

HP Fontana HQ & Yaar - South Coast Air Basin, Summer

**HP Fontana HQ & Yaar**  
**South Coast Air Basin, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	12.00	1000sqft	0.28	12,000.00	0
Unrefrigerated Warehouse-No Rail	4.98	1000sqft	0.11	4,980.00	0
Parking Lot	57.00	Space	0.51	22,800.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<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 -

Land Use -

Construction Phase - No demolition phase for project

Off-road Equipment - concrete saw default removed from default

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Architectural Coating - Arch Coating VOC per Rule 1113

Construction Off-road Equipment Mitigation - Construction mitigation per Fugitive Dust Rules

Area Mitigation - Use of LOW VOC per Rule 1113

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	10
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	25
tblTripsAndVMT	WorkerTripNumber	10.00	8.00

**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	0.3899	7.0000e-005	7.6000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0162	0.0162	4.0000e-005		0.0173
Energy	1.5300e-003	0.0139	0.0117	8.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003		16.6799	16.6799	3.2000e-004	3.1000e-004	16.7790
Mobile	0.2768	1.3416	3.6988	0.0125	0.9824	0.0123	0.9947	0.2629	0.0115	0.2744		1,269.0023	1,269.0023	0.0630		1,270.5780
<b>Total</b>	<b>0.6682</b>	<b>1.3556</b>	<b>3.7181</b>	<b>0.0126</b>	<b>0.9824</b>	<b>0.0134</b>	<b>0.9958</b>	<b>0.2629</b>	<b>0.0126</b>	<b>0.2755</b>		<b>1,285.6984</b>	<b>1,285.6984</b>	<b>0.0634</b>	<b>3.1000e-004</b>	<b>1,287.3743</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	0.3683	7.0000e-005	7.6000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0162	0.0162	4.0000e-005		0.0173
Energy	1.5300e-003	0.0139	0.0117	8.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003		16.6799	16.6799	3.2000e-004	3.1000e-004	16.7790
Mobile	0.2768	1.3416	3.6988	0.0125	0.9824	0.0123	0.9947	0.2629	0.0115	0.2744		1,269.0023	1,269.0023	0.0630		1,270.5780
<b>Total</b>	<b>0.6467</b>	<b>1.3556</b>	<b>3.7181</b>	<b>0.0126</b>	<b>0.9824</b>	<b>0.0134</b>	<b>0.9958</b>	<b>0.2629</b>	<b>0.0126</b>	<b>0.2755</b>		<b>1,285.6984</b>	<b>1,285.6984</b>	<b>0.0634</b>	<b>3.1000e-004</b>	<b>1,287.3743</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	3.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/14/2019	9/16/2019	5	1	
2	Grading	Grading	9/17/2019	9/18/2019	5	2	
3	Building Construction	Building Construction	9/19/2019	2/5/2020	5	100	
4	Paving	Paving	2/6/2020	2/12/2020	5	5	
5	Architectural Coating	Architectural Coating	2/13/2020	2/19/2020	5	5	

**Acres of Grading (Site Preparation Phase): 0.5**

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

**Acres of Paving: 0.51**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 25,470; Non-Residential Outdoor: 8,490; Striped Parking Area: 1,368 (Architectural Coating – sqft)**

#### OffRoad Equipment

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	16.00	7.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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Use Soil Stabilizer

Replace Ground Cover

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					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.7195	8.9170	4.1407	9.7500e-003		0.3672	0.3672		0.3378	0.3378		965.1690	965.1690	0.3054		972.8032
<b>Total</b>	<b>0.7195</b>	<b>8.9170</b>	<b>4.1407</b>	<b>9.7500e-003</b>	<b>0.5303</b>	<b>0.3672</b>	<b>0.8975</b>	<b>0.0573</b>	<b>0.3378</b>	<b>0.3951</b>		<b>965.1690</b>	<b>965.1690</b>	<b>0.3054</b>		<b>972.8032</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	0.0243	0.0170	0.2240	5.9000e-004	0.0559	4.4000e-004	0.0563	0.0148	4.0000e-004	0.0152		59.0181	59.0181	1.8500e-003		59.0643
<b>Total</b>	<b>0.0243</b>	<b>0.0170</b>	<b>0.2240</b>	<b>5.9000e-004</b>	<b>0.0559</b>	<b>4.4000e-004</b>	<b>0.0563</b>	<b>0.0148</b>	<b>4.0000e-004</b>	<b>0.0152</b>		<b>59.0181</b>	<b>59.0181</b>	<b>1.8500e-003</b>		<b>59.0643</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2068	0.0000	0.2068	0.0223	0.0000	0.0223			0.0000			0.0000
Off-Road	0.7195	8.9170	4.1407	9.7500e-003		0.3672	0.3672		0.3378	0.3378	0.0000	965.1690	965.1690	0.3054		972.8032
<b>Total</b>	<b>0.7195</b>	<b>8.9170</b>	<b>4.1407</b>	<b>9.7500e-003</b>	<b>0.2068</b>	<b>0.3672</b>	<b>0.5740</b>	<b>0.0223</b>	<b>0.3378</b>	<b>0.3602</b>	<b>0.0000</b>	<b>965.1690</b>	<b>965.1690</b>	<b>0.3054</b>		<b>972.8032</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	0.0243	0.0170	0.2240	5.9000e-004	0.0510	4.4000e-004	0.0515	0.0136	4.0000e-004	0.0140		59.0181	59.0181	1.8500e-003		59.0643
<b>Total</b>	<b>0.0243</b>	<b>0.0170</b>	<b>0.2240</b>	<b>5.9000e-004</b>	<b>0.0510</b>	<b>4.4000e-004</b>	<b>0.0515</b>	<b>0.0136</b>	<b>4.0000e-004</b>	<b>0.0140</b>		<b>59.0181</b>	<b>59.0181</b>	<b>1.8500e-003</b>		<b>59.0643</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					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125		1,159.6570	1,159.6570	0.2211		1,165.1847
<b>Total</b>	<b>0.9530</b>	<b>8.6039</b>	<b>7.6917</b>	<b>0.0120</b>	<b>0.7528</b>	<b>0.5371</b>	<b>1.2898</b>	<b>0.4138</b>	<b>0.5125</b>	<b>0.9263</b>		<b>1,159.6570</b>	<b>1,159.6570</b>	<b>0.2211</b>		<b>1,165.1847</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	0.0388	0.0272	0.3584	9.5000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.4000e-004	0.0244		94.4289	94.4289	2.9600e-003		94.5029
<b>Total</b>	<b>0.0388</b>	<b>0.0272</b>	<b>0.3584</b>	<b>9.5000e-004</b>	<b>0.0894</b>	<b>7.0000e-004</b>	<b>0.0901</b>	<b>0.0237</b>	<b>6.4000e-004</b>	<b>0.0244</b>		<b>94.4289</b>	<b>94.4289</b>	<b>2.9600e-003</b>		<b>94.5029</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2936	0.0000	0.2936	0.1614	0.0000	0.1614			0.0000			0.0000
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847
<b>Total</b>	<b>0.9530</b>	<b>8.6039</b>	<b>7.6917</b>	<b>0.0120</b>	<b>0.2936</b>	<b>0.5371</b>	<b>0.8307</b>	<b>0.1614</b>	<b>0.5125</b>	<b>0.6738</b>	<b>0.0000</b>	<b>1,159.6570</b>	<b>1,159.6570</b>	<b>0.2211</b>		<b>1,165.1847</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	0.0388	0.0272	0.3584	9.5000e-004	0.0817	7.0000e-004	0.0824	0.0218	6.4000e-004	0.0225		94.4289	94.4289	2.9600e-003		94.5029
<b>Total</b>	<b>0.0388</b>	<b>0.0272</b>	<b>0.3584</b>	<b>9.5000e-004</b>	<b>0.0817</b>	<b>7.0000e-004</b>	<b>0.0824</b>	<b>0.0218</b>	<b>6.4000e-004</b>	<b>0.0225</b>		<b>94.4289</b>	<b>94.4289</b>	<b>2.9600e-003</b>		<b>94.5029</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	0.9576	9.8207	7.5432	0.0114		0.6054	0.6054		0.5569	0.5569		1,127.6696	1,127.6696	0.3568		1,136.5892
<b>Total</b>	<b>0.9576</b>	<b>9.8207</b>	<b>7.5432</b>	<b>0.0114</b>		<b>0.6054</b>	<b>0.6054</b>		<b>0.5569</b>	<b>0.5569</b>		<b>1,127.6696</b>	<b>1,127.6696</b>	<b>0.3568</b>		<b>1,136.5892</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	0.0273	0.8035	0.1982	1.8000e-003	0.0448	5.3300e-003	0.0501	0.0129	5.1000e-003	0.0180		192.1585	192.1585	0.0129		192.4817
Worker	0.0777	0.0544	0.7167	1.9000e-003	0.1788	1.4000e-003	0.1802	0.0474	1.2900e-003	0.0487		188.8578	188.8578	5.9200e-003		189.0058
<b>Total</b>	<b>0.1050</b>	<b>0.8579</b>	<b>0.9148</b>	<b>3.7000e-003</b>	<b>0.2236</b>	<b>6.7300e-003</b>	<b>0.2304</b>	<b>0.0603</b>	<b>6.3900e-003</b>	<b>0.0667</b>		<b>381.0164</b>	<b>381.0164</b>	<b>0.0189</b>		<b>381.4876</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9576	9.8207	7.5432	0.0114		0.6054	0.6054		0.5569	0.5569	0.0000	1,127.6696	1,127.6696	0.3568		1,136.5892
<b>Total</b>	<b>0.9576</b>	<b>9.8207</b>	<b>7.5432</b>	<b>0.0114</b>		<b>0.6054</b>	<b>0.6054</b>		<b>0.5569</b>	<b>0.5569</b>	<b>0.0000</b>	<b>1,127.6696</b>	<b>1,127.6696</b>	<b>0.3568</b>		<b>1,136.5892</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	0.0273	0.8035	0.1982	1.8000e-003	0.0416	5.3300e-003	0.0469	0.0121	5.1000e-003	0.0172		192.1585	192.1585	0.0129		192.4817
Worker	0.0777	0.0544	0.7167	1.9000e-003	0.1633	1.4000e-003	0.1647	0.0436	1.2900e-003	0.0449		188.8578	188.8578	5.9200e-003		189.0058
<b>Total</b>	<b>0.1050</b>	<b>0.8579</b>	<b>0.9148</b>	<b>3.7000e-003</b>	<b>0.2049</b>	<b>6.7300e-003</b>	<b>0.2116</b>	<b>0.0557</b>	<b>6.3900e-003</b>	<b>0.0621</b>		<b>381.0164</b>	<b>381.0164</b>	<b>0.0189</b>		<b>381.4876</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	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806		1,102.9781	1,102.9781	0.3567		1,111.8962
<b>Total</b>	<b>0.8617</b>	<b>8.8523</b>	<b>7.3875</b>	<b>0.0114</b>		<b>0.5224</b>	<b>0.5224</b>		<b>0.4806</b>	<b>0.4806</b>		<b>1,102.9781</b>	<b>1,102.9781</b>	<b>0.3567</b>		<b>1,111.8962</b>

