140.0195	6,140.0195	1.9426		6,188.5854
<b>Total</b>	<b>4.7389</b>	<b>54.5202</b>	<b>33.3768</b>	<b>0.0620</b>	<b>3.3826</b>	<b>2.3827</b>	<b>5.7653</b>	<b>1.4026</b>	<b>2.1920</b>	<b>3.5947</b>	<b>0.0000</b>	<b>6,140.0195</b>	<b>6,140.0195</b>	<b>1.9426</b>		<b>6,188.5854</b>

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**3.3 Grading - 2019**

**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	0.1412	0.1070	0.9376	2.3400e-003	0.2333	1.5900e-003	0.2348	0.0623	1.4700e-003	0.0638		233.0240	233.0240	8.4500e-003		233.2353
<b>Total</b>	<b>0.1412</b>	<b>0.1070</b>	<b>0.9376</b>	<b>2.3400e-003</b>	<b>0.2333</b>	<b>1.5900e-003</b>	<b>0.2348</b>	<b>0.0623</b>	<b>1.4700e-003</b>	<b>0.0638</b>		<b>233.0240</b>	<b>233.0240</b>	<b>8.4500e-003</b>		<b>233.2353</b>

**3.4 Building Construction - 2019**

**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	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
<b>Total</b>	<b>2.3612</b>	<b>21.0788</b>	<b>17.1638</b>	<b>0.0269</b>		<b>1.2899</b>	<b>1.2899</b>		<b>1.2127</b>	<b>1.2127</b>		<b>2,591.5802</b>	<b>2,591.5802</b>	<b>0.6313</b>		<b>2,607.3635</b>

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**3.4 Building Construction - 2019**

**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	7.0600e-003	5.3500e-003	0.0469	1.2000e-004	0.0128	8.0000e-005	0.0129	3.3900e-003	7.0000e-005	3.4600e-003		11.6512	11.6512	4.2000e-004		11.6618
<b>Total</b>	<b>7.0600e-003</b>	<b>5.3500e-003</b>	<b>0.0469</b>	<b>1.2000e-004</b>	<b>0.0128</b>	<b>8.0000e-005</b>	<b>0.0129</b>	<b>3.3900e-003</b>	<b>7.0000e-005</b>	<b>3.4600e-003</b>		<b>11.6512</b>	<b>11.6512</b>	<b>4.2000e-004</b>		<b>11.6618</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	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
<b>Total</b>	<b>2.3612</b>	<b>21.0788</b>	<b>17.1638</b>	<b>0.0269</b>		<b>1.2899</b>	<b>1.2899</b>		<b>1.2127</b>	<b>1.2127</b>	<b>0.0000</b>	<b>2,591.5802</b>	<b>2,591.5802</b>	<b>0.6313</b>		<b>2,607.3635</b>

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**3.4 Building Construction - 2019**

**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	7.0600e-003	5.3500e-003	0.0469	1.2000e-004	0.0117	8.0000e-005	0.0117	3.1100e-003	7.0000e-005	3.1900e-003		11.6512	11.6512	4.2000e-004		11.6618
<b>Total</b>	<b>7.0600e-003</b>	<b>5.3500e-003</b>	<b>0.0469</b>	<b>1.2000e-004</b>	<b>0.0117</b>	<b>8.0000e-005</b>	<b>0.0117</b>	<b>3.1100e-003</b>	<b>7.0000e-005</b>	<b>3.1900e-003</b>		<b>11.6512</b>	<b>11.6512</b>	<b>4.2000e-004</b>		<b>11.6618</b>

**3.4 Building Construction - 2020**

**Unmitigated Construction On-Site**

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



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**3.4 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	6.4900e-003	4.7300e-003	0.0418	1.1000e-004	0.0128	8.0000e-005	0.0129	3.3900e-003	7.0000e-005	3.4600e-003		11.2862	11.2862	3.7000e-004		11.2954
<b>Total</b>	<b>6.4900e-003</b>	<b>4.7300e-003</b>	<b>0.0418</b>	<b>1.1000e-004</b>	<b>0.0128</b>	<b>8.0000e-005</b>	<b>0.0129</b>	<b>3.3900e-003</b>	<b>7.0000e-005</b>	<b>3.4600e-003</b>		<b>11.2862</b>	<b>11.2862</b>	<b>3.7000e-004</b>		<b>11.2954</b>

**Mitigated Construction On-Site**

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

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**3.4 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	6.4900e-003	4.7300e-003	0.0418	1.1000e-004	0.0117	8.0000e-005	0.0117	3.1100e-003	7.0000e-005	3.1900e-003		11.2862	11.2862	3.7000e-004		11.2954
<b>Total</b>	<b>6.4900e-003</b>	<b>4.7300e-003</b>	<b>0.0418</b>	<b>1.1000e-004</b>	<b>0.0117</b>	<b>8.0000e-005</b>	<b>0.0117</b>	<b>3.1100e-003</b>	<b>7.0000e-005</b>	<b>3.1900e-003</b>		<b>11.2862</b>	<b>11.2862</b>	<b>3.7000e-004</b>		<b>11.2954</b>

**3.5 Paving - 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	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926		2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3566</b>	<b>14.0656</b>	<b>14.6521</b>	<b>0.0228</b>		<b>0.7528</b>	<b>0.7528</b>		<b>0.6926</b>	<b>0.6926</b>		<b>2,207.7334</b>	<b>2,207.7334</b>	<b>0.7140</b>		<b>2,225.5841</b>

