

Bonanni Fountain Valley - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**Bonanni Fountain Valley
Orange County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	15.00	Dwelling Unit	1.41	27,000.00	43

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - used actual lot size
- Construction Phase -
- Demolition - 2,000 sf demo
- Vehicle Trips - trip rate per traffic report
- Construction Off-road Equipment Mitigation -
- Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblLandUse	LotAcreage	4.87	1.41
tblVehicleTrips	ST_TR	9.54	9.44
tblVehicleTrips	SU_TR	8.55	9.44

Bonanni Fountain Valley - Orange County, Summer

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Bonanni Fountain Valley - Orange County, Summer

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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	4.5486	0.3255	8.8653	0.0195		1.1527	1.1527		1.1527	1.1527	140.5038	272.2283	412.7321	0.4212	9.5400e-003	426.1026
Energy	0.0106	0.0905	0.0385	5.8000e-004		7.3200e-003	7.3200e-003		7.3200e-003	7.3200e-003		115.5411	115.5411	2.2100e-003	2.1200e-003	116.2277
Mobile	0.3838	0.3899	3.8875	9.3200e-003	1.0196	6.2100e-003	1.0258	0.2718	5.7700e-003	0.2775		949.2931	949.2931	0.0546	0.0369	961.6569
Total	4.9430	0.8059	12.7913	0.0294	1.0196	1.1662	2.1858	0.2718	1.1658	1.4375	140.5038	1,337.0625	1,477.5662	0.4780	0.0486	1,503.9872

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	0.6443	0.2382	1.3323	1.4900e-003		0.0250	0.0250		0.0250	0.0250	0.0000	288.1106	288.1106	7.6200e-003	5.2400e-003	289.8629
Energy	0.0106	0.0905	0.0385	5.8000e-004		7.3200e-003	7.3200e-003		7.3200e-003	7.3200e-003		115.5411	115.5411	2.2100e-003	2.1200e-003	116.2277
Mobile	0.3838	0.3899	3.8875	9.3200e-003	1.0196	6.2100e-003	1.0258	0.2718	5.7700e-003	0.2775		949.2931	949.2931	0.0546	0.0369	961.6569
Total	1.0386	0.7186	5.2583	0.0114	1.0196	0.0385	1.0581	0.2718	0.0381	0.3098	0.0000	1,352.9448	1,352.9448	0.0645	0.0443	1,367.7475

Bonanni Fountain Valley - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	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	78.99	10.83	58.89	61.30	0.00	96.70	51.59	0.00	96.74	78.45	100.00	-1.19	8.43	86.52	8.85	9.06

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2024	1/26/2024	5	20	
2	Grading	Grading	1/31/2024	2/5/2024	5	4	
3	Building Construction	Building Construction	2/6/2024	11/11/2024	5	200	
4	Paving	Paving	11/12/2024	11/25/2024	5	10	
5	Architectural Coating	Architectural Coating	11/26/2024	12/9/2024	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0

Residential Indoor: 54,675; Residential Outdoor: 18,225; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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	1	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74

Bonanni Fountain Valley - Orange County, Summer

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Grading	Graders	1	8.00	187	0.41
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	1.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	5.00	2.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	9.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Bonanni Fountain Valley - Orange County, Summer

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3.2 Demolition - 2024

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					0.0984	0.0000	0.0984	0.0149	0.0000	0.0149			0.0000			0.0000
Off-Road	1.4397	13.8867	13.4879	0.0241		0.6311	0.6311		0.5895	0.5895		2,324.9459	2,324.9459	0.5884		2,339.6562
Total	1.4397	13.8867	13.4879	0.0241	0.0984	0.6311	0.7295	0.0149	0.5895	0.6044		2,324.9459	2,324.9459	0.5884		2,339.6562

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	9.3000e-004	0.0532	0.0188	2.5000e-004	7.8500e-003	3.6000e-004	8.2100e-003	2.1500e-003	3.4000e-004	2.4900e-003		28.3854	28.3854	2.9400e-003	4.5600e-003	29.8167
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
Worker	0.0344	0.0210	0.3694	1.1900e-003	0.1453	7.0000e-004	0.1460	0.0385	6.5000e-004	0.0392		120.0010	120.0010	2.4700e-003	2.5000e-003	120.8090
Total	0.0353	0.0743	0.3882	1.4400e-003	0.1532	1.0600e-003	0.1542	0.0407	9.9000e-004	0.0417		148.3864	148.3864	5.4100e-003	7.0600e-003	150.6257

