

TTM 20368-1 - Mojave Desert Air Basin, Summer

TTM 20368-1
Mojave Desert Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	65.00	Dwelling Unit	18.14	117,000.00	186

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project description indicates 65 SFR Lots on a 18.137 Ac Parcel

Construction Phase - No demolition phase

Grading - Project site is 18.137 ac

Construction Off-road Equipment Mitigation - Mitigation for cleaning access roads and maintaining equipment speed below 25MPH at all times

Architectural Coating - VOC for Coating Required at 100 g/L

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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	10
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	25
tblGrading	AcresOfGrading	75.00	18.14
tblLandUse	LotAcreage	21.10	18.14

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	103.1445	2.0046	128.1603	0.2228		17.2463	17.2463		17.2463	17.2463	1,805.1625	766.7147	2,571.8772	1.6752	0.1420	2,656.0697
Energy	0.0588	0.5021	0.2137	3.2100e-003		0.0406	0.0406		0.0406	0.0406		641.0152	641.0152	0.0123	0.0118	644.8245
Mobile	1.5352	11.7256	14.8303	0.0643	3.9163	0.0376	3.9539	1.0486	0.0353	1.0839		6,573.8762	6,573.8762	0.4590		6,585.3507
Total	104.7385	14.2322	143.2043	0.2902	3.9163	17.3245	21.2407	1.0486	17.3222	18.3707	1,805.1625	7,981.6061	9,786.7686	2.1465	0.1537	9,886.2449

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	103.1445	2.0046	128.1603	0.2228		17.2463	17.2463		17.2463	17.2463	1,805.1625	766.7147	2,571.8772	1.6752	0.1420	2,656.0697
Energy	0.0588	0.5021	0.2137	3.2100e-003		0.0406	0.0406		0.0406	0.0406		641.0152	641.0152	0.0123	0.0118	644.8245
Mobile	1.5352	11.7256	14.8303	0.0643	3.9163	0.0376	3.9539	1.0486	0.0353	1.0839		6,573.8762	6,573.8762	0.4590		6,585.3507
Total	104.7385	14.2322	143.2043	0.2902	3.9163	17.3245	21.2407	1.0486	17.3222	18.3707	1,805.1625	7,981.6061	9,786.7686	2.1465	0.1537	9,886.2449

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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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/5/2021	7/16/2021	5	10	
2	Grading	Grading	7/17/2021	8/27/2021	5	30	
3	Building Construction	Building Construction	8/28/2021	10/21/2022	5	300	
4	Paving	Paving	10/22/2022	11/18/2022	5	20	
5	Architectural Coating	Architectural Coating	11/19/2022	12/16/2022	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 18.14

Acres of Paving: 0

Residential Indoor: 236,925; Residential Outdoor: 78,975; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	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
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	23.00	7.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.6569	3,685.6569	1.1920		3,715.4573

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3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0814	0.0494	0.6044	1.4800e-003	0.1479	9.5000e-004	0.1488	0.0392	8.7000e-004	0.0401		147.2978	147.2978	4.7200e-003		147.4159
Total	0.0814	0.0494	0.6044	1.4800e-003	0.1479	9.5000e-004	0.1488	0.0392	8.7000e-004	0.0401		147.2978	147.2978	4.7200e-003		147.4159

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					6.6936	0.0000	6.6936	3.6793	0.0000	3.6793			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	6.6936	2.0445	8.7380	3.6793	1.8809	5.5602	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573

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3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0814	0.0494	0.6044	1.4800e-003	0.1350	9.5000e-004	0.1360	0.0361	8.7000e-004	0.0369		147.2978	147.2978	4.7200e-003		147.4159
Total	0.0814	0.0494	0.6044	1.4800e-003	0.1350	9.5000e-004	0.1360	0.0361	8.7000e-004	0.0369		147.2978	147.2978	4.7200e-003		147.4159

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6633	0.0000	6.6633	3.3795	0.0000	3.3795			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	6.6633	1.9853	8.6487	3.3795	1.8265	5.2060		6,007.0434	6,007.0434	1.9428		6,055.6134

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3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0904	0.0549	0.6716	1.6400e-003	0.1643	1.0500e-003	0.1654	0.0436	9.7000e-004	0.0446		163.6642	163.6642	5.2500e-003		163.7955
Total	0.0904	0.0549	0.6716	1.6400e-003	0.1643	1.0500e-003	0.1654	0.0436	9.7000e-004	0.0446		163.6642	163.6642	5.2500e-003		163.7955

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					2.4688	0.0000	2.4688	1.2521	0.0000	1.2521			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	2.4688	1.9853	4.4541	1.2521	1.8265	3.0786	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134

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3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0904	0.0549	0.6716	1.6400e-003	0.1500	1.0500e-003	0.1511	0.0401	9.7000e-004	0.0411		163.6642	163.6642	5.2500e-003		163.7955
Total	0.0904	0.0549	0.6716	1.6400e-003	0.1500	1.0500e-003	0.1511	0.0401	9.7000e-004	0.0411		163.6642	163.6642	5.2500e-003		163.7955

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

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3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0208	0.6897	0.1412	2.1300e-003	0.0475	1.0800e-003	0.0486	0.0137	1.0300e-003	0.0147		222.8710	222.8710	0.0182		223.3260
Worker	0.1040	0.0631	0.7723	1.8900e-003	0.1889	1.2100e-003	0.1902	0.0501	1.1200e-003	0.0512		188.2139	188.2139	6.0400e-003		188.3648
Total	0.1248	0.7528	0.9135	4.0200e-003	0.2364	2.2900e-003	0.2387	0.0638	2.1500e-003	0.0659		411.0848	411.0848	0.0242		411.6907

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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

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3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0208	0.6897	0.1412	2.1300e-003	0.0441	1.0800e-003	0.0452	0.0128	1.0300e-003	0.0139		222.8710	222.8710	0.0182		223.3260
Worker	0.1040	0.0631	0.7723	1.8900e-003	0.1725	1.2100e-003	0.1737	0.0461	1.1200e-003	0.0472		188.2139	188.2139	6.0400e-003		188.3648
Total	0.1248	0.7528	0.9135	4.0200e-003	0.2166	2.2900e-003	0.2189	0.0589	2.1500e-003	0.0611		411.0848	411.0848	0.0242		411.6907