HP Fontana HQ & Yaar - South Coast Air Basin, Summer

**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	0.0232	0.7373	0.1793	1.7900e-003	0.0448	3.6500e-003	0.0484	0.0129	3.4900e-003	0.0164		190.9539	190.9539	0.0122		191.2595
Worker	0.0718	0.0485	0.6521	1.8400e-003	0.1788	1.3600e-003	0.1802	0.0474	1.2600e-003	0.0487		183.0138	183.0138	5.2700e-003		183.1457
<b>Total</b>	<b>0.0950</b>	<b>0.7858</b>	<b>0.8315</b>	<b>3.6300e-003</b>	<b>0.2236</b>	<b>5.0100e-003</b>	<b>0.2287</b>	<b>0.0603</b>	<b>4.7500e-003</b>	<b>0.0651</b>		<b>373.9677</b>	<b>373.9677</b>	<b>0.0175</b>		<b>374.4051</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806	0.0000	1,102.9781	1,102.9781	0.3567		1,111.8962
<b>Total</b>	<b>0.8617</b>	<b>8.8523</b>	<b>7.3875</b>	<b>0.0114</b>		<b>0.5224</b>	<b>0.5224</b>		<b>0.4806</b>	<b>0.4806</b>	<b>0.0000</b>	<b>1,102.9781</b>	<b>1,102.9781</b>	<b>0.3567</b>		<b>1,111.8962</b>

HP Fontana HQ & Yaar - South Coast Air Basin, Summer

**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	0.0232	0.7373	0.1793	1.7900e-003	0.0416	3.6500e-003	0.0453	0.0121	3.4900e-003	0.0156		190.9539	190.9539	0.0122		191.2595
Worker	0.0718	0.0485	0.6521	1.8400e-003	0.1633	1.3600e-003	0.1647	0.0436	1.2600e-003	0.0449		183.0138	183.0138	5.2700e-003		183.1457
<b>Total</b>	<b>0.0950</b>	<b>0.7858</b>	<b>0.8315</b>	<b>3.6300e-003</b>	<b>0.2049</b>	<b>5.0100e-003</b>	<b>0.2099</b>	<b>0.0557</b>	<b>4.7500e-003</b>	<b>0.0605</b>		<b>373.9677</b>	<b>373.9677</b>	<b>0.0175</b>		<b>374.4051</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	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669		1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.2672					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0388</b>	<b>7.2266</b>	<b>7.1128</b>	<b>0.0113</b>		<b>0.3950</b>	<b>0.3950</b>		<b>0.3669</b>	<b>0.3669</b>		<b>1,035.3926</b>	<b>1,035.3926</b>	<b>0.3016</b>		<b>1,042.9323</b>

HP Fontana HQ & Yaar - South Coast Air Basin, Summer

**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	0.0807	0.0546	0.7336	2.0700e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		205.8905	205.8905	5.9300e-003		206.0389
<b>Total</b>	<b>0.0807</b>	<b>0.0546</b>	<b>0.7336</b>	<b>2.0700e-003</b>	<b>0.2012</b>	<b>1.5300e-003</b>	<b>0.2027</b>	<b>0.0534</b>	<b>1.4100e-003</b>	<b>0.0548</b>		<b>205.8905</b>	<b>205.8905</b>	<b>5.9300e-003</b>		<b>206.0389</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669	0.0000	1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.2672					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0388</b>	<b>7.2266</b>	<b>7.1128</b>	<b>0.0113</b>		<b>0.3950</b>	<b>0.3950</b>		<b>0.3669</b>	<b>0.3669</b>	<b>0.0000</b>	<b>1,035.3926</b>	<b>1,035.3926</b>	<b>0.3016</b>		<b>1,042.9323</b>



HP Fontana HQ & Yaar - South Coast Air Basin, Summer

**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	0.0807	0.0546	0.7336	2.0700e-003	0.1837	1.5300e-003	0.1852	0.0491	1.4100e-003	0.0505		205.8905	205.8905	5.9300e-003		206.0389
<b>Total</b>	<b>0.0807</b>	<b>0.0546</b>	<b>0.7336</b>	<b>2.0700e-003</b>	<b>0.1837</b>	<b>1.5300e-003</b>	<b>0.1852</b>	<b>0.0491</b>	<b>1.4100e-003</b>	<b>0.0505</b>		<b>205.8905</b>	<b>205.8905</b>	<b>5.9300e-003</b>		<b>206.0389</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	17.0086					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>17.2508</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>

HP Fontana HQ & Yaar - South Coast Air Basin, Summer

**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	0.0135	9.1000e-003	0.1223	3.4000e-004	0.0335	2.6000e-004	0.0338	8.8900e-003	2.4000e-004	9.1300e-003		34.3151	34.3151	9.9000e-004		34.3398
<b>Total</b>	<b>0.0135</b>	<b>9.1000e-003</b>	<b>0.1223</b>	<b>3.4000e-004</b>	<b>0.0335</b>	<b>2.6000e-004</b>	<b>0.0338</b>	<b>8.8900e-003</b>	<b>2.4000e-004</b>	<b>9.1300e-003</b>		<b>34.3151</b>	<b>34.3151</b>	<b>9.9000e-004</b>		<b>34.3398</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	17.0086					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>17.2508</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>

HP Fontana HQ & Yaar - South Coast Air Basin, Summer

**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	0.0135	9.1000e-003	0.1223	3.4000e-004	0.0306	2.6000e-004	0.0309	8.1800e-003	2.4000e-004	8.4100e-003		34.3151	34.3151	9.9000e-004		34.3398
<b>Total</b>	<b>0.0135</b>	<b>9.1000e-003</b>	<b>0.1223</b>	<b>3.4000e-004</b>	<b>0.0306</b>	<b>2.6000e-004</b>	<b>0.0309</b>	<b>8.1800e-003</b>	<b>2.4000e-004</b>	<b>8.4100e-003</b>		<b>34.3151</b>	<b>34.3151</b>	<b>9.9000e-004</b>		<b>34.3398</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

HP Fontana HQ & Yaar - South Coast Air Basin, 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	0.2768	1.3416	3.6988	0.0125	0.9824	0.0123	0.9947	0.2629	0.0115	0.2744		1,269.0023	1,269.0023	0.0630		1,270.5780
Unmitigated	0.2768	1.3416	3.6988	0.0125	0.9824	0.0123	0.9947	0.2629	0.0115	0.2744		1,269.0023	1,269.0023	0.0630		1,270.5780

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	132.36	29.52	12.60	323,950	323,950
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	8.37	8.37	8.37	35,856	35,856
Total	140.73	37.89	20.97	359,806	359,806

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

HP Fontana HQ & Yaar - South Coast Air Basin, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.550339	0.043800	0.200255	0.122233	0.016799	0.005871	0.020633	0.029727	0.002027	0.001932	0.004726	0.000704	0.000955
Parking Lot	0.550339	0.043800	0.200255	0.122233	0.016799	0.005871	0.020633	0.029727	0.002027	0.001932	0.004726	0.000704	0.000955
Unrefrigerated Warehouse-No Rail	0.550339	0.043800	0.200255	0.122233	0.016799	0.005871	0.020633	0.029727	0.002027	0.001932	0.004726	0.000704	0.000955