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**3.5 Paving - 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	0.0000	0.0000	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	0.0973	0.0709	0.6269	1.7000e-003	0.1916	1.1600e-003	0.1928	0.0508	1.0700e-003	0.0519		169.2923	169.2923	5.5400e-003		169.4308
<b>Total</b>	<b>0.0973</b>	<b>0.0709</b>	<b>0.6269</b>	<b>1.7000e-003</b>	<b>0.1916</b>	<b>1.1600e-003</b>	<b>0.1928</b>	<b>0.0508</b>	<b>1.0700e-003</b>	<b>0.0519</b>		<b>169.2923</b>	<b>169.2923</b>	<b>5.5400e-003</b>		<b>169.4308</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3566	14.0656	14.6521	0.0228		0.7528	0.7528		0.6926	0.6926	0.0000	2,207.7334	2,207.7334	0.7140		2,225.5841
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.3566</b>	<b>14.0656</b>	<b>14.6521</b>	<b>0.0228</b>		<b>0.7528</b>	<b>0.7528</b>		<b>0.6926</b>	<b>0.6926</b>	<b>0.0000</b>	<b>2,207.7334</b>	<b>2,207.7334</b>	<b>0.7140</b>		<b>2,225.5841</b>

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**3.5 Paving - 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	0.0000	0.0000	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	0.0973	0.0709	0.6269	1.7000e-003	0.1749	1.1600e-003	0.1761	0.0467	1.0700e-003	0.0478		169.2923	169.2923	5.5400e-003		169.4308
<b>Total</b>	<b>0.0973</b>	<b>0.0709</b>	<b>0.6269</b>	<b>1.7000e-003</b>	<b>0.1749</b>	<b>1.1600e-003</b>	<b>0.1761</b>	<b>0.0467</b>	<b>1.0700e-003</b>	<b>0.0478</b>		<b>169.2923</b>	<b>169.2923</b>	<b>5.5400e-003</b>		<b>169.4308</b>

**3.6 Architectural Coating - 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					
Archit. Coating	6.7578					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>7.0000</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

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**3.6 Architectural Coating - 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	0.0000	0.0000	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	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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>

**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	6.7578					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>7.0000</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

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**3.6 Architectural Coating - 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	0.0000	0.0000	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	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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>

**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	lb/day										lb/day					
Mitigated	0.1016	0.8459	1.1534	4.4600e-003	0.3102	3.6400e-003	0.3139	0.0830	3.4300e-003	0.0865		455.9340	455.9340	0.0353		456.8162
Unmitigated	0.1016	0.8459	1.1534	4.4600e-003	0.3102	3.6400e-003	0.3139	0.0830	3.4300e-003	0.0865		455.9340	455.9340	0.0353		456.8162

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	38.08	39.64	34.48	138,283	138,283
Total	38.08	39.64	34.48	138,283	138,283

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
Single Family Housing	16.80	7.10	7.90	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.533808	0.036979	0.174634	0.113643	0.020106	0.005748	0.008732	0.091632	0.001423	0.002308	0.009089	0.000713	0.001184

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	lb/day										lb/day					
NaturalGas Mitigated	3.6200e-003	0.0309	0.0132	2.0000e-004		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003		39.4471	39.4471	7.6000e-004	7.2000e-004	39.6815
NaturalGas Unmitigated	3.6200e-003	0.0309	0.0132	2.0000e-004		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003		39.4471	39.4471	7.6000e-004	7.2000e-004	39.6815

**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					
Single Family Housing	335.3	3.6200e-003	0.0309	0.0132	2.0000e-004		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003		39.4471	39.4471	7.6000e-004	7.2000e-004	39.6815
<b>Total</b>		<b>3.6200e-003</b>	<b>0.0309</b>	<b>0.0132</b>	<b>2.0000e-004</b>		<b>2.5000e-003</b>	<b>2.5000e-003</b>		<b>2.5000e-003</b>	<b>2.5000e-003</b>		<b>39.4471</b>	<b>39.4471</b>	<b>7.6000e-004</b>	<b>7.2000e-004</b>	<b>39.6815</b>



P201700730 Oak Hills - TPM19880 - Mojave Desert AQMD Air District, Winter

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	0.3353	3.6200e-003	0.0309	0.0132	2.0000e-004		2.5000e-003	2.5000e-003		2.5000e-003	2.5000e-003		39.4471	39.4471	7.6000e-004	7.2000e-004	39.6815
<b>Total</b>		<b>3.6200e-003</b>	<b>0.0309</b>	<b>0.0132</b>	<b>2.0000e-004</b>		<b>2.5000e-003</b>	<b>2.5000e-003</b>		<b>2.5000e-003</b>	<b>2.5000e-003</b>		<b>39.4471</b>	<b>39.4471</b>	<b>7.6000e-004</b>	<b>7.2000e-004</b>	<b>39.6815</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- No Hearths Installed

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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					
Mitigated	0.2259	3.8300e-003	0.3311	2.0000e-005		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003	0.0000	0.5942	0.5942	5.8000e-004	0.0000	0.6087
Unmitigated	6.3475	0.1234	7.8875	0.0137		1.0613	1.0613		1.0613	1.0613	111.0869	47.1824	158.2694	0.1031	8.7400e-003	163.4506

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	0.0617					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1541					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	6.1216	0.1196	7.5564	0.0137		1.0595	1.0595		1.0595	1.0595	111.0869	46.5882	157.6752	0.1025	8.7400e-003	162.8419
Landscaping	0.0101	3.8300e-003	0.3311	2.0000e-005		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003		0.5942	0.5942	5.8000e-004		0.6087
<b>Total</b>	<b>6.3475</b>	<b>0.1234</b>	<b>7.8875</b>	<b>0.0137</b>		<b>1.0613</b>	<b>1.0613</b>		<b>1.0613</b>	<b>1.0613</b>	<b>111.0869</b>	<b>47.1825</b>	<b>158.2694</b>	<b>0.1031</b>	<b>8.7400e-003</b>	<b>163.4506</b>