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

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3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0192	0.6501	0.1277	2.1200e-003	0.0475	8.8000e-004	0.0484	0.0137	8.4000e-004	0.0145		221.2123	221.2123	0.0172		221.6425
Worker	0.0966	0.0565	0.7039	1.8200e-003	0.1889	1.1700e-003	0.1901	0.0501	1.0800e-003	0.0512		181.4194	181.4194	5.3800e-003		181.5538
Total	0.1159	0.7066	0.8316	3.9400e-003	0.2364	2.0500e-003	0.2385	0.0638	1.9200e-003	0.0657		402.6316	402.6316	0.0226		403.1964

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

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3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0192	0.6501	0.1277	2.1200e-003	0.0441	8.8000e-004	0.0450	0.0128	8.4000e-004	0.0137		221.2123	221.2123	0.0172		221.6425
Worker	0.0966	0.0565	0.7039	1.8200e-003	0.1725	1.1700e-003	0.1737	0.0461	1.0800e-003	0.0472		181.4194	181.4194	5.3800e-003		181.5538
Total	0.1159	0.7066	0.8316	3.9400e-003	0.2166	2.0500e-003	0.2187	0.0589	1.9200e-003	0.0609		402.6316	402.6316	0.0226		403.1964

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104

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3.5 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0630	0.0369	0.4591	1.1900e-003	0.1232	7.7000e-004	0.1240	0.0327	7.1000e-004	0.0334		118.3170	118.3170	3.5100e-003		118.4047
Total	0.0630	0.0369	0.4591	1.1900e-003	0.1232	7.7000e-004	0.1240	0.0327	7.1000e-004	0.0334		118.3170	118.3170	3.5100e-003		118.4047

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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104

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3.5 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0630	0.0369	0.4591	1.1900e-003	0.1125	7.7000e-004	0.1133	0.0301	7.1000e-004	0.0308		118.3170	118.3170	3.5100e-003		118.4047
Total	0.0630	0.0369	0.4591	1.1900e-003	0.1125	7.7000e-004	0.1133	0.0301	7.1000e-004	0.0308		118.3170	118.3170	3.5100e-003		118.4047

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	73.2098					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	73.4144	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

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3.6 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0210	0.0123	0.1530	4.0000e-004	0.0411	2.6000e-004	0.0413	0.0109	2.4000e-004	0.0111		39.4390	39.4390	1.1700e-003		39.4682
Total	0.0210	0.0123	0.1530	4.0000e-004	0.0411	2.6000e-004	0.0413	0.0109	2.4000e-004	0.0111		39.4390	39.4390	1.1700e-003		39.4682

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	73.2098					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	73.4144	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

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3.6 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0210	0.0123	0.1530	4.0000e-004	0.0375	2.6000e-004	0.0378	0.0100	2.4000e-004	0.0103		39.4390	39.4390	1.1700e-003		39.4682
Total	0.0210	0.0123	0.1530	4.0000e-004	0.0375	2.6000e-004	0.0378	0.0100	2.4000e-004	0.0103		39.4390	39.4390	1.1700e-003		39.4682

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

TTM 20368-1 - Mojave Desert 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	1.5352	11.7256	14.8303	0.0643	3.9163	0.0376	3.9539	1.0486	0.0353	1.0839		6,573.876 2	6,573.876 2	0.4590		6,585.350 7
Unmitigated	1.5352	11.7256	14.8303	0.0643	3.9163	0.0376	3.9539	1.0486	0.0353	1.0839		6,573.876 2	6,573.876 2	0.4590		6,585.350 7

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	618.80	644.15	560.30	1,744,016	1,744,016
Total	618.80	644.15	560.30	1,744,016	1,744,016

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	10.80	7.30	7.50	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	0.542331	0.034995	0.171339	0.106016	0.017524	0.005301	0.010354	0.098286	0.001618	0.001995	0.008295	0.000874	0.001071

5.0 Energy Detail

Historical Energy Use: N

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5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0588	0.5021	0.2137	3.2100e-003		0.0406	0.0406		0.0406	0.0406		641.0152	641.0152	0.0123	0.0118	644.8245
NaturalGas Unmitigated	0.0588	0.5021	0.2137	3.2100e-003		0.0406	0.0406		0.0406	0.0406		641.0152	641.0152	0.0123	0.0118	644.8245

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	5448.63	0.0588	0.5021	0.2137	3.2100e-003		0.0406	0.0406		0.0406	0.0406		641.0152	641.0152	0.0123	0.0118	644.8245
Total		0.0588	0.5021	0.2137	3.2100e-003		0.0406	0.0406		0.0406	0.0406		641.0152	641.0152	0.0123	0.0118	644.8245

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	5.44863	0.0588	0.5021	0.2137	3.2100e-003		0.0406	0.0406		0.0406	0.0406		641.0152	641.0152	0.0123	0.0118	644.8245
Total		0.0588	0.5021	0.2137	3.2100e-003		0.0406	0.0406		0.0406	0.0406		641.0152	641.0152	0.0123	0.0118	644.8245

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	103.1445	2.0046	128.1603	0.2228		17.2463	17.2463		17.2463	17.2463	1,805.1625	766.7147	2,571.8772	1.6752	0.1420	2,656.0697
Unmitigated	103.1445	2.0046	128.1603	0.2228		17.2463	17.2463		17.2463	17.2463	1,805.1625	766.7147	2,571.8772	1.6752	0.1420	2,656.0697

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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	lb/day										lb/day					
Architectural Coating	1.0029					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.5038					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	99.4757	1.9427	122.7919	0.2225		17.2166	17.2166		17.2166	17.2166	1,805.1625	757.0588	2,562.2213	1.6659	0.1420	2,646.1809
Landscaping	0.1622	0.0619	5.3684	2.8000e-004		0.0297	0.0297		0.0297	0.0297		9.6559	9.6559	9.3200e-003		9.8888
Total	103.1445	2.0046	128.1603	0.2227		17.2463	17.2463		17.2463	17.2463	1,805.1625	766.7147	2,571.8772	1.6752	0.1420	2,656.0697