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.5300e-003	0.0139	0.0117	8.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003		16.6799	16.6799	3.2000e-004	3.1000e-004	16.7790
NaturalGas Unmitigated	1.5300e-003	0.0139	0.0117	8.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003		16.6799	16.6799	3.2000e-004	3.1000e-004	16.7790

HP Fontana HQ & Yaar - South Coast Air Basin, Summer

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	114.082	1.2300e-003	0.0112	9.4000e-003	7.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		13.4214	13.4214	2.6000e-004	2.5000e-004	13.5012
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	27.697	3.0000e-004	2.7200e-003	2.2800e-003	2.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		3.2585	3.2585	6.0000e-005	6.0000e-005	3.2778
<b>Total</b>		<b>1.5300e-003</b>	<b>0.0139</b>	<b>0.0117</b>	<b>9.0000e-005</b>		<b>1.0600e-003</b>	<b>1.0600e-003</b>		<b>1.0600e-003</b>	<b>1.0600e-003</b>		<b>16.6799</b>	<b>16.6799</b>	<b>3.2000e-004</b>	<b>3.1000e-004</b>	<b>16.7790</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.114082	1.2300e-003	0.0112	9.4000e-003	7.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		13.4214	13.4214	2.6000e-004	2.5000e-004	13.5012
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0.027697	3.0000e-004	2.7200e-003	2.2800e-003	2.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		3.2585	3.2585	6.0000e-005	6.0000e-005	3.2778
<b>Total</b>		<b>1.5300e-003</b>	<b>0.0139</b>	<b>0.0117</b>	<b>9.0000e-005</b>		<b>1.0600e-003</b>	<b>1.0600e-003</b>		<b>1.0600e-003</b>	<b>1.0600e-003</b>		<b>16.6799</b>	<b>16.6799</b>	<b>3.2000e-004</b>	<b>3.1000e-004</b>	<b>16.7790</b>

HP Fontana HQ & Yaar - South Coast Air Basin, Summer

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3683	7.0000e-005	7.6000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0162	0.0162	4.0000e-005		0.0173
Unmitigated	0.3899	7.0000e-005	7.6000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0162	0.0162	4.0000e-005		0.0173

HP Fontana HQ & Yaar - South Coast Air Basin, Summer

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3443					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.2000e-004	7.0000e-005	7.6000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0162	0.0162	4.0000e-005		0.0173
<b>Total</b>	<b>0.3899</b>	<b>7.0000e-005</b>	<b>7.6000e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>0.0162</b>	<b>0.0162</b>	<b>4.0000e-005</b>		<b>0.0173</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0233					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3443					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.2000e-004	7.0000e-005	7.6000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0162	0.0162	4.0000e-005		0.0173
<b>Total</b>	<b>0.3683</b>	<b>7.0000e-005</b>	<b>7.6000e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>0.0162</b>	<b>0.0162</b>	<b>4.0000e-005</b>		<b>0.0173</b>

**7.0 Water Detail**



## HP Fontana HQ &amp; Yaar - South Coast Air Basin, Summer

**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment****Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

HP Fontana HQ & Yaar - South Coast Air Basin, Winter

**HP Fontana HQ & Yaar**  
**South Coast Air Basin, Winter**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	12.00	1000sqft	0.28	12,000.00	0
Unrefrigerated Warehouse-No Rail	4.98	1000sqft	0.11	4,980.00	0
Parking Lot	57.00	Space	0.51	22,800.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<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**

HP Fontana HQ & Yaar - South Coast Air Basin, Winter

Project Characteristics -

Land Use -

Construction Phase - No demolition phase for project

Off-road Equipment - concrete saw default removed from default

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Architectural Coating - Arch Coating VOC per Rule 1113

Construction Off-road Equipment Mitigation - Construction mitigation per Fugitive Dust Rules

Area Mitigation - Use of LOW VOC per Rule 1113

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	10
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	25
tblTripsAndVMT	WorkerTripNumber	10.00	8.00

**2.0 Emissions Summary**

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HP Fontana HQ & Yaar - South Coast Air Basin, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3899	7.0000e-005	7.6000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0162	0.0162	4.0000e-005		0.0173
Energy	1.5300e-003	0.0139	0.0117	8.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003		16.6799	16.6799	3.2000e-004	3.1000e-004	16.7790
Mobile	0.2665	1.3749	3.4875	0.0118	0.9824	0.0123	0.9948	0.2629	0.0116	0.2744		1,203.8278	1,203.8278	0.0628		1,205.3976
<b>Total</b>	<b>0.6579</b>	<b>1.3889</b>	<b>3.5068</b>	<b>0.0119</b>	<b>0.9824</b>	<b>0.0134</b>	<b>0.9959</b>	<b>0.2629</b>	<b>0.0127</b>	<b>0.2755</b>		<b>1,220.5239</b>	<b>1,220.5239</b>	<b>0.0632</b>	<b>3.1000e-004</b>	<b>1,222.1939</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	0.3683	7.0000e-005	7.6000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0162	0.0162	4.0000e-005		0.0173
Energy	1.5300e-003	0.0139	0.0117	8.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003		16.6799	16.6799	3.2000e-004	3.1000e-004	16.7790
Mobile	0.2665	1.3749	3.4875	0.0118	0.9824	0.0123	0.9948	0.2629	0.0116	0.2744		1,203.8278	1,203.8278	0.0628		1,205.3976
<b>Total</b>	<b>0.6363</b>	<b>1.3889</b>	<b>3.5068</b>	<b>0.0119</b>	<b>0.9824</b>	<b>0.0134</b>	<b>0.9959</b>	<b>0.2629</b>	<b>0.0127</b>	<b>0.2755</b>		<b>1,220.5239</b>	<b>1,220.5239</b>	<b>0.0632</b>	<b>3.1000e-004</b>	<b>1,222.1939</b>

## HP Fontana HQ &amp; Yaar - South Coast Air Basin, 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	3.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	9/14/2019	9/16/2019	5	1	
2	Grading	Grading	9/17/2019	9/18/2019	5	2	
3	Building Construction	Building Construction	9/19/2019	2/5/2020	5	100	
4	Paving	Paving	2/6/2020	2/12/2020	5	5	
5	Architectural Coating	Architectural Coating	2/13/2020	2/19/2020	5	5	

**Acres of Grading (Site Preparation Phase): 0.5**

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

**Acres of Paving: 0.51**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 25,470; Non-Residential Outdoor: 8,490; Striped Parking Area: 1,368 (Architectural Coating – sqft)**

#### OffRoad Equipment

HP Fontana HQ & Yaar - South Coast Air Basin, Winter

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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	16.00	7.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

HP Fontana HQ & Yaar - South Coast Air Basin, Winter

- Use Soil Stabilizer
- Replace Ground Cover
- 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					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.7195	8.9170	4.1407	9.7500e-003		0.3672	0.3672		0.3378	0.3378		965.1690	965.1690	0.3054		972.8032
<b>Total</b>	<b>0.7195</b>	<b>8.9170</b>	<b>4.1407</b>	<b>9.7500e-003</b>	<b>0.5303</b>	<b>0.3672</b>	<b>0.8975</b>	<b>0.0573</b>	<b>0.3378</b>	<b>0.3951</b>		<b>965.1690</b>	<b>965.1690</b>	<b>0.3054</b>		<b>972.8032</b>



HP Fontana HQ & Yaar - South Coast Air Basin, 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	0.0267	0.0187	0.2035	5.6000e-004	0.0559	4.4000e-004	0.0563	0.0148	4.0000e-004	0.0152		55.3584	55.3584	1.7400e-003		55.4018
<b>Total</b>	<b>0.0267</b>	<b>0.0187</b>	<b>0.2035</b>	<b>5.6000e-004</b>	<b>0.0559</b>	<b>4.4000e-004</b>	<b>0.0563</b>	<b>0.0148</b>	<b>4.0000e-004</b>	<b>0.0152</b>		<b>55.3584</b>	<b>55.3584</b>	<b>1.7400e-003</b>		<b>55.4018</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2068	0.0000	0.2068	0.0223	0.0000	0.0223			0.0000			0.0000
Off-Road	0.7195	8.9170	4.1407	9.7500e-003		0.3672	0.3672		0.3378	0.3378	0.0000	965.1690	965.1690	0.3054		972.8032
<b>Total</b>	<b>0.7195</b>	<b>8.9170</b>	<b>4.1407</b>	<b>9.7500e-003</b>	<b>0.2068</b>	<b>0.3672</b>	<b>0.5740</b>	<b>0.0223</b>	<b>0.3378</b>	<b>0.3602</b>	<b>0.0000</b>	<b>965.1690</b>	<b>965.1690</b>	<b>0.3054</b>		<b>972.8032</b>