P201700730 Oak Hills - TPM19880 - Mojave Desert AQMD Air District, Winter

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0617					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1541					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0101	3.8300e-003	0.3311	2.0000e-005		1.8200e-003	1.8200e-003		1.8200e-003	1.8200e-003		0.5942	0.5942	5.8000e-004		0.6087
<b>Total</b>	<b>0.2259</b>	<b>3.8300e-003</b>	<b>0.3311</b>	<b>2.0000e-005</b>		<b>1.8200e-003</b>	<b>1.8200e-003</b>		<b>1.8200e-003</b>	<b>1.8200e-003</b>	<b>0.0000</b>	<b>0.5942</b>	<b>0.5942</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>0.6087</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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**P201700730 Oak Hills - TPM19880**  
**Mojave Desert AQMD Air District, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	4.00	Dwelling Unit	10.00	7,200.00	11

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Rural	<b>Wind Speed (m/s)</b>	2.6	<b>Precipitation Freq (Days)</b>	30
<b>Climate Zone</b>	10			<b>Operational Year</b>	2020
<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**

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Project Characteristics - TPM 10 acres into 4 - 2.5 acre lots for future SFR development

Land Use - Per project description tentative parcel map, single family residential 4 lots on approx 10 acres

Construction Phase - No demolition phase. Architectural Coating increased from default as homes will not be coated and completed at the same time.

Off-road Equipment - Air Compressors increased from default to better reflect the project size and requirements.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Architectural Coating - Per MDAQMD Rule 1113 coatings limited to 150 grams per liter or less

Vehicle Trips - trip rate from Project Trip Generation Summary

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Woodstoves - Changed fireplaces to 0

Area Coating - Area arch coating changed from default 250 g/L to 150 g/L to comply with MDAQMD Rules

Construction Off-road Equipment Mitigation - Clean paved roads per bmp's for fugitive dust control

Area Mitigation -

Fleet Mix - Fleet data includes information from project specific Trip Generation Summary

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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	150.00
tblArchitecturalCoating	EF_Parking	250.00	150.00
tblArchitecturalCoating	EF_Residential_Exterior	250.00	150.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	150.00
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	10
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	25
tblLandUse	LotAcreage	1.30	10.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

## 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	1-7-2019	4-6-2019	1.2287	1.2287
2	4-7-2019	7-6-2019	0.7622	0.7622
3	7-7-2019	10-6-2019	0.7706	0.7706
4	10-7-2019	1-6-2020	0.7599	0.7599
5	1-7-2020	4-6-2020	0.2260	0.2260
		Highest	1.2287	1.2287

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	0.2913	5.2500e-003	0.3396	5.6000e-004		0.0436	0.0436		0.0436	0.0436	4.1318	1.7813	5.9132	3.8600e-003	3.2000e-004	6.1065
Energy	6.6000e-004	5.6400e-003	2.4000e-003	4.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	17.6399	17.6399	5.8000e-004	2.1000e-004	17.7185
Mobile	0.0173	0.1509	0.2099	8.0000e-004	0.0529	6.3000e-004	0.0535	0.0142	5.9000e-004	0.0148	0.0000	73.8425	73.8425	5.3900e-003	0.0000	73.9773
Waste						0.0000	0.0000		0.0000	0.0000	0.9155	0.0000	0.9155	0.0541	0.0000	2.2681
Water						0.0000	0.0000		0.0000	0.0000	0.0827	1.6628	1.7455	8.5600e-003	2.1000e-004	2.0235
<b>Total</b>	<b>0.3092</b>	<b>0.1618</b>	<b>0.5519</b>	<b>1.4000e-003</b>	<b>0.0529</b>	<b>0.0447</b>	<b>0.0976</b>	<b>0.0142</b>	<b>0.0447</b>	<b>0.0588</b>	<b>5.1300</b>	<b>94.9267</b>	<b>100.0567</b>	<b>0.0725</b>	<b>7.4000e-004</b>	<b>102.0940</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	0.0403	3.4000e-004	0.0298	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0485	0.0485	5.0000e-005	0.0000	0.0497
Energy	6.6000e-004	5.6400e-003	2.4000e-003	4.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	17.6399	17.6399	5.8000e-004	2.1000e-004	17.7185
Mobile	0.0173	0.1509	0.2099	8.0000e-004	0.0529	6.3000e-004	0.0535	0.0142	5.9000e-004	0.0148	0.0000	73.8425	73.8425	5.3900e-003	0.0000	73.9773
Waste						0.0000	0.0000		0.0000	0.0000	0.9155	0.0000	0.9155	0.0541	0.0000	2.2681
Water						0.0000	0.0000		0.0000	0.0000	0.0827	1.6628	1.7455	8.5600e-003	2.1000e-004	2.0235
<b>Total</b>	<b>0.0582</b>	<b>0.1569</b>	<b>0.2421</b>	<b>8.4000e-004</b>	<b>0.0529</b>	<b>1.2500e-003</b>	<b>0.0541</b>	<b>0.0142</b>	<b>1.2100e-003</b>	<b>0.0154</b>	<b>0.9982</b>	<b>93.1938</b>	<b>94.1920</b>	<b>0.0687</b>	<b>4.2000e-004</b>	<b>96.0371</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>81.17</b>	<b>3.04</b>	<b>56.13</b>	<b>40.00</b>	<b>0.00</b>	<b>97.20</b>	<b>44.52</b>	<b>0.00</b>	<b>97.29</b>	<b>73.84</b>	<b>80.54</b>	<b>1.83</b>	<b>5.86</b>	<b>5.26</b>	<b>43.24</b>	<b>5.93</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	Site Preparation	Site Preparation	1/7/2019	1/18/2019	5	10	
2	Grading	Grading	1/19/2019	2/15/2019	5	20	
3	Building Construction	Building Construction	2/16/2019	1/3/2020	5	230	
4	Paving	Paving	1/4/2020	1/31/2020	5	20	
5	Architectural Coating	Architectural Coating	2/1/2020	2/28/2020	5	20	