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3.2 Demolition - 2024

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					0.0384	0.0000	0.0384	5.8100e-003	0.0000	5.8100e-003			0.0000			0.0000
Off-Road	1.4397	13.8867	13.4879	0.0241		0.6311	0.6311		0.5895	0.5895	0.0000	2,324.9459	2,324.9459	0.5884		2,339.6562
Total	1.4397	13.8867	13.4879	0.0241	0.0384	0.6311	0.6695	5.8100e-003	0.5895	0.5953	0.0000	2,324.9459	2,324.9459	0.5884		2,339.6562

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	9.3000e-004	0.0532	0.0188	2.5000e-004	7.8500e-003	3.6000e-004	8.2100e-003	2.1500e-003	3.4000e-004	2.4900e-003		28.3854	28.3854	2.9400e-003	4.5600e-003	29.8167
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
Worker	0.0344	0.0210	0.3694	1.1900e-003	0.1453	7.0000e-004	0.1460	0.0385	6.5000e-004	0.0392		120.0010	120.0010	2.4700e-003	2.5000e-003	120.8090
Total	0.0353	0.0743	0.3882	1.4400e-003	0.1532	1.0600e-003	0.1542	0.0407	9.9000e-004	0.0417		148.3864	148.3864	5.4100e-003	7.0600e-003	150.6257

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3.3 Grading - 2024

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					7.0826	0.0000	7.0826	3.4247	0.0000	3.4247			0.0000			0.0000
Off-Road	1.3015	13.8178	8.6998	0.0206		0.5722	0.5722		0.5265	0.5265		1,995.5803	1,995.5803	0.6454		2,011.7155
Total	1.3015	13.8178	8.6998	0.0206	7.0826	0.5722	7.6548	3.4247	0.5265	3.9512		1,995.5803	1,995.5803	0.6454		2,011.7155

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	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
Worker	0.0265	0.0162	0.2842	9.1000e-004	0.1118	5.4000e-004	0.1123	0.0296	5.0000e-004	0.0301		92.3085	92.3085	1.9000e-003	1.9300e-003	92.9300
Total	0.0265	0.0162	0.2842	9.1000e-004	0.1118	5.4000e-004	0.1123	0.0296	5.0000e-004	0.0301		92.3085	92.3085	1.9000e-003	1.9300e-003	92.9300

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3.3 Grading - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.7622	0.0000	2.7622	1.3357	0.0000	1.3357			0.0000			0.0000
Off-Road	1.3015	13.8178	8.6998	0.0206		0.5722	0.5722		0.5265	0.5265	0.0000	1,995.580 3	1,995.580 3	0.6454		2,011.715 5
Total	1.3015	13.8178	8.6998	0.0206	2.7622	0.5722	3.3345	1.3357	0.5265	1.8621	0.0000	1,995.580 3	1,995.580 3	0.6454		2,011.715 5

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	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
Worker	0.0265	0.0162	0.2842	9.1000e-004	0.1118	5.4000e-004	0.1123	0.0296	5.0000e-004	0.0301		92.3085	92.3085	1.9000e-003	1.9300e-003	92.9300
Total	0.0265	0.0162	0.2842	9.1000e-004	0.1118	5.4000e-004	0.1123	0.0296	5.0000e-004	0.0301		92.3085	92.3085	1.9000e-003	1.9300e-003	92.9300

Bonanni Fountain Valley - Orange County, Summer

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3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348		2,001.9214	2,001.9214	0.3334		2,010.2563
Total	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348		2,001.9214	2,001.9214	0.3334		2,010.2563