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.0029					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.5038					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	99.4757	1.9427	122.7919	0.2225		17.2166	17.2166		17.2166	17.2166	1,805.1625	757.0588	2,562.2213	1.6659	0.1420	2,646.1809
Landscaping	0.1622	0.0619	5.3684	2.8000e-004		0.0297	0.0297		0.0297	0.0297		9.6559	9.6559	9.3200e-003		9.8888
Total	103.1445	2.0046	128.1603	0.2227		17.2463	17.2463		17.2463	17.2463	1,805.1625	766.7147	2,571.8772	1.6752	0.1420	2,656.0697

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

TTM 20368-1 - Mojave Desert Air Basin, Summer

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

TTM 20368-1 - Mojave Desert Air Basin, Winter

TTM 20368-1
Mojave Desert Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	65.00	Dwelling Unit	18.14	117,000.00	186

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project description indicates 65 SFR Lots on a 18.137 Ac Parcel

Construction Phase - No demolition phase

Grading - Project site is 18.137 ac

Construction Off-road Equipment Mitigation - Mitigation for cleaning access roads and maintaining equipment speed below 25MPH at all times

Architectural Coating - VOC for Coating Required at 100 g/L

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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	10
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	25
tblGrading	AcresOfGrading	75.00	18.14
tblLandUse	LotAcreage	21.10	18.14

2.0 Emissions Summary

TTM 20368-1 - Mojave Desert 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	103.1445	2.0046	128.1603	0.2228		17.2463	17.2463		17.2463	17.2463	1,805.1625	766.7147	2,571.8772	1.6752	0.1420	2,656.0697
Energy	0.0588	0.5021	0.2137	3.2100e-003		0.0406	0.0406		0.0406	0.0406		641.0152	641.0152	0.0123	0.0118	644.8245
Mobile	1.3016	11.5390	13.0344	0.0586	3.9163	0.0380	3.9543	1.0486	0.0357	1.0843		5,995.4071	5,995.4071	0.4898		6,007.6522
Total	104.5049	14.0457	141.4084	0.2845	3.9163	17.3249	21.2411	1.0486	17.3225	18.3711	1,805.1625	7,403.1370	9,208.2995	2.1773	0.1537	9,308.5463

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	103.1445	2.0046	128.1603	0.2228		17.2463	17.2463		17.2463	17.2463	1,805.1625	766.7147	2,571.8772	1.6752	0.1420	2,656.0697
Energy	0.0588	0.5021	0.2137	3.2100e-003		0.0406	0.0406		0.0406	0.0406		641.0152	641.0152	0.0123	0.0118	644.8245
Mobile	1.3016	11.5390	13.0344	0.0586	3.9163	0.0380	3.9543	1.0486	0.0357	1.0843		5,995.4071	5,995.4071	0.4898		6,007.6522
Total	104.5049	14.0457	141.4084	0.2845	3.9163	17.3249	21.2411	1.0486	17.3225	18.3711	1,805.1625	7,403.1370	9,208.2995	2.1773	0.1537	9,308.5463

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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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	7/5/2021	7/16/2021	5	10	
2	Grading	Grading	7/17/2021	8/27/2021	5	30	
3	Building Construction	Building Construction	8/28/2021	10/21/2022	5	300	
4	Paving	Paving	10/22/2022	11/18/2022	5	20	
5	Architectural Coating	Architectural Coating	11/19/2022	12/16/2022	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 18.14

Acres of Paving: 0

Residential Indoor: 236,925; Residential Outdoor: 78,975; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

TTM 20368-1 - Mojave Desert 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
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	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
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	23.00	7.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

TTM 20368-1 - Mojave Desert Air Basin, Winter

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	18.0663	2.0445	20.1107	9.9307	1.8809	11.8116		3,685.6569	3,685.6569	1.1920		3,715.4573

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3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0766	0.0509	0.4830	1.3000e-003	0.1479	9.5000e-004	0.1488	0.0392	8.7000e-004	0.0401		129.5229	129.5229	4.0500e-003		129.6242
Total	0.0766	0.0509	0.4830	1.3000e-003	0.1479	9.5000e-004	0.1488	0.0392	8.7000e-004	0.0401		129.5229	129.5229	4.0500e-003		129.6242

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					6.6936	0.0000	6.6936	3.6793	0.0000	3.6793			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	3.8882	40.4971	21.1543	0.0380	6.6936	2.0445	8.7380	3.6793	1.8809	5.5602	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573

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3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0766	0.0509	0.4830	1.3000e-003	0.1350	9.5000e-004	0.1360	0.0361	8.7000e-004	0.0369		129.5229	129.5229	4.0500e-003		129.6242
Total	0.0766	0.0509	0.4830	1.3000e-003	0.1350	9.5000e-004	0.1360	0.0361	8.7000e-004	0.0369		129.5229	129.5229	4.0500e-003		129.6242

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6633	0.0000	6.6633	3.3795	0.0000	3.3795			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	6.6633	1.9853	8.6487	3.3795	1.8265	5.2060		6,007.0434	6,007.0434	1.9428		6,055.6134

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3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0851	0.0566	0.5367	1.4500e-003	0.1643	1.0500e-003	0.1654	0.0436	9.7000e-004	0.0446		143.9144	143.9144	4.5000e-003		144.0269
Total	0.0851	0.0566	0.5367	1.4500e-003	0.1643	1.0500e-003	0.1654	0.0436	9.7000e-004	0.0446		143.9144	143.9144	4.5000e-003		144.0269

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					2.4688	0.0000	2.4688	1.2521	0.0000	1.2521			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	4.1912	46.3998	30.8785	0.0620	2.4688	1.9853	4.4541	1.2521	1.8265	3.0786	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134

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3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0851	0.0566	0.5367	1.4500e-003	0.1500	1.0500e-003	0.1511	0.0401	9.7000e-004	0.0411		143.9144	143.9144	4.5000e-003		144.0269
Total	0.0851	0.0566	0.5367	1.4500e-003	0.1500	1.0500e-003	0.1511	0.0401	9.7000e-004	0.0411		143.9144	143.9144	4.5000e-003		144.0269

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.3639	2,553.3639	0.6160		2,568.7643