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

**Acres of Grading (Grading Phase): 50**

**Acres of Paving: 0**

**Residential Indoor: 14,580; Residential Outdoor: 4,860; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; 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
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

**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
Site Preparation	7	18.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

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**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**3.2 Site Preparation - 2019**

**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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0217	0.2279	0.1103	1.9000e-004		0.0120	0.0120		0.0110	0.0110	0.0000	17.0843	17.0843	5.4100e-003	0.0000	17.2195
<b>Total</b>	<b>0.0217</b>	<b>0.2279</b>	<b>0.1103</b>	<b>1.9000e-004</b>	<b>0.0903</b>	<b>0.0120</b>	<b>0.1023</b>	<b>0.0497</b>	<b>0.0110</b>	<b>0.0607</b>	<b>0.0000</b>	<b>17.0843</b>	<b>17.0843</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>17.2195</b>

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**3.2 Site Preparation - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8000e-004	5.2000e-004	4.5300e-003	1.0000e-005	1.1300e-003	1.0000e-005	1.1400e-003	3.0000e-004	1.0000e-005	3.1000e-004	0.0000	0.9810	0.9810	4.0000e-005	0.0000	0.9819
<b>Total</b>	<b>5.8000e-004</b>	<b>5.2000e-004</b>	<b>4.5300e-003</b>	<b>1.0000e-005</b>	<b>1.1300e-003</b>	<b>1.0000e-005</b>	<b>1.1400e-003</b>	<b>3.0000e-004</b>	<b>1.0000e-005</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>0.9810</b>	<b>0.9810</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.9819</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					0.0352	0.0000	0.0352	0.0194	0.0000	0.0194	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0217	0.2279	0.1103	1.9000e-004		0.0120	0.0120		0.0110	0.0110	0.0000	17.0843	17.0843	5.4100e-003	0.0000	17.2195
<b>Total</b>	<b>0.0217</b>	<b>0.2279</b>	<b>0.1103</b>	<b>1.9000e-004</b>	<b>0.0352</b>	<b>0.0120</b>	<b>0.0472</b>	<b>0.0194</b>	<b>0.0110</b>	<b>0.0304</b>	<b>0.0000</b>	<b>17.0843</b>	<b>17.0843</b>	<b>5.4100e-003</b>	<b>0.0000</b>	<b>17.2195</b>

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**3.2 Site Preparation - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8000e-004	5.2000e-004	4.5300e-003	1.0000e-005	1.0300e-003	1.0000e-005	1.0400e-003	2.8000e-004	1.0000e-005	2.8000e-004	0.0000	0.9810	0.9810	4.0000e-005	0.0000	0.9819
<b>Total</b>	<b>5.8000e-004</b>	<b>5.2000e-004</b>	<b>4.5300e-003</b>	<b>1.0000e-005</b>	<b>1.0300e-003</b>	<b>1.0000e-005</b>	<b>1.0400e-003</b>	<b>2.8000e-004</b>	<b>1.0000e-005</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>0.9810</b>	<b>0.9810</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.9819</b>

**3.3 Grading - 2019**

**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					0.0867	0.0000	0.0867	0.0360	0.0000	0.0360	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0474	0.5452	0.3338	6.2000e-004		0.0238	0.0238		0.0219	0.0219	0.0000	55.7013	55.7013	0.0176	0.0000	56.1419
<b>Total</b>	<b>0.0474</b>	<b>0.5452</b>	<b>0.3338</b>	<b>6.2000e-004</b>	<b>0.0867</b>	<b>0.0238</b>	<b>0.1106</b>	<b>0.0360</b>	<b>0.0219</b>	<b>0.0579</b>	<b>0.0000</b>	<b>55.7013</b>	<b>55.7013</b>	<b>0.0176</b>	<b>0.0000</b>	<b>56.1419</b>

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**3.3 Grading - 2019**

**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	1.2800e-003	1.1500e-003	0.0101	2.0000e-005	2.5100e-003	2.0000e-005	2.5200e-003	6.7000e-004	1.0000e-005	6.8000e-004	0.0000	2.1800	2.1800	8.0000e-005	0.0000	2.1820
<b>Total</b>	<b>1.2800e-003</b>	<b>1.1500e-003</b>	<b>0.0101</b>	<b>2.0000e-005</b>	<b>2.5100e-003</b>	<b>2.0000e-005</b>	<b>2.5200e-003</b>	<b>6.7000e-004</b>	<b>1.0000e-005</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>2.1800</b>	<b>2.1800</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.1820</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					0.0338	0.0000	0.0338	0.0140	0.0000	0.0140	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0474	0.5452	0.3338	6.2000e-004		0.0238	0.0238		0.0219	0.0219	0.0000	55.7013	55.7013	0.0176	0.0000	56.1418
<b>Total</b>	<b>0.0474</b>	<b>0.5452</b>	<b>0.3338</b>	<b>6.2000e-004</b>	<b>0.0338</b>	<b>0.0238</b>	<b>0.0577</b>	<b>0.0140</b>	<b>0.0219</b>	<b>0.0360</b>	<b>0.0000</b>	<b>55.7013</b>	<b>55.7013</b>	<b>0.0176</b>	<b>0.0000</b>	<b>56.1418</b>



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**3.3 Grading - 2019**

**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	1.2800e-003	1.1500e-003	0.0101	2.0000e-005	2.2900e-003	2.0000e-005	2.3100e-003	6.1000e-004	1.0000e-005	6.3000e-004	0.0000	2.1800	2.1800	8.0000e-005	0.0000	2.1820
<b>Total</b>	<b>1.2800e-003</b>	<b>1.1500e-003</b>	<b>0.0101</b>	<b>2.0000e-005</b>	<b>2.2900e-003</b>	<b>2.0000e-005</b>	<b>2.3100e-003</b>	<b>6.1000e-004</b>	<b>1.0000e-005</b>	<b>6.3000e-004</b>	<b>0.0000</b>	<b>2.1800</b>	<b>2.1800</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.1820</b>