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	0.0000
Vendor	1.9900e-003	0.0699	0.0288	3.5000e-004	0.0128	3.8000e-004	0.0132	3.6800e-003	3.6000e-004	4.0400e-003		38.8773	38.8773	2.3700e-003	5.6000e-003	40.6060
Worker	0.0132	8.0900e-003	0.1421	4.6000e-004	0.0559	2.7000e-004	0.0562	0.0148	2.5000e-004	0.0151		46.1543	46.1543	9.5000e-004	9.6000e-004	46.4650
Total	0.0152	0.0780	0.1709	8.1000e-004	0.0687	6.5000e-004	0.0693	0.0185	6.1000e-004	0.0191		85.0315	85.0315	3.3200e-003	6.5600e-003	87.0710

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3.4 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348	0.0000	2,001.9214	2,001.9214	0.3334		2,010.2563
Total	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348	0.0000	2,001.9214	2,001.9214	0.3334		2,010.2563

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	0.0000
Vendor	1.9900e-003	0.0699	0.0288	3.5000e-004	0.0128	3.8000e-004	0.0132	3.6800e-003	3.6000e-004	4.0400e-003		38.8773	38.8773	2.3700e-003	5.6000e-003	40.6060
Worker	0.0132	8.0900e-003	0.1421	4.6000e-004	0.0559	2.7000e-004	0.0562	0.0148	2.5000e-004	0.0151		46.1543	46.1543	9.5000e-004	9.6000e-004	46.4650
Total	0.0152	0.0780	0.1709	8.1000e-004	0.0687	6.5000e-004	0.0693	0.0185	6.1000e-004	0.0191		85.0315	85.0315	3.3200e-003	6.5600e-003	87.0710

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3.5 Paving - 2024

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	0.6180	5.8607	8.8253	0.0136		0.2810	0.2810		0.2594	0.2594		1,297.8688	1,297.8688	0.4114		1,308.1547
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6180	5.8607	8.8253	0.0136		0.2810	0.2810		0.2594	0.2594		1,297.8688	1,297.8688	0.4114		1,308.1547

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	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
Worker	0.0344	0.0210	0.3694	1.1900e-003	0.1453	7.0000e-004	0.1460	0.0385	6.5000e-004	0.0392		120.0010	120.0010	2.4700e-003	2.5000e-003	120.8090
Total	0.0344	0.0210	0.3694	1.1900e-003	0.1453	7.0000e-004	0.1460	0.0385	6.5000e-004	0.0392		120.0010	120.0010	2.4700e-003	2.5000e-003	120.8090

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3.5 Paving - 2024

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	0.6180	5.8607	8.8253	0.0136		0.2810	0.2810		0.2594	0.2594	0.0000	1,297.8688	1,297.8688	0.4114		1,308.1547
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6180	5.8607	8.8253	0.0136		0.2810	0.2810		0.2594	0.2594	0.0000	1,297.8688	1,297.8688	0.4114		1,308.1547

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	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
Worker	0.0344	0.0210	0.3694	1.1900e-003	0.1453	7.0000e-004	0.1460	0.0385	6.5000e-004	0.0392		120.0010	120.0010	2.4700e-003	2.5000e-003	120.8090
Total	0.0344	0.0210	0.3694	1.1900e-003	0.1453	7.0000e-004	0.1460	0.0385	6.5000e-004	0.0392		120.0010	120.0010	2.4700e-003	2.5000e-003	120.8090

Bonanni Fountain Valley - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Architectural Coating - 2024

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	16.8946					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	17.0753	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

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	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
Worker	2.6500e-003	1.6200e-003	0.0284	9.0000e-005	0.0112	5.0000e-005	0.0112	2.9600e-003	5.0000e-005	3.0100e-003		9.2309	9.2309	1.9000e-004	1.9000e-004	9.2930
Total	2.6500e-003	1.6200e-003	0.0284	9.0000e-005	0.0112	5.0000e-005	0.0112	2.9600e-003	5.0000e-005	3.0100e-003		9.2309	9.2309	1.9000e-004	1.9000e-004	9.2930

Bonanni Fountain Valley - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.6 Architectural Coating - 2024

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	16.8946					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	17.0753	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

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	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
Worker	2.6500e-003	1.6200e-003	0.0284	9.0000e-005	0.0112	5.0000e-005	0.0112	2.9600e-003	5.0000e-005	3.0100e-003		9.2309	9.2309	1.9000e-004	1.9000e-004	9.2930
Total	2.6500e-003	1.6200e-003	0.0284	9.0000e-005	0.0112	5.0000e-005	0.0112	2.9600e-003	5.0000e-005	3.0100e-003		9.2309	9.2309	1.9000e-004	1.9000e-004	9.2930