HP Fontana HQ & Yaar - South Coast Air Basin, Winter

**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	0.0267	0.0187	0.2035	5.6000e-004	0.0510	4.4000e-004	0.0515	0.0136	4.0000e-004	0.0140		55.3584	55.3584	1.7400e-003		55.4018
<b>Total</b>	<b>0.0267</b>	<b>0.0187</b>	<b>0.2035</b>	<b>5.6000e-004</b>	<b>0.0510</b>	<b>4.4000e-004</b>	<b>0.0515</b>	<b>0.0136</b>	<b>4.0000e-004</b>	<b>0.0140</b>		<b>55.3584</b>	<b>55.3584</b>	<b>1.7400e-003</b>		<b>55.4018</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					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125		1,159.6570	1,159.6570	0.2211		1,165.1847
<b>Total</b>	<b>0.9530</b>	<b>8.6039</b>	<b>7.6917</b>	<b>0.0120</b>	<b>0.7528</b>	<b>0.5371</b>	<b>1.2898</b>	<b>0.4138</b>	<b>0.5125</b>	<b>0.9263</b>		<b>1,159.6570</b>	<b>1,159.6570</b>	<b>0.2211</b>		<b>1,165.1847</b>

HP Fontana HQ & Yaar - South Coast Air Basin, Winter

**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	0.0427	0.0299	0.3256	8.9000e-004	0.0894	7.0000e-004	0.0901	0.0237	6.4000e-004	0.0244		88.5734	88.5734	2.7800e-003		88.6428
<b>Total</b>	<b>0.0427</b>	<b>0.0299</b>	<b>0.3256</b>	<b>8.9000e-004</b>	<b>0.0894</b>	<b>7.0000e-004</b>	<b>0.0901</b>	<b>0.0237</b>	<b>6.4000e-004</b>	<b>0.0244</b>		<b>88.5734</b>	<b>88.5734</b>	<b>2.7800e-003</b>		<b>88.6428</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2936	0.0000	0.2936	0.1614	0.0000	0.1614			0.0000			0.0000
Off-Road	0.9530	8.6039	7.6917	0.0120		0.5371	0.5371		0.5125	0.5125	0.0000	1,159.6570	1,159.6570	0.2211		1,165.1847
<b>Total</b>	<b>0.9530</b>	<b>8.6039</b>	<b>7.6917</b>	<b>0.0120</b>	<b>0.2936</b>	<b>0.5371</b>	<b>0.8307</b>	<b>0.1614</b>	<b>0.5125</b>	<b>0.6738</b>	<b>0.0000</b>	<b>1,159.6570</b>	<b>1,159.6570</b>	<b>0.2211</b>		<b>1,165.1847</b>

HP Fontana HQ & Yaar - South Coast Air Basin, Winter

**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	0.0427	0.0299	0.3256	8.9000e-004	0.0817	7.0000e-004	0.0824	0.0218	6.4000e-004	0.0225		88.5734	88.5734	2.7800e-003		88.6428
<b>Total</b>	<b>0.0427</b>	<b>0.0299</b>	<b>0.3256</b>	<b>8.9000e-004</b>	<b>0.0817</b>	<b>7.0000e-004</b>	<b>0.0824</b>	<b>0.0218</b>	<b>6.4000e-004</b>	<b>0.0225</b>		<b>88.5734</b>	<b>88.5734</b>	<b>2.7800e-003</b>		<b>88.6428</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	0.9576	9.8207	7.5432	0.0114		0.6054	0.6054		0.5569	0.5569		1,127.6696	1,127.6696	0.3568		1,136.5892
<b>Total</b>	<b>0.9576</b>	<b>9.8207</b>	<b>7.5432</b>	<b>0.0114</b>		<b>0.6054</b>	<b>0.6054</b>		<b>0.5569</b>	<b>0.5569</b>		<b>1,127.6696</b>	<b>1,127.6696</b>	<b>0.3568</b>		<b>1,136.5892</b>

HP Fontana HQ & Yaar - South Coast Air Basin, Winter

**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	0.0285	0.8045	0.2195	1.7500e-003	0.0448	5.4100e-003	0.0502	0.0129	5.1800e-003	0.0181		186.9973	186.9973	0.0138		187.3430
Worker	0.0853	0.0597	0.6512	1.7800e-003	0.1788	1.4000e-003	0.1802	0.0474	1.2900e-003	0.0487		177.1468	177.1468	5.5500e-003		177.2856
<b>Total</b>	<b>0.1138</b>	<b>0.8643</b>	<b>0.8706</b>	<b>3.5300e-003</b>	<b>0.2236</b>	<b>6.8100e-003</b>	<b>0.2304</b>	<b>0.0603</b>	<b>6.4700e-003</b>	<b>0.0668</b>		<b>364.1440</b>	<b>364.1440</b>	<b>0.0194</b>		<b>364.6286</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9576	9.8207	7.5432	0.0114		0.6054	0.6054		0.5569	0.5569	0.0000	1,127.6696	1,127.6696	0.3568		1,136.5892
<b>Total</b>	<b>0.9576</b>	<b>9.8207</b>	<b>7.5432</b>	<b>0.0114</b>		<b>0.6054</b>	<b>0.6054</b>		<b>0.5569</b>	<b>0.5569</b>	<b>0.0000</b>	<b>1,127.6696</b>	<b>1,127.6696</b>	<b>0.3568</b>		<b>1,136.5892</b>

HP Fontana HQ & Yaar - South Coast Air Basin, Winter

**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	0.0285	0.8045	0.2195	1.7500e-003	0.0416	5.4100e-003	0.0470	0.0121	5.1800e-003	0.0173		186.9973	186.9973	0.0138		187.3430
Worker	0.0853	0.0597	0.6512	1.7800e-003	0.1633	1.4000e-003	0.1647	0.0436	1.2900e-003	0.0449		177.1468	177.1468	5.5500e-003		177.2856
<b>Total</b>	<b>0.1138</b>	<b>0.8643</b>	<b>0.8706</b>	<b>3.5300e-003</b>	<b>0.2049</b>	<b>6.8100e-003</b>	<b>0.2117</b>	<b>0.0557</b>	<b>6.4700e-003</b>	<b>0.0622</b>		<b>364.1440</b>	<b>364.1440</b>	<b>0.0194</b>		<b>364.6286</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	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806		1,102.9781	1,102.9781	0.3567		1,111.8962
<b>Total</b>	<b>0.8617</b>	<b>8.8523</b>	<b>7.3875</b>	<b>0.0114</b>		<b>0.5224</b>	<b>0.5224</b>		<b>0.4806</b>	<b>0.4806</b>		<b>1,102.9781</b>	<b>1,102.9781</b>	<b>0.3567</b>		<b>1,111.8962</b>

HP Fontana HQ & Yaar - South Coast Air Basin, Winter

**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	0.0243	0.7370	0.1987	1.7400e-003	0.0448	3.7000e-003	0.0485	0.0129	3.5400e-003	0.0164		185.7642	185.7642	0.0131		186.0907
Worker	0.0790	0.0533	0.5913	1.7200e-003	0.1788	1.3600e-003	0.1802	0.0474	1.2600e-003	0.0487		171.6562	171.6562	4.9400e-003		171.7797
<b>Total</b>	<b>0.1033</b>	<b>0.7903</b>	<b>0.7901</b>	<b>3.4600e-003</b>	<b>0.2236</b>	<b>5.0600e-003</b>	<b>0.2287</b>	<b>0.0603</b>	<b>4.8000e-003</b>	<b>0.0651</b>		<b>357.4204</b>	<b>357.4204</b>	<b>0.0180</b>		<b>357.8705</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8617	8.8523	7.3875	0.0114		0.5224	0.5224		0.4806	0.4806	0.0000	1,102.9781	1,102.9781	0.3567		1,111.8962
<b>Total</b>	<b>0.8617</b>	<b>8.8523</b>	<b>7.3875</b>	<b>0.0114</b>		<b>0.5224</b>	<b>0.5224</b>		<b>0.4806</b>	<b>0.4806</b>	<b>0.0000</b>	<b>1,102.9781</b>	<b>1,102.9781</b>	<b>0.3567</b>		<b>1,111.8962</b>

HP Fontana HQ & Yaar - South Coast Air Basin, Winter

**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	0.0243	0.7370	0.1987	1.7400e-003	0.0416	3.7000e-003	0.0453	0.0121	3.5400e-003	0.0157		185.7642	185.7642	0.0131		186.0907
Worker	0.0790	0.0533	0.5913	1.7200e-003	0.1633	1.3600e-003	0.1647	0.0436	1.2600e-003	0.0449		171.6562	171.6562	4.9400e-003		171.7797
<b>Total</b>	<b>0.1033</b>	<b>0.7903</b>	<b>0.7901</b>	<b>3.4600e-003</b>	<b>0.2049</b>	<b>5.0600e-003</b>	<b>0.2100</b>	<b>0.0557</b>	<b>4.8000e-003</b>	<b>0.0605</b>		<b>357.4204</b>	<b>357.4204</b>	<b>0.0180</b>		<b>357.8705</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	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669		1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.2672					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0388</b>	<b>7.2266</b>	<b>7.1128</b>	<b>0.0113</b>		<b>0.3950</b>	<b>0.3950</b>		<b>0.3669</b>	<b>0.3669</b>		<b>1,035.3926</b>	<b>1,035.3926</b>	<b>0.3016</b>		<b>1,042.9323</b>