**3.4 Building Construction - 2019**

**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	0.2680	2.3924	1.9481	3.0500e-003		0.1464	0.1464		0.1376	0.1376	0.0000	266.8433	266.8433	0.0650	0.0000	268.4684
<b>Total</b>	<b>0.2680</b>	<b>2.3924</b>	<b>1.9481</b>	<b>3.0500e-003</b>		<b>0.1464</b>	<b>0.1464</b>		<b>0.1376</b>	<b>0.1376</b>	<b>0.0000</b>	<b>266.8433</b>	<b>266.8433</b>	<b>0.0650</b>	<b>0.0000</b>	<b>268.4684</b>

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**3.4 Building Construction - 2019**

**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	7.3000e-004	6.5000e-004	5.7200e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2371	1.2371	5.0000e-005	0.0000	1.2383
<b>Total</b>	<b>7.3000e-004</b>	<b>6.5000e-004</b>	<b>5.7200e-003</b>	<b>1.0000e-005</b>	<b>1.4200e-003</b>	<b>1.0000e-005</b>	<b>1.4300e-003</b>	<b>3.8000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>1.2371</b>	<b>1.2371</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.2383</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	0.2680	2.3924	1.9481	3.0500e-003		0.1464	0.1464		0.1376	0.1376	0.0000	266.8430	266.8430	0.0650	0.0000	268.4681
<b>Total</b>	<b>0.2680</b>	<b>2.3924</b>	<b>1.9481</b>	<b>3.0500e-003</b>		<b>0.1464</b>	<b>0.1464</b>		<b>0.1376</b>	<b>0.1376</b>	<b>0.0000</b>	<b>266.8430</b>	<b>266.8430</b>	<b>0.0650</b>	<b>0.0000</b>	<b>268.4681</b>

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**3.4 Building Construction - 2019**

**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	7.3000e-004	6.5000e-004	5.7200e-003	1.0000e-005	1.3000e-003	1.0000e-005	1.3100e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.2371	1.2371	5.0000e-005	0.0000	1.2383
<b>Total</b>	<b>7.3000e-004</b>	<b>6.5000e-004</b>	<b>5.7200e-003</b>	<b>1.0000e-005</b>	<b>1.3000e-003</b>	<b>1.0000e-005</b>	<b>1.3100e-003</b>	<b>3.5000e-004</b>	<b>1.0000e-005</b>	<b>3.6000e-004</b>	<b>0.0000</b>	<b>1.2371</b>	<b>1.2371</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.2383</b>

**3.4 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.1800e-003	0.0288	0.0253	4.0000e-005		1.6800e-003	1.6800e-003		1.5800e-003	1.5800e-003	0.0000	3.4742	3.4742	8.5000e-004	0.0000	3.4953
<b>Total</b>	<b>3.1800e-003</b>	<b>0.0288</b>	<b>0.0253</b>	<b>4.0000e-005</b>		<b>1.6800e-003</b>	<b>1.6800e-003</b>		<b>1.5800e-003</b>	<b>1.5800e-003</b>	<b>0.0000</b>	<b>3.4742</b>	<b>3.4742</b>	<b>8.5000e-004</b>	<b>0.0000</b>	<b>3.4953</b>

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**3.4 Building Construction - 2020****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	7.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0158	0.0158	0.0000	0.0000	0.0159
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0158</b>	<b>0.0158</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0159</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.1800e-003	0.0288	0.0253	4.0000e-005		1.6800e-003	1.6800e-003		1.5800e-003	1.5800e-003	0.0000	3.4742	3.4742	8.5000e-004	0.0000	3.4953
<b>Total</b>	<b>3.1800e-003</b>	<b>0.0288</b>	<b>0.0253</b>	<b>4.0000e-005</b>		<b>1.6800e-003</b>	<b>1.6800e-003</b>		<b>1.5800e-003</b>	<b>1.5800e-003</b>	<b>0.0000</b>	<b>3.4742</b>	<b>3.4742</b>	<b>8.5000e-004</b>	<b>0.0000</b>	<b>3.4953</b>

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**3.4 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	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	7.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0158	0.0158	0.0000	0.0000	0.0159
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0158</b>	<b>0.0158</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0159</b>

**3.5 Paving - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0136	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1902
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>0.0136</b>	<b>0.1407</b>	<b>0.1465</b>	<b>2.3000e-004</b>		<b>7.5300e-003</b>	<b>7.5300e-003</b>		<b>6.9300e-003</b>	<b>6.9300e-003</b>	<b>0.0000</b>	<b>20.0282</b>	<b>20.0282</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.1902</b>

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**3.5 Paving - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.8000e-004	7.6000e-004	6.7400e-003	2.0000e-005	1.8800e-003	1.0000e-005	1.8900e-003	5.0000e-004	1.0000e-005	5.1000e-004	0.0000	1.5838	1.5838	5.0000e-005	0.0000	1.5851
<b>Total</b>	<b>8.8000e-004</b>	<b>7.6000e-004</b>	<b>6.7400e-003</b>	<b>2.0000e-005</b>	<b>1.8800e-003</b>	<b>1.0000e-005</b>	<b>1.8900e-003</b>	<b>5.0000e-004</b>	<b>1.0000e-005</b>	<b>5.1000e-004</b>	<b>0.0000</b>	<b>1.5838</b>	<b>1.5838</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.5851</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	0.0136	0.1407	0.1465	2.3000e-004		7.5300e-003	7.5300e-003		6.9300e-003	6.9300e-003	0.0000	20.0282	20.0282	6.4800e-003	0.0000	20.1901
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>0.0136</b>	<b>0.1407</b>	<b>0.1465</b>	<b>2.3000e-004</b>		<b>7.5300e-003</b>	<b>7.5300e-003</b>		<b>6.9300e-003</b>	<b>6.9300e-003</b>	<b>0.0000</b>	<b>20.0282</b>	<b>20.0282</b>	<b>6.4800e-003</b>	<b>0.0000</b>	<b>20.1901</b>