Bonanni Fountain Valley - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.3838	0.3899	3.8875	9.3200e-003	1.0196	6.2100e-003	1.0258	0.2718	5.7700e-003	0.2775		949.2931	949.2931	0.0546	0.0369	961.6569
Unmitigated	0.3838	0.3899	3.8875	9.3200e-003	1.0196	6.2100e-003	1.0258	0.2718	5.7700e-003	0.2775		949.2931	949.2931	0.0546	0.0369	961.6569

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	141.60	141.60	141.60	483,869	483,869
Total	141.60	141.60	141.60	483,869	483,869

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.546200	0.059546	0.185910	0.127866	0.024295	0.006605	0.014499	0.004906	0.000657	0.000381	0.024552	0.000713	0.003869

Bonanni Fountain Valley - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0106	0.0905	0.0385	5.8000e-004		7.3200e-003	7.3200e-003		7.3200e-003	7.3200e-003		115.5411	115.5411	2.2100e-003	2.1200e-003	116.2277
NaturalGas Unmitigated	0.0106	0.0905	0.0385	5.8000e-004		7.3200e-003	7.3200e-003		7.3200e-003	7.3200e-003		115.5411	115.5411	2.2100e-003	2.1200e-003	116.2277

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	982.099	0.0106	0.0905	0.0385	5.8000e-004		7.3200e-003	7.3200e-003		7.3200e-003	7.3200e-003		115.5411	115.5411	2.2100e-003	2.1200e-003	116.2277
Total		0.0106	0.0905	0.0385	5.8000e-004		7.3200e-003	7.3200e-003		7.3200e-003	7.3200e-003		115.5411	115.5411	2.2100e-003	2.1200e-003	116.2277

Bonanni Fountain Valley - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	0.982099	0.0106	0.0905	0.0385	5.8000e-004		7.3200e-003	7.3200e-003		7.3200e-003	7.3200e-003		115.5411	115.5411	2.2100e-003	2.1200e-003	116.2277
Total		0.0106	0.0905	0.0385	5.8000e-004		7.3200e-003	7.3200e-003		7.3200e-003	7.3200e-003		115.5411	115.5411	2.2100e-003	2.1200e-003	116.2277

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.6443	0.2382	1.3323	1.4900e-003		0.0250	0.0250		0.0250	0.0250	0.0000	288.1106	288.1106	7.6200e-003	5.2400e-003	289.8629
Unmitigated	4.5486	0.3255	8.8653	0.0195		1.1527	1.1527		1.1527	1.1527	140.5038	272.2283	412.7321	0.4212	9.5400e-003	426.1026

Bonanni Fountain Valley - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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	0.0463					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5346					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	3.9305	0.3112	7.6283	0.0195		1.1458	1.1458		1.1458	1.1458	140.5038	270.0000	410.5038	0.4190	9.5400e-003	423.8209
Landscaping	0.0372	0.0143	1.2370	7.0000e-005		6.8600e-003	6.8600e-003		6.8600e-003	6.8600e-003		2.2283	2.2283	2.1400e-003		2.2817
Total	4.5486	0.3255	8.8653	0.0195		1.1527	1.1527		1.1527	1.1527	140.5038	272.2283	412.7321	0.4212	9.5400e-003	426.1026

Bonanni Fountain Valley - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0463					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.5346					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0262	0.2239	0.0953	1.4300e-003		0.0181	0.0181		0.0181	0.0181	0.0000	285.8824	285.8824	5.4800e-003	5.2400e-003	287.5812
Landscaping	0.0372	0.0143	1.2370	7.0000e-005		6.8600e-003	6.8600e-003		6.8600e-003	6.8600e-003		2.2283	2.2283	2.1400e-003		2.2817
Total	0.6443	0.2382	1.3323	1.5000e-003		0.0250	0.0250		0.0250	0.0250	0.0000	288.1106	288.1106	7.6200e-003	5.2400e-003	289.8629

7.0 Water Detail

7.1 Mitigation Measures Water

Bonanni Fountain Valley - Orange County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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