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3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0222	0.6776	0.1683	2.0300e-003	0.0475	1.1100e-003	0.0486	0.0137	1.0600e-003	0.0147		212.3476	212.3476	0.0206		212.8617
Worker	0.0978	0.0650	0.6172	1.6600e-003	0.1889	1.2100e-003	0.1902	0.0501	1.1200e-003	0.0512		165.5015	165.5015	5.1800e-003		165.6310
Total	0.1200	0.7426	0.7855	3.6900e-003	0.2364	2.3200e-003	0.2387	0.0638	2.1800e-003	0.0660		377.8492	377.8492	0.0257		378.4927

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	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

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3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0222	0.6776	0.1683	2.0300e-003	0.0441	1.1100e-003	0.0452	0.0128	1.0600e-003	0.0139		212.3476	212.3476	0.0206		212.8617
Worker	0.0978	0.0650	0.6172	1.6600e-003	0.1725	1.2100e-003	0.1737	0.0461	1.1200e-003	0.0472		165.5015	165.5015	5.1800e-003		165.6310
Total	0.1200	0.7426	0.7855	3.6900e-003	0.2166	2.3200e-003	0.2189	0.0589	2.1800e-003	0.0611		377.8492	377.8492	0.0257		378.4927

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

TTM 20368-1 - Mojave Desert Air Basin, Winter

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0206	0.6377	0.1536	2.0200e-003	0.0475	9.0000e-004	0.0484	0.0137	8.6000e-004	0.0145		210.6642	210.6642	0.0195		211.1519
Worker	0.0912	0.0582	0.5614	1.6000e-003	0.1889	1.1700e-003	0.1901	0.0501	1.0800e-003	0.0512		159.5366	159.5366	4.6200e-003		159.6522
Total	0.1117	0.6959	0.7151	3.6200e-003	0.2364	2.0700e-003	0.2385	0.0638	1.9400e-003	0.0657		370.2009	370.2009	0.0241		370.8041

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	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

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3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0206	0.6377	0.1536	2.0200e-003	0.0441	9.0000e-004	0.0450	0.0128	8.6000e-004	0.0137		210.6642	210.6642	0.0195		211.1519
Worker	0.0912	0.0582	0.5614	1.6000e-003	0.1725	1.1700e-003	0.1737	0.0461	1.0800e-003	0.0472		159.5366	159.5366	4.6200e-003		159.6522
Total	0.1117	0.6959	0.7151	3.6200e-003	0.2166	2.0700e-003	0.2187	0.0589	1.9400e-003	0.0609		370.2009	370.2009	0.0241		370.8041

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104

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3.5 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0595	0.0380	0.3662	1.0400e-003	0.1232	7.7000e-004	0.1240	0.0327	7.1000e-004	0.0334		104.0456	104.0456	3.0100e-003		104.1210
Total	0.0595	0.0380	0.3662	1.0400e-003	0.1232	7.7000e-004	0.1240	0.0327	7.1000e-004	0.0334		104.0456	104.0456	3.0100e-003		104.1210

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	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104

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3.5 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0595	0.0380	0.3662	1.0400e-003	0.1125	7.7000e-004	0.1133	0.0301	7.1000e-004	0.0308		104.0456	104.0456	3.0100e-003		104.1210
Total	0.0595	0.0380	0.3662	1.0400e-003	0.1125	7.7000e-004	0.1133	0.0301	7.1000e-004	0.0308		104.0456	104.0456	3.0100e-003		104.1210

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	73.2098					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	73.4144	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

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3.6 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0198	0.0127	0.1221	3.5000e-004	0.0411	2.6000e-004	0.0413	0.0109	2.4000e-004	0.0111		34.6819	34.6819	1.0000e-003		34.7070
Total	0.0198	0.0127	0.1221	3.5000e-004	0.0411	2.6000e-004	0.0413	0.0109	2.4000e-004	0.0111		34.6819	34.6819	1.0000e-003		34.7070

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	73.2098					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	73.4144	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

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3.6 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0198	0.0127	0.1221	3.5000e-004	0.0375	2.6000e-004	0.0378	0.0100	2.4000e-004	0.0103		34.6819	34.6819	1.0000e-003		34.7070
Total	0.0198	0.0127	0.1221	3.5000e-004	0.0375	2.6000e-004	0.0378	0.0100	2.4000e-004	0.0103		34.6819	34.6819	1.0000e-003		34.7070

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.3016	11.5390	13.0344	0.0586	3.9163	0.0380	3.9543	1.0486	0.0357	1.0843		5,995.407 1	5,995.407 1	0.4898		6,007.652 2
Unmitigated	1.3016	11.5390	13.0344	0.0586	3.9163	0.0380	3.9543	1.0486	0.0357	1.0843		5,995.407 1	5,995.407 1	0.4898		6,007.652 2

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	618.80	644.15	560.30	1,744,016	1,744,016
Total	618.80	644.15	560.30	1,744,016	1,744,016

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	10.80	7.30	7.50	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	0.542331	0.034995	0.171339	0.106016	0.017524	0.005301	0.010354	0.098286	0.001618	0.001995	0.008295	0.000874	0.001071

5.0 Energy Detail

Historical Energy Use: N

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5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0588	0.5021	0.2137	3.2100e-003		0.0406	0.0406		0.0406	0.0406		641.0152	641.0152	0.0123	0.0118	644.8245
NaturalGas Unmitigated	0.0588	0.5021	0.2137	3.2100e-003		0.0406	0.0406		0.0406	0.0406		641.0152	641.0152	0.0123	0.0118	644.8245

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	5448.63	0.0588	0.5021	0.2137	3.2100e-003		0.0406	0.0406		0.0406	0.0406		641.0152	641.0152	0.0123	0.0118	644.8245
Total		0.0588	0.5021	0.2137	3.2100e-003		0.0406	0.0406		0.0406	0.0406		641.0152	641.0152	0.0123	0.0118	644.8245

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	5.44863	0.0588	0.5021	0.2137	3.2100e-003		0.0406	0.0406		0.0406	0.0406		641.0152	641.0152	0.0123	0.0118	644.8245
Total		0.0588	0.5021	0.2137	3.2100e-003		0.0406	0.0406		0.0406	0.0406		641.0152	641.0152	0.0123	0.0118	644.8245