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**3.5 Paving - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.8000e-004	7.6000e-004	6.7400e-003	2.0000e-005	1.7200e-003	1.0000e-005	1.7300e-003	4.6000e-004	1.0000e-005	4.7000e-004	0.0000	1.5838	1.5838	5.0000e-005	0.0000	1.5851
<b>Total</b>	<b>8.8000e-004</b>	<b>7.6000e-004</b>	<b>6.7400e-003</b>	<b>2.0000e-005</b>	<b>1.7200e-003</b>	<b>1.0000e-005</b>	<b>1.7300e-003</b>	<b>4.6000e-004</b>	<b>1.0000e-005</b>	<b>4.7000e-004</b>	<b>0.0000</b>	<b>1.5838</b>	<b>1.5838</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.5851</b>

**3.6 Architectural Coating - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0676					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4200e-003	0.0168	0.0183	3.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	2.5533	2.5533	2.0000e-004	0.0000	2.5582
<b>Total</b>	<b>0.0700</b>	<b>0.0168</b>	<b>0.0183</b>	<b>3.0000e-005</b>		<b>1.1100e-003</b>	<b>1.1100e-003</b>		<b>1.1100e-003</b>	<b>1.1100e-003</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.5582</b>

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**3.6 Architectural Coating - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	0.0676					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4200e-003	0.0168	0.0183	3.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	2.5533	2.5533	2.0000e-004	0.0000	2.5582
<b>Total</b>	<b>0.0700</b>	<b>0.0168</b>	<b>0.0183</b>	<b>3.0000e-005</b>		<b>1.1100e-003</b>	<b>1.1100e-003</b>		<b>1.1100e-003</b>	<b>1.1100e-003</b>	<b>0.0000</b>	<b>2.5533</b>	<b>2.5533</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.5582</b>



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**3.6 Architectural Coating - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	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>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	0.0173	0.1509	0.2099	8.0000e-004	0.0529	6.3000e-004	0.0535	0.0142	5.9000e-004	0.0148	0.0000	73.8425	73.8425	5.3900e-003	0.0000	73.9773
Unmitigated	0.0173	0.1509	0.2099	8.0000e-004	0.0529	6.3000e-004	0.0535	0.0142	5.9000e-004	0.0148	0.0000	73.8425	73.8425	5.3900e-003	0.0000	73.9773

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	38.08	39.64	34.48	138,283	138,283
Total	38.08	39.64	34.48	138,283	138,283

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
Single Family Housing	16.80	7.10	7.90	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.533808	0.036979	0.174634	0.113643	0.020106	0.005748	0.008732	0.091632	0.001423	0.002308	0.009089	0.000713	0.001184

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	11.1090	11.1090	4.6000e-004	9.0000e-005	11.1488
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	11.1090	11.1090	4.6000e-004	9.0000e-005	11.1488
NaturalGas Mitigated	6.6000e-004	5.6400e-003	2.4000e-003	4.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	6.5309	6.5309	1.3000e-004	1.2000e-004	6.5697
NaturalGas Unmitigated	6.6000e-004	5.6400e-003	2.4000e-003	4.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	6.5309	6.5309	1.3000e-004	1.2000e-004	6.5697

**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					
Single Family Housing	122385	6.6000e-004	5.6400e-003	2.4000e-003	4.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	6.5309	6.5309	1.3000e-004	1.2000e-004	6.5697
<b>Total</b>		<b>6.6000e-004</b>	<b>5.6400e-003</b>	<b>2.4000e-003</b>	<b>4.0000e-005</b>		<b>4.6000e-004</b>	<b>4.6000e-004</b>		<b>4.6000e-004</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>6.5309</b>	<b>6.5309</b>	<b>1.3000e-004</b>	<b>1.2000e-004</b>	<b>6.5697</b>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	122385	6.6000e-004	5.6400e-003	2.4000e-003	4.0000e-005		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	6.5309	6.5309	1.3000e-004	1.2000e-004	6.5697
<b>Total</b>		<b>6.6000e-004</b>	<b>5.6400e-003</b>	<b>2.4000e-003</b>	<b>4.0000e-005</b>		<b>4.6000e-004</b>	<b>4.6000e-004</b>		<b>4.6000e-004</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>6.5309</b>	<b>6.5309</b>	<b>1.3000e-004</b>	<b>1.2000e-004</b>	<b>6.5697</b>

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	34865.9	11.1090	4.6000e-004	9.0000e-005	11.1488
<b>Total</b>		<b>11.1090</b>	<b>4.6000e-004</b>	<b>9.0000e-005</b>	<b>11.1488</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			
Single Family Housing	34865.9	11.1090	4.6000e-004	9.0000e-005	11.1488
<b>Total</b>		<b>11.1090</b>	<b>4.6000e-004</b>	<b>9.0000e-005</b>	<b>11.1488</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

No Hearths Installed

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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	0.0403	3.4000e-004	0.0298	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0485	0.0485	5.0000e-005	0.0000	0.0497
Unmitigated	0.2913	5.2500e-003	0.3396	5.6000e-004		0.0436	0.0436		0.0436	0.0436	4.1318	1.7813	5.9132	3.8600e-003	3.2000e-004	6.1065