HP Fontana HQ & Yaar - South Coast Air Basin, Winter

**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	0.0888	0.0600	0.6653	1.9400e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		193.1132	193.1132	5.5600e-003		193.2522
<b>Total</b>	<b>0.0888</b>	<b>0.0600</b>	<b>0.6653</b>	<b>1.9400e-003</b>	<b>0.2012</b>	<b>1.5300e-003</b>	<b>0.2027</b>	<b>0.0534</b>	<b>1.4100e-003</b>	<b>0.0548</b>		<b>193.1132</b>	<b>193.1132</b>	<b>5.5600e-003</b>		<b>193.2522</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669	0.0000	1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.2672					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0388</b>	<b>7.2266</b>	<b>7.1128</b>	<b>0.0113</b>		<b>0.3950</b>	<b>0.3950</b>		<b>0.3669</b>	<b>0.3669</b>	<b>0.0000</b>	<b>1,035.3926</b>	<b>1,035.3926</b>	<b>0.3016</b>		<b>1,042.9323</b>

HP Fontana HQ & Yaar - South Coast Air Basin, Winter

**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	0.0888	0.0600	0.6653	1.9400e-003	0.1837	1.5300e-003	0.1852	0.0491	1.4100e-003	0.0505		193.1132	193.1132	5.5600e-003		193.2522
<b>Total</b>	<b>0.0888</b>	<b>0.0600</b>	<b>0.6653</b>	<b>1.9400e-003</b>	<b>0.1837</b>	<b>1.5300e-003</b>	<b>0.1852</b>	<b>0.0491</b>	<b>1.4100e-003</b>	<b>0.0505</b>		<b>193.1132</b>	<b>193.1132</b>	<b>5.5600e-003</b>		<b>193.2522</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	17.0086					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>17.2508</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>

HP Fontana HQ & Yaar - South Coast Air Basin, Winter

**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	0.0148	9.9900e-003	0.1109	3.2000e-004	0.0335	2.6000e-004	0.0338	8.8900e-003	2.4000e-004	9.1300e-003		32.1855	32.1855	9.3000e-004		32.2087
<b>Total</b>	<b>0.0148</b>	<b>9.9900e-003</b>	<b>0.1109</b>	<b>3.2000e-004</b>	<b>0.0335</b>	<b>2.6000e-004</b>	<b>0.0338</b>	<b>8.8900e-003</b>	<b>2.4000e-004</b>	<b>9.1300e-003</b>		<b>32.1855</b>	<b>32.1855</b>	<b>9.3000e-004</b>		<b>32.2087</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	17.0086					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>17.2508</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>

HP Fontana HQ & Yaar - South Coast Air Basin, Winter

**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	0.0148	9.9900e-003	0.1109	3.2000e-004	0.0306	2.6000e-004	0.0309	8.1800e-003	2.4000e-004	8.4100e-003		32.1855	32.1855	9.3000e-004		32.2087
<b>Total</b>	<b>0.0148</b>	<b>9.9900e-003</b>	<b>0.1109</b>	<b>3.2000e-004</b>	<b>0.0306</b>	<b>2.6000e-004</b>	<b>0.0309</b>	<b>8.1800e-003</b>	<b>2.4000e-004</b>	<b>8.4100e-003</b>		<b>32.1855</b>	<b>32.1855</b>	<b>9.3000e-004</b>		<b>32.2087</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

HP Fontana HQ & Yaar - South Coast Air Basin, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2665	1.3749	3.4875	0.0118	0.9824	0.0123	0.9948	0.2629	0.0116	0.2744		1,203.8278	1,203.8278	0.0628		1,205.3976
Unmitigated	0.2665	1.3749	3.4875	0.0118	0.9824	0.0123	0.9948	0.2629	0.0116	0.2744		1,203.8278	1,203.8278	0.0628		1,205.3976

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	132.36	29.52	12.60	323,950	323,950
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	8.37	8.37	8.37	35,856	35,856
Total	140.73	37.89	20.97	359,806	359,806

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

HP Fontana HQ & Yaar - South Coast Air Basin, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.550339	0.043800	0.200255	0.122233	0.016799	0.005871	0.020633	0.029727	0.002027	0.001932	0.004726	0.000704	0.000955
Parking Lot	0.550339	0.043800	0.200255	0.122233	0.016799	0.005871	0.020633	0.029727	0.002027	0.001932	0.004726	0.000704	0.000955
Unrefrigerated Warehouse-No Rail	0.550339	0.043800	0.200255	0.122233	0.016799	0.005871	0.020633	0.029727	0.002027	0.001932	0.004726	0.000704	0.000955

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	1.5300e-003	0.0139	0.0117	8.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003		16.6799	16.6799	3.2000e-004	3.1000e-004	16.7790
NaturalGas Unmitigated	1.5300e-003	0.0139	0.0117	8.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003		16.6799	16.6799	3.2000e-004	3.1000e-004	16.7790

HP Fontana HQ & Yaar - South Coast Air Basin, Winter

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	114.082	1.2300e-003	0.0112	9.4000e-003	7.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		13.4214	13.4214	2.6000e-004	2.5000e-004	13.5012
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	27.697	3.0000e-004	2.7200e-003	2.2800e-003	2.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		3.2585	3.2585	6.0000e-005	6.0000e-005	3.2778
<b>Total</b>		<b>1.5300e-003</b>	<b>0.0139</b>	<b>0.0117</b>	<b>9.0000e-005</b>		<b>1.0600e-003</b>	<b>1.0600e-003</b>		<b>1.0600e-003</b>	<b>1.0600e-003</b>		<b>16.6799</b>	<b>16.6799</b>	<b>3.2000e-004</b>	<b>3.1000e-004</b>	<b>16.7790</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	0.114082	1.2300e-003	0.0112	9.4000e-003	7.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		13.4214	13.4214	2.6000e-004	2.5000e-004	13.5012
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0.027697	3.0000e-004	2.7200e-003	2.2800e-003	2.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		3.2585	3.2585	6.0000e-005	6.0000e-005	3.2778
<b>Total</b>		<b>1.5300e-003</b>	<b>0.0139</b>	<b>0.0117</b>	<b>9.0000e-005</b>		<b>1.0600e-003</b>	<b>1.0600e-003</b>		<b>1.0600e-003</b>	<b>1.0600e-003</b>		<b>16.6799</b>	<b>16.6799</b>	<b>3.2000e-004</b>	<b>3.1000e-004</b>	<b>16.7790</b>

HP Fontana HQ & Yaar - South Coast Air Basin, Winter

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3683	7.0000e-005	7.6000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0162	0.0162	4.0000e-005		0.0173
Unmitigated	0.3899	7.0000e-005	7.6000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0162	0.0162	4.0000e-005		0.0173



HP Fontana HQ & Yaar - South Coast Air Basin, Winter

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0449					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3443					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.2000e-004	7.0000e-005	7.6000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0162	0.0162	4.0000e-005		0.0173
<b>Total</b>	<b>0.3899</b>	<b>7.0000e-005</b>	<b>7.6000e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>0.0162</b>	<b>0.0162</b>	<b>4.0000e-005</b>		<b>0.0173</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0233					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3443					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.2000e-004	7.0000e-005	7.6000e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0162	0.0162	4.0000e-005		0.0173
<b>Total</b>	<b>0.3683</b>	<b>7.0000e-005</b>	<b>7.6000e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>0.0162</b>	<b>0.0162</b>	<b>4.0000e-005</b>		<b>0.0173</b>

**7.0 Water Detail**

## HP Fontana HQ &amp; Yaar - South Coast Air Basin, Winter

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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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**HP Fontana HQ & Yaar**  
**South Coast Air Basin, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	12.00	1000sqft	0.28	12,000.00	0
Unrefrigerated Warehouse-No Rail	4.98	1000sqft	0.11	4,980.00	0
Parking Lot	57.00	Space	0.51	22,800.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<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 -

Land Use -

Construction Phase - No demolition phase for project

Off-road Equipment - concrete saw default removed from default

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Architectural Coating - Arch Coating VOC per Rule 1113

Construction Off-road Equipment Mitigation - Construction mitigation per Fugitive Dust Rules

Area Mitigation - Use of LOW VOC per Rule 1113

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	10
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	25
tblTripsAndVMT	WorkerTripNumber	10.00	8.00

**2.0 Emissions Summary**

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-2-2019	12-1-2019	0.3279	0.3279
2	12-2-2019	3-1-2020	0.3308	0.3308
		Highest	0.3308	0.3308