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	103.1445	2.0046	128.1603	0.2228		17.2463	17.2463		17.2463	17.2463	1,805.1625	766.7147	2,571.8772	1.6752	0.1420	2,656.0697
Unmitigated	103.1445	2.0046	128.1603	0.2228		17.2463	17.2463		17.2463	17.2463	1,805.1625	766.7147	2,571.8772	1.6752	0.1420	2,656.0697

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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	lb/day										lb/day					
Architectural Coating	1.0029					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.5038					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	99.4757	1.9427	122.7919	0.2225		17.2166	17.2166		17.2166	17.2166	1,805.1625	757.0588	2,562.2213	1.6659	0.1420	2,646.1809
Landscaping	0.1622	0.0619	5.3684	2.8000e-004		0.0297	0.0297		0.0297	0.0297		9.6559	9.6559	9.3200e-003		9.8888
Total	103.1445	2.0046	128.1603	0.2227		17.2463	17.2463		17.2463	17.2463	1,805.1625	766.7147	2,571.8772	1.6752	0.1420	2,656.0697

TTM 20368-1 - Mojave Desert Air Basin, Winter

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.0029					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.5038					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	99.4757	1.9427	122.7919	0.2225		17.2166	17.2166		17.2166	17.2166	1,805.1625	757.0588	2,562.2213	1.6659	0.1420	2,646.1809
Landscaping	0.1622	0.0619	5.3684	2.8000e-004		0.0297	0.0297		0.0297	0.0297		9.6559	9.6559	9.3200e-003		9.8888
Total	103.1445	2.0046	128.1603	0.2227		17.2463	17.2463		17.2463	17.2463	1,805.1625	766.7147	2,571.8772	1.6752	0.1420	2,656.0697

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

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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

TTM 20368-1 - Mojave Desert Air Basin, Annual

TTM 20368-1
Mojave Desert Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	65.00	Dwelling Unit	18.14	117,000.00	186

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Project description indicates 65 SFR Lots on a 18.137 Ac Parcel

Construction Phase - No demolition phase

Grading - Project site is 18.137 ac

Construction Off-road Equipment Mitigation - Mitigation for cleaning access roads and maintaining equipment speed below 25MPH at all times

Architectural Coating - VOC for Coating Required at 100 g/L

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Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Residential_Exterior	250.00	100.00
tblArchitecturalCoating	EF_Residential_Interior	250.00	100.00
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	10
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	25
tblGrading	AcresOfGrading	75.00	18.14
tblLandUse	LotAcreage	21.10	18.14

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	7-5-2021	10-4-2021	1.2261	1.2261
2	10-5-2021	1-4-2022	0.6606	0.6606
3	1-5-2022	4-4-2022	0.5828	0.5828
4	4-5-2022	7-4-2022	0.5897	0.5897
5	7-5-2022	9-30-2022	0.5703	0.5703
		Highest	1.2261	1.2261

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	4.7331	0.0852	5.5176	9.1500e-003		0.7086	0.7086		0.7086	0.7086	67.1423	28.9469	96.0891	0.0627	5.2800e-003	99.2310
Energy	0.0107	0.0916	0.0390	5.8000e-004		7.4100e-003	7.4100e-003		7.4100e-003	7.4100e-003	0.0000	286.6490	286.6490	9.4900e-003	3.4900e-003	287.9255
Mobile	0.2204	2.0558	2.3498	0.0105	0.6672	6.5500e-003	0.6738	0.1789	6.1500e-003	0.1851	0.0000	973.5006	973.5006	0.0739	0.0000	975.3479
Waste						0.0000	0.0000		0.0000	0.0000	15.4801	0.0000	15.4801	0.9149	0.0000	38.3513
Water						0.0000	0.0000		0.0000	0.0000	1.3436	27.0212	28.3648	0.1391	3.4900e-003	32.8824
Total	4.9642	2.2327	7.9064	0.0202	0.6672	0.7225	1.3897	0.1789	0.7221	0.9010	83.9659	1,316.1176	1,400.0836	1.2001	0.0123	1,433.7381

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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	4.7331	0.0852	5.5176	9.1500e-003		0.7086	0.7086		0.7086	0.7086	67.1423	28.9469	96.0891	0.0627	5.2800e-003	99.2310
Energy	0.0107	0.0916	0.0390	5.8000e-004		7.4100e-003	7.4100e-003		7.4100e-003	7.4100e-003	0.0000	286.6490	286.6490	9.4900e-003	3.4900e-003	287.9255
Mobile	0.2204	2.0558	2.3498	0.0105	0.6672	6.5500e-003	0.6738	0.1789	6.1500e-003	0.1851	0.0000	973.5006	973.5006	0.0739	0.0000	975.3479
Waste						0.0000	0.0000		0.0000	0.0000	15.4801	0.0000	15.4801	0.9149	0.0000	38.3513
Water						0.0000	0.0000		0.0000	0.0000	1.3436	27.0212	28.3648	0.1391	3.4900e-003	32.8824
Total	4.9642	2.2327	7.9064	0.0202	0.6672	0.7225	1.3897	0.1789	0.7221	0.9010	83.9659	1,316.1176	1,400.0836	1.2001	0.0123	1,433.7381

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

3.0 Construction Detail

Construction Phase

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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	7/5/2021	7/16/2021	5	10	
2	Grading	Grading	7/17/2021	8/27/2021	5	30	
3	Building Construction	Building Construction	8/28/2021	10/21/2022	5	300	
4	Paving	Paving	10/22/2022	11/18/2022	5	20	
5	Architectural Coating	Architectural Coating	11/19/2022	12/16/2022	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 18.14

Acres of Paving: 0

Residential Indoor: 236,925; Residential Outdoor: 78,975; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	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
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	23.00	7.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2025	0.1058	1.9000e-004		0.0102	0.0102		9.4000e-003	9.4000e-003	0.0000	16.7179	16.7179	5.4100e-003	0.0000	16.8530
Total	0.0194	0.2025	0.1058	1.9000e-004	0.0903	0.0102	0.1006	0.0497	9.4000e-003	0.0591	0.0000	16.7179	16.7179	5.4100e-003	0.0000	16.8530