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	0.0113					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0281					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.2510	4.9000e-003	0.3098	5.6000e-004		0.0434	0.0434		0.0434	0.0434	4.1318	1.7328	5.8647	3.8100e-003	3.2000e-004	6.0568
Landscaping	9.1000e-004	3.4000e-004	0.0298	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0485	0.0485	5.0000e-005	0.0000	0.0497
<b>Total</b>	<b>0.2913</b>	<b>5.2400e-003</b>	<b>0.3396</b>	<b>5.6000e-004</b>		<b>0.0436</b>	<b>0.0436</b>		<b>0.0436</b>	<b>0.0436</b>	<b>4.1318</b>	<b>1.7814</b>	<b>5.9132</b>	<b>3.8600e-003</b>	<b>3.2000e-004</b>	<b>6.1065</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	0.0113					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0281					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.1000e-004	3.4000e-004	0.0298	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0485	0.0485	5.0000e-005	0.0000	0.0497
<b>Total</b>	<b>0.0403</b>	<b>3.4000e-004</b>	<b>0.0298</b>	<b>0.0000</b>		<b>1.6000e-004</b>	<b>1.6000e-004</b>		<b>1.6000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.0485</b>	<b>0.0485</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.0497</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.7455	8.5600e-003	2.1000e-004	2.0235
Unmitigated	1.7455	8.5600e-003	2.1000e-004	2.0235

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.260616 / 0.164301	1.7455	8.5600e-003	2.1000e-004	2.0235
<b>Total</b>		<b>1.7455</b>	<b>8.5600e-003</b>	<b>2.1000e-004</b>	<b>2.0235</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			
Single Family Housing	0.260616 / 0.164301	1.7455	8.5600e-003	2.1000e-004	2.0235
<b>Total</b>		<b>1.7455</b>	<b>8.5600e-003</b>	<b>2.1000e-004</b>	<b>2.0235</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.9155	0.0541	0.0000	2.2681
Unmitigated	0.9155	0.0541	0.0000	2.2681

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	4.51	0.9155	0.0541	0.0000	2.2681
<b>Total</b>		<b>0.9155</b>	<b>0.0541</b>	<b>0.0000</b>	<b>2.2681</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	4.51	0.9155	0.0541	0.0000	2.2681
<b>Total</b>		<b>0.9155</b>	<b>0.0541</b>	<b>0.0000</b>	<b>2.2681</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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**P201700730 Oak Hills - TPM19880**  
**Mojave Desert AQMD Air District, Mitigation Report**

**Construction Mitigation Summary**

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**OFFROAD Equipment Mitigation**