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	0.0711	1.0000e-005	9.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8400e-003	1.8400e-003	0.0000	0.0000	1.9600e-003
Energy	2.8000e-004	2.5400e-003	2.1300e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	45.4482	45.4482	1.8200e-003	4.2000e-004	45.6173
Mobile	0.0367	0.1980	0.5007	1.7000e-003	0.1367	1.7400e-003	0.1384	0.0366	1.6300e-003	0.0383	0.0000	156.7380	156.7380	8.0200e-003	0.0000	156.9386
Waste						0.0000	0.0000		0.0000	0.0000	3.2154	0.0000	3.2154	0.1900	0.0000	7.9660
Water						0.0000	0.0000		0.0000	0.0000	1.0420	18.2537	19.2957	0.1078	2.6800e-003	22.7896
<b>Total</b>	<b>0.1081</b>	<b>0.2006</b>	<b>0.5038</b>	<b>1.7200e-003</b>	<b>0.1367</b>	<b>1.9300e-003</b>	<b>0.1386</b>	<b>0.0366</b>	<b>1.8200e-003</b>	<b>0.0384</b>	<b>4.2574</b>	<b>220.4417</b>	<b>224.6991</b>	<b>0.3076</b>	<b>3.1000e-003</b>	<b>233.3134</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	0.0672	1.0000e-005	9.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8400e-003	1.8400e-003	0.0000	0.0000	1.9600e-003
Energy	2.8000e-004	2.5400e-003	2.1300e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	45.4482	45.4482	1.8200e-003	4.2000e-004	45.6173
Mobile	0.0367	0.1980	0.5007	1.7000e-003	0.1367	1.7400e-003	0.1384	0.0366	1.6300e-003	0.0383	0.0000	156.7380	156.7380	8.0200e-003	0.0000	156.9386
Waste						0.0000	0.0000		0.0000	0.0000	3.2154	0.0000	3.2154	0.1900	0.0000	7.9660
Water						0.0000	0.0000		0.0000	0.0000	1.0420	18.2537	19.2957	0.1078	2.6800e-003	22.7896
<b>Total</b>	<b>0.1041</b>	<b>0.2006</b>	<b>0.5038</b>	<b>1.7200e-003</b>	<b>0.1367</b>	<b>1.9300e-003</b>	<b>0.1386</b>	<b>0.0366</b>	<b>1.8200e-003</b>	<b>0.0384</b>	<b>4.2574</b>	<b>220.4417</b>	<b>224.6991</b>	<b>0.3076</b>	<b>3.1000e-003</b>	<b>233.3134</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	3.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

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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	9/14/2019	9/16/2019	5	1	
2	Grading	Grading	9/17/2019	9/18/2019	5	2	
3	Building Construction	Building Construction	9/19/2019	2/5/2020	5	100	
4	Paving	Paving	2/6/2020	2/12/2020	5	5	
5	Architectural Coating	Architectural Coating	2/13/2020	2/19/2020	5	5	

**Acres of Grading (Site Preparation Phase): 0.5**

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

**Acres of Paving: 0.51**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 25,470; Non-Residential Outdoor: 8,490; Striped Parking Area: 1,368 (Architectural Coating – sqft)**

**OffRoad Equipment**



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

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	16.00	7.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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- Use Soil Stabilizer
- Replace Ground Cover
- 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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6000e-004	4.4600e-003	2.0700e-003	0.0000		1.8000e-004	1.8000e-004		1.7000e-004	1.7000e-004	0.0000	0.4378	0.4378	1.4000e-004	0.0000	0.4413
<b>Total</b>	<b>3.6000e-004</b>	<b>4.4600e-003</b>	<b>2.0700e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>1.8000e-004</b>	<b>4.5000e-004</b>	<b>3.0000e-005</b>	<b>1.7000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.4378</b>	<b>0.4378</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4413</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	1.0000e-005	1.0000e-005	1.0000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0255	0.0255	0.0000	0.0000	0.0255
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0255</b>	<b>0.0255</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0255</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0000e-004	0.0000	1.0000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6000e-004	4.4600e-003	2.0700e-003	0.0000		1.8000e-004	1.8000e-004		1.7000e-004	1.7000e-004	0.0000	0.4378	0.4378	1.4000e-004	0.0000	0.4413
<b>Total</b>	<b>3.6000e-004</b>	<b>4.4600e-003</b>	<b>2.0700e-003</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>1.8000e-004</b>	<b>2.8000e-004</b>	<b>1.0000e-005</b>	<b>1.7000e-004</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.4378</b>	<b>0.4378</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4413</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	1.0000e-005	1.0000e-005	1.0000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0255	0.0255	0.0000	0.0000	0.0255
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0255</b>	<b>0.0255</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0255</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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5000e-004	8.6000e-003	7.6900e-003	1.0000e-005		5.4000e-004	5.4000e-004		5.1000e-004	5.1000e-004	0.0000	1.0520	1.0520	2.0000e-004	0.0000	1.0570
<b>Total</b>	<b>9.5000e-004</b>	<b>8.6000e-003</b>	<b>7.6900e-003</b>	<b>1.0000e-005</b>	<b>7.5000e-004</b>	<b>5.4000e-004</b>	<b>1.2900e-003</b>	<b>4.1000e-004</b>	<b>5.1000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>1.0520</b>	<b>1.0520</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>1.0570</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	4.0000e-005	3.0000e-005	3.3000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0816	0.0816	0.0000	0.0000	0.0817
<b>Total</b>	<b>4.0000e-005</b>	<b>3.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0816</b>	<b>0.0816</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0817</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.9000e-004	0.0000	2.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.5000e-004	8.6000e-003	7.6900e-003	1.0000e-005		5.4000e-004	5.4000e-004		5.1000e-004	5.1000e-004	0.0000	1.0520	1.0520	2.0000e-004	0.0000	1.0570
<b>Total</b>	<b>9.5000e-004</b>	<b>8.6000e-003</b>	<b>7.6900e-003</b>	<b>1.0000e-005</b>	<b>2.9000e-004</b>	<b>5.4000e-004</b>	<b>8.3000e-004</b>	<b>1.6000e-004</b>	<b>5.1000e-004</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>1.0520</b>	<b>1.0520</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>1.0570</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	4.0000e-005	3.0000e-005	3.3000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0816	0.0816	0.0000	0.0000	0.0817
<b>Total</b>	<b>4.0000e-005</b>	<b>3.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0816</b>	<b>0.0816</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0817</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	0.0354	0.3634	0.2791	4.2000e-004		0.0224	0.0224		0.0206	0.0206	0.0000	37.8512	37.8512	0.0120	0.0000	38.1506
<b>Total</b>	<b>0.0354</b>	<b>0.3634</b>	<b>0.2791</b>	<b>4.2000e-004</b>		<b>0.0224</b>	<b>0.0224</b>		<b>0.0206</b>	<b>0.0206</b>	<b>0.0000</b>	<b>37.8512</b>	<b>37.8512</b>	<b>0.0120</b>	<b>0.0000</b>	<b>38.1506</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	1.0300e-003	0.0303	7.7300e-003	7.0000e-005	1.6300e-003	2.0000e-004	1.8300e-003	4.7000e-004	1.9000e-004	6.6000e-004	0.0000	6.3772	6.3772	4.5000e-004	0.0000	6.3884
Worker	2.8500e-003	2.2700e-003	0.0247	7.0000e-005	6.5000e-003	5.0000e-005	6.5500e-003	1.7200e-003	5.0000e-005	1.7700e-003	0.0000	6.0399	6.0399	1.9000e-004	0.0000	6.0446
<b>Total</b>	<b>3.8800e-003</b>	<b>0.0326</b>	<b>0.0325</b>	<b>1.4000e-004</b>	<b>8.1300e-003</b>	<b>2.5000e-004</b>	<b>8.3800e-003</b>	<b>2.1900e-003</b>	<b>2.4000e-004</b>	<b>2.4300e-003</b>	<b>0.0000</b>	<b>12.4171</b>	<b>12.4171</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>12.4330</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	0.0354	0.3634	0.2791	4.2000e-004		0.0224	0.0224		0.0206	0.0206	0.0000	37.8511	37.8511	0.0120	0.0000	38.1505
<b>Total</b>	<b>0.0354</b>	<b>0.3634</b>	<b>0.2791</b>	<b>4.2000e-004</b>		<b>0.0224</b>	<b>0.0224</b>		<b>0.0206</b>	<b>0.0206</b>	<b>0.0000</b>	<b>37.8511</b>	<b>37.8511</b>	<b>0.0120</b>	<b>0.0000</b>	<b>38.1505</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	1.0300e-003	0.0303	7.7300e-003	7.0000e-005	1.5200e-003	2.0000e-004	1.7100e-003	4.4000e-004	1.9000e-004	6.3000e-004	0.0000	6.3772	6.3772	4.5000e-004	0.0000	6.3884
Worker	2.8500e-003	2.2700e-003	0.0247	7.0000e-005	5.9300e-003	5.0000e-005	5.9800e-003	1.5900e-003	5.0000e-005	1.6300e-003	0.0000	6.0399	6.0399	1.9000e-004	0.0000	6.0446
<b>Total</b>	<b>3.8800e-003</b>	<b>0.0326</b>	<b>0.0325</b>	<b>1.4000e-004</b>	<b>7.4500e-003</b>	<b>2.5000e-004</b>	<b>7.6900e-003</b>	<b>2.0300e-003</b>	<b>2.4000e-004</b>	<b>2.2600e-003</b>	<b>0.0000</b>	<b>12.4171</b>	<b>12.4171</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>12.4330</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	0.0112	0.1151	0.0960	1.5000e-004		6.7900e-003	6.7900e-003		6.2500e-003	6.2500e-003	0.0000	13.0079	13.0079	4.2100e-003	0.0000	13.1130
<b>Total</b>	<b>0.0112</b>	<b>0.1151</b>	<b>0.0960</b>	<b>1.5000e-004</b>		<b>6.7900e-003</b>	<b>6.7900e-003</b>		<b>6.2500e-003</b>	<b>6.2500e-003</b>	<b>0.0000</b>	<b>13.0079</b>	<b>13.0079</b>	<b>4.2100e-003</b>	<b>0.0000</b>	<b>13.1130</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	3.1000e-004	9.7600e-003	2.4600e-003	2.0000e-005	5.7000e-004	5.0000e-005	6.2000e-004	1.7000e-004	5.0000e-005	2.1000e-004	0.0000	2.2263	2.2263	1.5000e-004	0.0000	2.2300
Worker	9.3000e-004	7.1000e-004	7.8900e-003	2.0000e-005	2.2800e-003	2.0000e-005	2.3000e-003	6.1000e-004	2.0000e-005	6.2000e-004	0.0000	2.0564	2.0564	6.0000e-005	0.0000	2.0578
<b>Total</b>	<b>1.2400e-003</b>	<b>0.0105</b>	<b>0.0104</b>	<b>4.0000e-005</b>	<b>2.8500e-003</b>	<b>7.0000e-005</b>	<b>2.9200e-003</b>	<b>7.8000e-004</b>	<b>7.0000e-005</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>4.2826</b>	<b>4.2826</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>4.2878</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	0.0112	0.1151	0.0960	1.5000e-004		6.7900e-003	6.7900e-003		6.2500e-003	6.2500e-003	0.0000	13.0079	13.0079	4.2100e-003	0.0000	13.1130
<b>Total</b>	<b>0.0112</b>	<b>0.1151</b>	<b>0.0960</b>	<b>1.5000e-004</b>		<b>6.7900e-003</b>	<b>6.7900e-003</b>		<b>6.2500e-003</b>	<b>6.2500e-003</b>	<b>0.0000</b>	<b>13.0079</b>	<b>13.0079</b>	<b>4.2100e-003</b>	<b>0.0000</b>	<b>13.1130</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	3.1000e-004	9.7600e-003	2.4600e-003	2.0000e-005	5.3000e-004	5.0000e-005	5.8000e-004	1.6000e-004	5.0000e-005	2.0000e-004	0.0000	2.2263	2.2263	1.5000e-004	0.0000	2.2300
Worker	9.3000e-004	7.1000e-004	7.8900e-003	2.0000e-005	2.0800e-003	2.0000e-005	2.1000e-003	5.6000e-004	2.0000e-005	5.7000e-004	0.0000	2.0564	2.0564	6.0000e-005	0.0000	2.0578
<b>Total</b>	<b>1.2400e-003</b>	<b>0.0105</b>	<b>0.0104</b>	<b>4.0000e-005</b>	<b>2.6100e-003</b>	<b>7.0000e-005</b>	<b>2.6800e-003</b>	<b>7.2000e-004</b>	<b>7.0000e-005</b>	<b>7.7000e-004</b>	<b>0.0000</b>	<b>4.2826</b>	<b>4.2826</b>	<b>2.1000e-004</b>	<b>0.0000</b>	<b>4.2878</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	1.9300e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653
Paving	6.7000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.6000e-003</b>	<b>0.0181</b>	<b>0.0178</b>	<b>3.0000e-005</b>		<b>9.9000e-004</b>	<b>9.9000e-004</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>2.3482</b>	<b>2.3482</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>2.3653</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	2.0000e-004	1.5000e-004	1.7100e-003	0.0000	4.9000e-004	0.0000	5.0000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4449	0.4449	1.0000e-005	0.0000	0.4452
<b>Total</b>	<b>2.0000e-004</b>	<b>1.5000e-004</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>5.0000e-004</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>1.3000e-004</b>	<b>0.0000</b>	<b>0.4449</b>	<b>0.4449</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4452</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.9300e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653
Paving	6.7000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>2.6000e-003</b>	<b>0.0181</b>	<b>0.0178</b>	<b>3.0000e-005</b>		<b>9.9000e-004</b>	<b>9.9000e-004</b>		<b>9.2000e-004</b>	<b>9.2000e-004</b>	<b>0.0000</b>	<b>2.3482</b>	<b>2.3482</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>2.3653</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	2.0000e-004	1.5000e-004	1.7100e-003	0.0000	4.5000e-004	0.0000	4.5000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4449	0.4449	1.0000e-005	0.0000	0.4452
<b>Total</b>	<b>2.0000e-004</b>	<b>1.5000e-004</b>	<b>1.7100e-003</b>	<b>0.0000</b>	<b>4.5000e-004</b>	<b>0.0000</b>	<b>4.5000e-004</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>0.4449</b>	<b>0.4449</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4452</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	0.0425					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1000e-004	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396
<b>Total</b>	<b>0.0431</b>	<b>4.2100e-003</b>	<b>4.5800e-003</b>	<b>1.0000e-005</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>0.6383</b>	<b>0.6383</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.6396</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	3.0000e-005	3.0000e-005	2.8000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0742	0.0742	0.0000	0.0000	0.0742
<b>Total</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0742</b>	<b>0.0742</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0742</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	0.0425					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1000e-004	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396
<b>Total</b>	<b>0.0431</b>	<b>4.2100e-003</b>	<b>4.5800e-003</b>	<b>1.0000e-005</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>		<b>2.8000e-004</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>0.6383</b>	<b>0.6383</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.6396</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	3.0000e-005	3.0000e-005	2.8000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0742	0.0742	0.0000	0.0000	0.0742
<b>Total</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0742</b>	<b>0.0742</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0742</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	0.0367	0.1980	0.5007	1.7000e-003	0.1367	1.7400e-003	0.1384	0.0366	1.6300e-003	0.0383	0.0000	156.7380	156.7380	8.0200e-003	0.0000	156.9386
Unmitigated	0.0367	0.1980	0.5007	1.7000e-003	0.1367	1.7400e-003	0.1384	0.0366	1.6300e-003	0.0383	0.0000	156.7380	156.7380	8.0200e-003	0.0000	156.9386