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3.2 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	3.5000e-004	2.7000e-004	2.5900e-003	1.0000e-005	7.3000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.6056	0.6056	2.0000e-005	0.0000	0.6061
Total	3.5000e-004	2.7000e-004	2.5900e-003	1.0000e-005	7.3000e-004	0.0000	7.3000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.6056	0.6056	2.0000e-005	0.0000	0.6061

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0335	0.0000	0.0335	0.0184	0.0000	0.0184	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0194	0.2025	0.1058	1.9000e-004		0.0102	0.0102		9.4000e-003	9.4000e-003	0.0000	16.7178	16.7178	5.4100e-003	0.0000	16.8530
Total	0.0194	0.2025	0.1058	1.9000e-004	0.0335	0.0102	0.0437	0.0184	9.4000e-003	0.0278	0.0000	16.7178	16.7178	5.4100e-003	0.0000	16.8530

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3.2 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	3.5000e-004	2.7000e-004	2.5900e-003	1.0000e-005	6.6000e-004	0.0000	6.7000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.6056	0.6056	2.0000e-005	0.0000	0.6061
Total	3.5000e-004	2.7000e-004	2.5900e-003	1.0000e-005	6.6000e-004	0.0000	6.7000e-004	1.8000e-004	0.0000	1.8000e-004	0.0000	0.6056	0.6056	2.0000e-005	0.0000	0.6061

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1000	0.0000	0.1000	0.0507	0.0000	0.0507	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0629	0.6960	0.4632	9.3000e-004		0.0298	0.0298		0.0274	0.0274	0.0000	81.7425	81.7425	0.0264	0.0000	82.4034
Total	0.0629	0.6960	0.4632	9.3000e-004	0.1000	0.0298	0.1297	0.0507	0.0274	0.0781	0.0000	81.7425	81.7425	0.0264	0.0000	82.4034

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3.3 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.1600e-003	9.1000e-004	8.6300e-003	2.0000e-005	2.4200e-003	2.0000e-005	2.4300e-003	6.4000e-004	1.0000e-005	6.6000e-004	0.0000	2.0187	2.0187	6.0000e-005	0.0000	2.0203
Total	1.1600e-003	9.1000e-004	8.6300e-003	2.0000e-005	2.4200e-003	2.0000e-005	2.4300e-003	6.4000e-004	1.0000e-005	6.6000e-004	0.0000	2.0187	2.0187	6.0000e-005	0.0000	2.0203

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0370	0.0000	0.0370	0.0188	0.0000	0.0188	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0629	0.6960	0.4632	9.3000e-004		0.0298	0.0298		0.0274	0.0274	0.0000	81.7424	81.7424	0.0264	0.0000	82.4033
Total	0.0629	0.6960	0.4632	9.3000e-004	0.0370	0.0298	0.0668	0.0188	0.0274	0.0462	0.0000	81.7424	81.7424	0.0264	0.0000	82.4033

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3.3 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	1.1600e-003	9.1000e-004	8.6300e-003	2.0000e-005	2.2100e-003	2.0000e-005	2.2300e-003	5.9000e-004	1.0000e-005	6.1000e-004	0.0000	2.0187	2.0187	6.0000e-005	0.0000	2.0203
Total	1.1600e-003	9.1000e-004	8.6300e-003	2.0000e-005	2.2100e-003	2.0000e-005	2.2300e-003	5.9000e-004	1.0000e-005	6.1000e-004	0.0000	2.0187	2.0187	6.0000e-005	0.0000	2.0203

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0855	0.7844	0.7459	1.2100e-003		0.0431	0.0431		0.0406	0.0406	0.0000	104.2368	104.2368	0.0252	0.0000	104.8655
Total	0.0855	0.7844	0.7459	1.2100e-003		0.0431	0.0431		0.0406	0.0406	0.0000	104.2368	104.2368	0.0252	0.0000	104.8655

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3.4 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.6000e-004	0.0312	7.0300e-003	9.0000e-005	2.1000e-003	5.0000e-005	2.1500e-003	6.1000e-004	5.0000e-005	6.5000e-004	0.0000	8.9179	8.9179	7.9000e-004	0.0000	8.9375
Worker	4.0000e-003	3.1300e-003	0.0298	8.0000e-005	8.3500e-003	5.0000e-005	8.4000e-003	2.2200e-003	5.0000e-005	2.2700e-003	0.0000	6.9645	6.9645	2.2000e-004	0.0000	6.9700
Total	4.9600e-003	0.0343	0.0368	1.7000e-004	0.0105	1.0000e-004	0.0106	2.8300e-003	1.0000e-004	2.9200e-003	0.0000	15.8824	15.8824	1.0100e-003	0.0000	15.9075

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	0.0855	0.7844	0.7459	1.2100e-003		0.0431	0.0431		0.0406	0.0406	0.0000	104.2367	104.2367	0.0252	0.0000	104.8653
Total	0.0855	0.7844	0.7459	1.2100e-003		0.0431	0.0431		0.0406	0.0406	0.0000	104.2367	104.2367	0.0252	0.0000	104.8653

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3.4 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	9.6000e-004	0.0312	7.0300e-003	9.0000e-005	1.9600e-003	5.0000e-005	2.0000e-003	5.7000e-004	5.0000e-005	6.2000e-004	0.0000	8.9179	8.9179	7.9000e-004	0.0000	8.9375
Worker	4.0000e-003	3.1300e-003	0.0298	8.0000e-005	7.6200e-003	5.0000e-005	7.6800e-003	2.0400e-003	5.0000e-005	2.0900e-003	0.0000	6.9645	6.9645	2.2000e-004	0.0000	6.9700
Total	4.9600e-003	0.0343	0.0368	1.7000e-004	9.5800e-003	1.0000e-004	9.6800e-003	2.6100e-003	1.0000e-004	2.7100e-003	0.0000	15.8824	15.8824	1.0100e-003	0.0000	15.9075

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1792	1.6396	1.7182	2.8300e-003		0.0850	0.0850		0.0799	0.0799	0.0000	243.3115	243.3115	0.0583	0.0000	244.7688
Total	0.1792	1.6396	1.7182	2.8300e-003		0.0850	0.0850		0.0799	0.0799	0.0000	243.3115	243.3115	0.0583	0.0000	244.7688