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	2	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	4	No Change	0.00
Scrapers	Diesel	No Change	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	9	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Air Compressors	2.42000E-003	1.68400E-002	1.83100E-002	3.00000E-005	1.11000E-003	1.11000E-003	0.00000E+000	2.55325E+000	2.55325E+000	2.00000E-004	0.00000E+000	2.55820E+000
Cranes	5.06500E-002	6.03650E-001	2.30500E-001	5.80000E-004	2.55800E-002	2.35300E-002	0.00000E+000	5.21284E+001	5.21284E+001	1.65000E-002	0.00000E+000	5.25409E+001
Excavators	5.21000E-003	5.36400E-002	6.52600E-002	1.00000E-004	2.59000E-003	2.38000E-003	0.00000E+000	9.27371E+000	9.27371E+000	2.93000E-003	0.00000E+000	9.34706E+000
Forklifts	5.51100E-002	4.92180E-001	4.11930E-001	5.30000E-004	3.81100E-002	3.50600E-002	0.00000E+000	4.73466E+001	4.73466E+001	1.49800E-002	0.00000E+000	4.77213E+001
Generator Sets	5.09900E-002	4.34010E-001	4.28130E-001	7.60000E-004	2.59300E-002	2.59300E-002	0.00000E+000	6.49989E+001	6.49989E+001	4.11000E-003	0.00000E+000	6.51016E+001
Graders	4.87000E-003	6.58000E-002	1.83800E-002	7.00000E-005	2.11000E-003	1.94000E-003	0.00000E+000	5.96589E+000	5.96589E+000	1.89000E-003	0.00000E+000	6.01308E+000
Pavers	5.25000E-003	5.62100E-002	5.79700E-002	9.00000E-005	2.73000E-003	2.51000E-003	0.00000E+000	8.26032E+000	8.26032E+000	2.67000E-003	0.00000E+000	8.32711E+000
Paving Equipment	4.15000E-003	4.28300E-002	5.06900E-002	8.00000E-005	2.14000E-003	1.97000E-003	0.00000E+000	7.15820E+000	7.15820E+000	2.32000E-003	0.00000E+000	7.21608E+000
Rollers	4.16000E-003	4.16200E-002	3.78700E-002	5.00000E-005	2.65000E-003	2.44000E-003	0.00000E+000	4.60970E+000	4.60970E+000	1.49000E-003	0.00000E+000	4.64698E+000
Rubber Tired Dozers	2.83600E-002	3.01860E-001	1.07100E-001	2.10000E-004	1.47200E-002	1.35400E-002	0.00000E+000	1.91740E+001	1.91740E+001	6.07000E-003	0.00000E+000	1.93257E+001
Scrapers	2.13100E-002	2.58280E-001	1.61230E-001	3.00000E-004	1.01200E-002	9.31000E-003	0.00000E+000	2.72122E+001	2.72122E+001	8.61000E-003	0.00000E+000	2.74274E+001
Tractors/Loaders/Backhoes	7.95000E-002	7.98170E-001	7.87140E-001	1.06000E-003	5.32600E-002	4.90000E-002	0.00000E+000	9.53580E+001	9.53580E+001	3.01800E-002	0.00000E+000	9.61125E+001
Welders	4.42300E-002	1.86710E-001	2.07760E-001	2.90000E-004	1.14400E-002	1.14400E-002	0.00000E+000	2.16454E+001	2.16454E+001	3.61000E-003	0.00000E+000	2.17357E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	2.42000E-003	1.68400E-002	1.83100E-002	3.00000E-005	1.11000E-003	1.11000E-003	0.00000E+000	2.55325E+000	2.55325E+000	2.00000E-004	0.00000E+000	2.55819E+000
Cranes	5.06500E-002	6.03650E-001	2.30500E-001	5.80000E-004	2.55800E-002	2.35300E-002	0.00000E+000	5.21284E+001	5.21284E+001	1.65000E-002	0.00000E+000	5.25408E+001
Excavators	5.21000E-003	5.36400E-002	6.52600E-002	1.00000E-004	2.59000E-003	2.38000E-003	0.00000E+000	9.27370E+000	9.27370E+000	2.93000E-003	0.00000E+000	9.34705E+000
Forklifts	5.51100E-002	4.92180E-001	4.11930E-001	5.30000E-004	3.81100E-002	3.50600E-002	0.00000E+000	4.73466E+001	4.73466E+001	1.49800E-002	0.00000E+000	4.77212E+001
Generator Sets	5.09900E-002	4.34010E-001	4.28130E-001	7.60000E-004	2.59300E-002	2.59300E-002	0.00000E+000	6.49988E+001	6.49988E+001	4.11000E-003	0.00000E+000	6.51016E+001
Graders	4.87000E-003	6.58000E-002	1.83800E-002	7.00000E-005	2.11000E-003	1.94000E-003	0.00000E+000	5.96589E+000	5.96589E+000	1.89000E-003	0.00000E+000	6.01307E+000
Pavers	5.25000E-003	5.62100E-002	5.79700E-002	9.00000E-005	2.73000E-003	2.51000E-003	0.00000E+000	8.26031E+000	8.26031E+000	2.67000E-003	0.00000E+000	8.32710E+000
Paving Equipment	4.15000E-003	4.28300E-002	5.06900E-002	8.00000E-005	2.14000E-003	1.97000E-003	0.00000E+000	7.15819E+000	7.15819E+000	2.32000E-003	0.00000E+000	7.21607E+000
Rollers	4.16000E-003	4.16200E-002	3.78700E-002	5.00000E-005	2.65000E-003	2.44000E-003	0.00000E+000	4.60970E+000	4.60970E+000	1.49000E-003	0.00000E+000	4.64697E+000
Rubber Tired Dozers	2.83600E-002	3.01860E-001	1.07100E-001	2.10000E-004	1.47200E-002	1.35400E-002	0.00000E+000	1.91740E+001	1.91740E+001	6.07000E-003	0.00000E+000	1.93256E+001
Scrapers	2.13100E-002	2.58280E-001	1.61230E-001	3.00000E-004	1.01200E-002	9.31000E-003	0.00000E+000	2.72121E+001	2.72121E+001	8.61000E-003	0.00000E+000	2.74274E+001
Tractors/Loaders/Balckhoes	7.95000E-002	7.98170E-001	7.87140E-001	1.06000E-003	5.32600E-002	4.90000E-002	0.00000E+000	9.53579E+001	9.53579E+001	3.01800E-002	0.00000E+000	9.61123E+001
Welders	4.42300E-002	1.86710E-001	2.07760E-001	2.90000E-004	1.14400E-002	1.14400E-002	0.00000E+000	2.16454E+001	2.16454E+001	3.61000E-003	0.00000E+000	2.17357E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	3.90900E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15100E-006	1.15100E-006	0.00000E+000	0.00000E+000	1.14197E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.07832E-006	1.07832E-006	0.00000E+000	0.00000E+000	1.06986E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.26725E-006	1.26725E-006	0.00000E+000	0.00000E+000	1.25730E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23079E-006	1.23079E-006	0.00000E+000	0.00000E+000	1.07524E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.66304E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21061E-006	1.21061E-006	0.00000E+000	0.00000E+000	1.20090E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.39700E-006	1.39700E-006	0.00000E+000	0.00000E+000	1.38579E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.15194E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.56462E-006	1.56462E-006	0.00000E+000	0.00000E+000	1.55234E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.46993E-006	1.46993E-006	0.00000E+000	0.00000E+000	1.45839E-006
Tractors/Loaders/Balckhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15355E-006	1.15355E-006	0.00000E+000	0.00000E+000	1.24854E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.23985E-007	9.23985E-007	0.00000E+000	0.00000E+000	9.20146E-007

**Fugitive Dust Mitigation**

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction 0.00
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction 0.00
Yes	Water Exposed Area	PM10 Reduction	61.00	PM2.5 Reduction 61.00 Frequency (per day) 3.00



No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	25.00		
Yes	Clean Paved Road	% PM Reduction	10.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.00	0.00	0.00	0.00	0.08	0.08
Grading	Fugitive Dust	0.09	0.04	0.03	0.01	0.61	0.61
Grading	Roads	0.00	0.00	0.00	0.00	0.09	0.09
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.09	0.08
Site Preparation	Fugitive Dust	0.09	0.05	0.04	0.02	0.61	0.61
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.09	0.07

**Operational Percent Reduction Summary**

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Mobile Mitigation**

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	-0.01	0.13		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		

No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

**Area Mitigation**

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
Yes	No Hearth	
No	Use Low VOC Cleaning Supplies	
Yes	Use Low VOC Paint (Residential Interior)	250.00
Yes	Use Low VOC Paint (Residential Exterior)	250.00
No	Use Low VOC Paint (Non-residential Interior)	250.00
No	Use Low VOC Paint (Non-residential Exterior)	250.00
Yes	Use Low VOC Paint (Parking)	250.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

**Energy Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

**Water Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

**Solid Waste Mitigation**

Mitigation Measures	Input Value
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Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
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