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	132.36	29.52	12.60	323,950	323,950
Parking Lot	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	8.37	8.37	8.37	35,856	35,856
Total	140.73	37.89	20.97	359,806	359,806

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.550339	0.043800	0.200255	0.122233	0.016799	0.005871	0.020633	0.029727	0.002027	0.001932	0.004726	0.000704	0.000955
Parking Lot	0.550339	0.043800	0.200255	0.122233	0.016799	0.005871	0.020633	0.029727	0.002027	0.001932	0.004726	0.000704	0.000955
Unrefrigerated Warehouse-No Rail	0.550339	0.043800	0.200255	0.122233	0.016799	0.005871	0.020633	0.029727	0.002027	0.001932	0.004726	0.000704	0.000955

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	42.6866	42.6866	1.7600e-003	3.6000e-004	42.8393
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	42.6866	42.6866	1.7600e-003	3.6000e-004	42.8393
NaturalGas Mitigated	2.8000e-004	2.5400e-003	2.1300e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7616	2.7616	5.0000e-005	5.0000e-005	2.7780
NaturalGas Unmitigated	2.8000e-004	2.5400e-003	2.1300e-003	2.0000e-005		1.9000e-004	1.9000e-004		1.9000e-004	1.9000e-004	0.0000	2.7616	2.7616	5.0000e-005	5.0000e-005	2.7780



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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	41640	2.2000e-004	2.0400e-003	1.7100e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.2221	2.2221	4.0000e-005	4.0000e-005	2.2353
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	10109.4	5.0000e-005	5.0000e-004	4.2000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5395	0.5395	1.0000e-005	1.0000e-005	0.5427
<b>Total</b>		<b>2.7000e-004</b>	<b>2.5400e-003</b>	<b>2.1300e-003</b>	<b>1.0000e-005</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.7616</b>	<b>2.7616</b>	<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>2.7780</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	41640	2.2000e-004	2.0400e-003	1.7100e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.2221	2.2221	4.0000e-005	4.0000e-005	2.2353
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	10109.4	5.0000e-005	5.0000e-004	4.2000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5395	0.5395	1.0000e-005	1.0000e-005	0.5427
<b>Total</b>		<b>2.7000e-004</b>	<b>2.5400e-003</b>	<b>2.1300e-003</b>	<b>1.0000e-005</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>		<b>2.0000e-004</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>2.7616</b>	<b>2.7616</b>	<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>2.7780</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	114240	36.3993	1.5000e-003	3.1000e-004	36.5295
Parking Lot	7980	2.5426	1.0000e-004	2.0000e-005	2.5517
Unrefrigerated Warehouse-No Rail	11752.8	3.7447	1.5000e-004	3.0000e-005	3.7581
<b>Total</b>		<b>42.6866</b>	<b>1.7500e-003</b>	<b>3.6000e-004</b>	<b>42.8393</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	114240	36.3993	1.5000e-003	3.1000e-004	36.5295
Parking Lot	7980	2.5426	1.0000e-004	2.0000e-005	2.5517
Unrefrigerated Warehouse-No Rail	11752.8	3.7447	1.5000e-004	3.0000e-005	3.7581
<b>Total</b>		<b>42.6866</b>	<b>1.7500e-003</b>	<b>3.6000e-004</b>	<b>42.8393</b>