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3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0700e-003	0.0685	0.0149	2.2000e-004	4.9100e-003	9.0000e-005	5.0000e-003	1.4200e-003	9.0000e-005	1.5100e-003	0.0000	20.6495	20.6495	1.7400e-003	0.0000	20.6928
Worker	8.6900e-003	6.5300e-003	0.0632	1.7000e-004	0.0195	1.2000e-004	0.0196	5.1700e-003	1.1000e-004	5.2900e-003	0.0000	15.6644	15.6644	4.6000e-004	0.0000	15.6759
Total	0.0108	0.0750	0.0780	3.9000e-004	0.0244	2.1000e-004	0.0246	6.5900e-003	2.0000e-004	6.8000e-003	0.0000	36.3139	36.3139	2.2000e-003	0.0000	36.3687

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	0.1792	1.6396	1.7182	2.8300e-003		0.0850	0.0850		0.0799	0.0799	0.0000	243.3112	243.3112	0.0583	0.0000	244.7685
Total	0.1792	1.6396	1.7182	2.8300e-003		0.0850	0.0850		0.0799	0.0799	0.0000	243.3112	243.3112	0.0583	0.0000	244.7685

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3.4 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0700e-003	0.0685	0.0149	2.2000e-004	4.5600e-003	9.0000e-005	4.6600e-003	1.3300e-003	9.0000e-005	1.4200e-003	0.0000	20.6495	20.6495	1.7400e-003	0.0000	20.6928
Worker	8.6900e-003	6.5300e-003	0.0632	1.7000e-004	0.0178	1.2000e-004	0.0179	4.7600e-003	1.1000e-004	4.8700e-003	0.0000	15.6644	15.6644	4.6000e-004	0.0000	15.6759
Total	0.0108	0.0750	0.0780	3.9000e-004	0.0224	2.1000e-004	0.0226	6.0900e-003	2.0000e-004	6.2900e-003	0.0000	36.3139	36.3139	2.2000e-003	0.0000	36.3687

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0276	20.0276	6.4800e-003	0.0000	20.1895
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0276	20.0276	6.4800e-003	0.0000	20.1895

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3.5 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	4.1000e-004	3.9200e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9730	0.9730	3.0000e-005	0.0000	0.9737
Total	5.4000e-004	4.1000e-004	3.9200e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	0.9730	0.9730	3.0000e-005	0.0000	0.9737

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	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0275	20.0275	6.4800e-003	0.0000	20.1895
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0110	0.1113	0.1458	2.3000e-004		5.6800e-003	5.6800e-003		5.2200e-003	5.2200e-003	0.0000	20.0275	20.0275	6.4800e-003	0.0000	20.1895

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3.5 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	4.1000e-004	3.9200e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	3.0000e-004	1.0000e-005	3.0000e-004	0.0000	0.9730	0.9730	3.0000e-005	0.0000	0.9737
Total	5.4000e-004	4.1000e-004	3.9200e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1100e-003	3.0000e-004	1.0000e-005	3.0000e-004	0.0000	0.9730	0.9730	3.0000e-005	0.0000	0.9737

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7321					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
Total	0.7342	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574

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3.6 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.4000e-004	1.3100e-003	0.0000	4.0000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3243	0.3243	1.0000e-005	0.0000	0.3246
Total	1.8000e-004	1.4000e-004	1.3100e-003	0.0000	4.0000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3243	0.3243	1.0000e-005	0.0000	0.3246

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	0.7321					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
Total	0.7342	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574

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3.6 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.4000e-004	1.3100e-003	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3243	0.3243	1.0000e-005	0.0000	0.3246
Total	1.8000e-004	1.4000e-004	1.3100e-003	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3243	0.3243	1.0000e-005	0.0000	0.3246

4.0 Operational Detail - Mobile

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	0.2204	2.0558	2.3498	0.0105	0.6672	6.5500e-003	0.6738	0.1789	6.1500e-003	0.1851	0.0000	973.5006	973.5006	0.0739	0.0000	975.3479
Unmitigated	0.2204	2.0558	2.3498	0.0105	0.6672	6.5500e-003	0.6738	0.1789	6.1500e-003	0.1851	0.0000	973.5006	973.5006	0.0739	0.0000	975.3479

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	618.80	644.15	560.30	1,744,016	1,744,016
Total	618.80	644.15	560.30	1,744,016	1,744,016

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	10.80	7.30	7.50	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	0.542331	0.034995	0.171339	0.106016	0.017524	0.005301	0.010354	0.098286	0.001618	0.001995	0.008295	0.000874	0.001071

5.0 Energy Detail

Historical Energy Use: N

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5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	180.5217	180.5217	7.4500e-003	1.5400e-003	181.1675
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	180.5217	180.5217	7.4500e-003	1.5400e-003	181.1675
NaturalGas Mitigated	0.0107	0.0916	0.0390	5.8000e-004		7.4100e-003	7.4100e-003		7.4100e-003	7.4100e-003	0.0000	106.1273	106.1273	2.0300e-003	1.9500e-003	106.7579
NaturalGas Unmitigated	0.0107	0.0916	0.0390	5.8000e-004		7.4100e-003	7.4100e-003		7.4100e-003	7.4100e-003	0.0000	106.1273	106.1273	2.0300e-003	1.9500e-003	106.7579

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	1.98875e+006	0.0107	0.0916	0.0390	5.8000e-004		7.4100e-003	7.4100e-003		7.4100e-003	7.4100e-003	0.0000	106.1273	106.1273	2.0300e-003	1.9500e-003	106.7579
Total		0.0107	0.0916	0.0390	5.8000e-004		7.4100e-003	7.4100e-003		7.4100e-003	7.4100e-003	0.0000	106.1273	106.1273	2.0300e-003	1.9500e-003	106.7579