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**6.0 Area Detail**

**6.1 Mitigation Measures Area**

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive 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	0.0672	1.0000e-005	9.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8400e-003	1.8400e-003	0.0000	0.0000	1.9600e-003
Unmitigated	0.0711	1.0000e-005	9.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8400e-003	1.8400e-003	0.0000	0.0000	1.9600e-003

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**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	8.1900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0628					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.0000e-005	1.0000e-005	9.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8400e-003	1.8400e-003	0.0000	0.0000	1.9600e-003
<b>Total</b>	<b>0.0711</b>	<b>1.0000e-005</b>	<b>9.5000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.8400e-003</b>	<b>1.8400e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.9600e-003</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.2500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0628					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.0000e-005	1.0000e-005	9.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.8400e-003	1.8400e-003	0.0000	0.0000	1.9600e-003
<b>Total</b>	<b>0.0672</b>	<b>1.0000e-005</b>	<b>9.5000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.8400e-003</b>	<b>1.8400e-003</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.9600e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	19.2957	0.1078	2.6800e-003	22.7896
Unmitigated	19.2957	0.1078	2.6800e-003	22.7896

**7.2 Water by Land Use****Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	2.1328 / 1.3072	14.1525	0.0701	1.7600e-003	16.4272
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.15162 / 0	5.1432	0.0377	9.3000e-004	6.3625
<b>Total</b>		<b>19.2957</b>	<b>0.1078</b>	<b>2.6900e-003</b>	<b>22.7896</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			
General Office Building	2.1328 / 1.3072	14.1525	0.0701	1.7600e-003	16.4272
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	1.15162 / 0	5.1432	0.0377	9.3000e-004	6.3625
<b>Total</b>		<b>19.2957</b>	<b>0.1078</b>	<b>2.6900e-003</b>	<b>22.7896</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.2154	0.1900	0.0000	7.9660
Unmitigated	3.2154	0.1900	0.0000	7.9660

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	11.16	2.2654	0.1339	0.0000	5.6124
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	4.68	0.9500	0.0561	0.0000	2.3536
<b>Total</b>		<b>3.2154</b>	<b>0.1900</b>	<b>0.0000</b>	<b>7.9660</b>

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**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	11.16	2.2654	0.1339	0.0000	5.6124
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	4.68	0.9500	0.0561	0.0000	2.3536
<b>Total</b>		<b>3.2154</b>	<b>0.1900</b>	<b>0.0000</b>	<b>7.9660</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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## HP Fontana HQ & Yaar South Coast Air Basin, 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
Cement and Mortar Mixers	Diesel	No Change	0	4	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	2	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Rollers	Diesel	No Change	0	1	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	1	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	6	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	6.10000E-004	4.21000E-003	4.58000E-003	1.00000E-005	2.80000E-004	2.80000E-004	0.00000E+000	6.38310E-001	6.38310E-001	5.00000E-005	0.00000E+000	6.39550E-001
Cement and Mortar Mixers	4.40000E-004	2.76000E-003	2.31000E-003	1.00000E-005	1.10000E-004	1.10000E-004	0.00000E+000	3.43710E-001	3.43710E-001	4.00000E-005	0.00000E+000	3.44600E-001
Concrete/Industrial Saws	4.60000E-004	3.59000E-003	3.70000E-003	1.00000E-005	2.30000E-004	2.30000E-004	0.00000E+000	5.37660E-001	5.37660E-001	4.00000E-005	0.00000E+000	5.38600E-001
Cranes	1.22700E-002	1.46170E-001	5.61700E-002	1.40000E-004	6.16000E-003	5.66000E-003	0.00000E+000	1.28816E+001	1.28816E+001	4.10000E-003	0.00000E+000	1.29841E+001
Forklifts	1.16900E-002	1.04570E-001	8.92900E-002	1.10000E-004	8.03000E-003	7.38000E-003	0.00000E+000	1.02375E+001	1.02375E+001	3.26000E-003	0.00000E+000	1.03189E+001
Graders	2.40000E-004	3.29000E-003	9.20000E-004	0.00000E+000	1.10000E-004	1.00000E-004	0.00000E+000	2.98290E-001	2.98290E-001	9.00000E-005	0.00000E+000	3.00650E-001
Pavers	5.70000E-004	6.15000E-003	6.34000E-003	1.00000E-005	3.00000E-004	2.70000E-004	0.00000E+000	9.03470E-001	9.03470E-001	2.90000E-004	0.00000E+000	9.10780E-001
Rollers	4.60000E-004	4.55000E-003	4.14000E-003	1.00000E-005	2.90000E-004	2.70000E-004	0.00000E+000	5.04190E-001	5.04190E-001	1.60000E-004	0.00000E+000	5.08260E-001
Rubber Tired Dozers	1.40000E-004	1.51000E-003	5.40000E-004	0.00000E+000	7.00000E-005	7.00000E-005	0.00000E+000	9.58700E-002	9.58700E-002	3.00000E-005	0.00000E+000	9.66300E-002
Tractors/Loaders/Backhoes	2.36000E-002	2.36980E-001	2.39260E-001	3.20000E-004	1.56100E-002	1.43600E-002	0.00000E+000	2.88948E+001	2.88948E+001	9.20000E-003	0.00000E+000	2.91247E+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	6.10000E-004	4.21000E-003	4.58000E-003	1.00000E-005	2.80000E-004	2.80000E-004	0.00000E+000	6.38310E-001	6.38310E-001	5.00000E-005	0.00000E+000	6.39550E-001
Cement and Mortar Mixers	4.40000E-004	2.76000E-003	2.31000E-003	1.00000E-005	1.10000E-004	1.10000E-004	0.00000E+000	3.43710E-001	3.43710E-001	4.00000E-005	0.00000E+000	3.44600E-001
Concrete/Industrial Saws	4.60000E-004	3.59000E-003	3.70000E-003	1.00000E-005	2.30000E-004	2.30000E-004	0.00000E+000	5.37660E-001	5.37660E-001	4.00000E-005	0.00000E+000	5.38600E-001
Cranes	1.22700E-002	1.46170E-001	5.61700E-002	1.40000E-004	6.16000E-003	5.66000E-003	0.00000E+000	1.28816E+001	1.28816E+001	4.10000E-003	0.00000E+000	1.29841E+001
Forklifts	1.16900E-002	1.04570E-001	8.92900E-002	1.10000E-004	8.03000E-003	7.38000E-003	0.00000E+000	1.02375E+001	1.02375E+001	3.26000E-003	0.00000E+000	1.03189E+001
Graders	2.40000E-004	3.29000E-003	9.20000E-004	0.00000E+000	1.10000E-004	1.00000E-004	0.00000E+000	2.98290E-001	2.98290E-001	9.00000E-005	0.00000E+000	3.00650E-001
Pavers	5.70000E-004	6.15000E-003	6.34000E-003	1.00000E-005	3.00000E-004	2.70000E-004	0.00000E+000	9.03470E-001	9.03470E-001	2.90000E-004	0.00000E+000	9.10780E-001
Rollers	4.60000E-004	4.55000E-003	4.14000E-003	1.00000E-005	2.90000E-004	2.70000E-004	0.00000E+000	5.04190E-001	5.04190E-001	1.60000E-004	0.00000E+000	5.08260E-001
Rubber Tired Dozers	1.40000E-004	1.51000E-003	5.40000E-004	0.00000E+000	7.00000E-005	7.00000E-005	0.00000E+000	9.58700E-002	9.58700E-002	3.00000E-005	0.00000E+000	9.66300E-002
Tractors/Loaders/Balckhoes	2.36000E-002	2.36980E-001	2.39260E-001	3.20000E-004	1.56100E-002	1.43600E-002	0.00000E+000	2.88948E+001	2.88948E+001	9.20000E-003	0.00000E+000	2.91247E+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	0.00000E+000
Cement and Mortar Mixers	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	0.00000E+000
Concrete/Industrial Saws	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	0.00000E+000
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.55260E-006	1.55260E-006	0.00000E+000	0.00000E+000	7.70175E-007
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.76804E-007	9.76804E-007	0.00000E+000	0.00000E+000	9.69095E-007
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	0.00000E+000
Pavers	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	0.00000E+000
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	0.00000E+000
Rubber Tired Dozers	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	0.00000E+000
Tractors/Loaders/Balckhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.38433E-006	1.38433E-006	0.00000E+000	0.00000E+000	1.37340E-006

**Fugitive Dust Mitigation**

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

Yes	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	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	0.01	0.00	0.01	0.00	0.08	0.08
Grading	Fugitive Dust	0.00	0.00	0.00	0.00	0.61	0.61
Grading	Roads	0.00	0.00	0.00	0.00	0.11	0.00
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	0.08	0.08
Site Preparation	Fugitive Dust	0.00	0.00	0.00	0.00	0.63	0.67
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

### 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	48.11	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.18	0.45		
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	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
Yes	Use Low VOC Paint (Residential Interior)	50.00
Yes	Use Low VOC Paint (Residential Exterior)	50.00
Yes	Use Low VOC Paint (Non-residential Interior)	50.00
Yes	Use Low VOC Paint (Non-residential Exterior)	50.00
Yes	Use Low VOC Paint (Parking)	100.00
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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