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	1.98875e+006	0.0107	0.0916	0.0390	5.8000e-004		7.4100e-003	7.4100e-003		7.4100e-003	7.4100e-003	0.0000	106.1273	106.1273	2.0300e-003	1.9500e-003	106.7579
Total		0.0107	0.0916	0.0390	5.8000e-004		7.4100e-003	7.4100e-003		7.4100e-003	7.4100e-003	0.0000	106.1273	106.1273	2.0300e-003	1.9500e-003	106.7579

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	566571	180.5217	7.4500e-003	1.5400e-003	181.1675
Total		180.5217	7.4500e-003	1.5400e-003	181.1675

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	566571	180.5217	7.4500e-003	1.5400e-003	181.1675
Total		180.5217	7.4500e-003	1.5400e-003	181.1675

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.7331	0.0852	5.5176	9.1500e-003		0.7086	0.7086		0.7086	0.7086	67.1423	28.9469	96.0891	0.0627	5.2800e-003	99.2310
Unmitigated	4.7331	0.0852	5.5176	9.1500e-003		0.7086	0.7086		0.7086	0.7086	67.1423	28.9469	96.0891	0.0627	5.2800e-003	99.2310

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6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1830					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4569					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	4.0785	0.0797	5.0345	9.1200e-003		0.7059	0.7059		0.7059	0.7059	67.1423	28.1585	95.3007	0.0620	5.2800e-003	98.4236
Landscaping	0.0146	5.5700e-003	0.4832	3.0000e-005		2.6700e-003	2.6700e-003		2.6700e-003	2.6700e-003	0.0000	0.7884	0.7884	7.6000e-004	0.0000	0.8074
Total	4.7331	0.0852	5.5176	9.1500e-003		0.7086	0.7086		0.7086	0.7086	67.1423	28.9469	96.0891	0.0627	5.2800e-003	99.2310

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1830					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4569					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	4.0785	0.0797	5.0345	9.1200e-003		0.7059	0.7059		0.7059	0.7059	67.1423	28.1585	95.3007	0.0620	5.2800e-003	98.4236
Landscaping	0.0146	5.5700e-003	0.4832	3.0000e-005		2.6700e-003	2.6700e-003		2.6700e-003	2.6700e-003	0.0000	0.7884	0.7884	7.6000e-004	0.0000	0.8074
Total	4.7331	0.0852	5.5176	9.1500e-003		0.7086	0.7086		0.7086	0.7086	67.1423	28.9469	96.0891	0.0627	5.2800e-003	99.2310

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	28.3648	0.1391	3.4900e-003	32.8824
Unmitigated	28.3648	0.1391	3.4900e-003	32.8824

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	4.23501 / 2.6699	28.3648	0.1391	3.4900e-003	32.8824
Total		28.3648	0.1391	3.4900e-003	32.8824

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	4.23501 / 2.6699	28.3648	0.1391	3.4900e-003	32.8824
Total		28.3648	0.1391	3.4900e-003	32.8824

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	15.4801	0.9149	0.0000	38.3513
Unmitigated	15.4801	0.9149	0.0000	38.3513

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	76.26	15.4801	0.9149	0.0000	38.3513
Total		15.4801	0.9149	0.0000	38.3513

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	76.26	15.4801	0.9149	0.0000	38.3513
Total		15.4801	0.9149	0.0000	38.3513

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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Mojave Desert 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
Excavators	Diesel	No Change	0	2	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	4	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	9	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Scrapers	Diesel	No Change	0	2	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	2.05000E-003	1.40800E-002	1.81400E-002	3.00000E-005	8.20000E-004	8.20000E-004	0.00000E+000	2.55325E+000	2.55325E+000	1.70000E-004	0.00000E+000	2.55741E+000
Cranes	5.05300E-002	5.75370E-001	2.51930E-001	7.60000E-004	2.37100E-002	2.18200E-002	0.00000E+000	6.65355E+001	6.65355E+001	2.15200E-002	0.00000E+000	6.70735E+001
Excavators	6.88000E-003	6.46000E-002	9.81500E-002	1.60000E-004	3.13000E-003	2.88000E-003	0.00000E+000	1.36130E+001	1.36130E+001	4.40000E-003	0.00000E+000	1.37231E+001
Forklifts	5.32400E-002	4.91470E-001	5.21090E-001	6.90000E-004	3.33100E-002	3.06500E-002	0.00000E+000	6.04311E+001	6.04311E+001	1.95400E-002	0.00000E+000	6.09197E+001
Generator Sets	5.07300E-002	4.49940E-001	5.51790E-001	9.90000E-004	2.29700E-002	2.29700E-002	0.00000E+000	8.47811E+001	8.47811E+001	4.12000E-003	0.00000E+000	8.48841E+001
Graders	6.79000E-003	8.88700E-002	2.65100E-002	1.00000E-004	2.82000E-003	2.59000E-003	0.00000E+000	8.73189E+000	8.73189E+000	2.82000E-003	0.00000E+000	8.80249E+000
Pavers	4.14000E-003	4.19800E-002	5.76800E-002	9.00000E-005	1.99000E-003	1.83000E-003	0.00000E+000	8.26006E+000	8.26006E+000	2.67000E-003	0.00000E+000	8.32685E+000
Paving Equipment	3.56000E-003	3.47500E-002	5.09200E-002	8.00000E-005	1.70000E-003	1.56000E-003	0.00000E+000	7.15711E+000	7.15711E+000	2.31000E-003	0.00000E+000	7.21498E+000
Rollers	3.33000E-003	3.45200E-002	3.72100E-002	5.00000E-005	1.99000E-003	1.83000E-003	0.00000E+000	4.61038E+000	4.61038E+000	1.49000E-003	0.00000E+000	4.64766E+000
Rubber Tired Dozers	3.13900E-002	3.29140E-001	1.21130E-001	2.60000E-004	1.59700E-002	1.47000E-002	0.00000E+000	2.25168E+001	2.25168E+001	7.28000E-003	0.00000E+000	2.26989E+001
Scrapers	2.78800E-002	3.21080E-001	2.10140E-001	4.50000E-004	1.24900E-002	1.14900E-002	0.00000E+000	3.99500E+001	3.99500E+001	1.29200E-002	0.00000E+000	4.02730E+001
Tractors/Loaders/Backhoes	7.68800E-002	7.80580E-001	9.96840E-001	1.38000E-003	4.36300E-002	4.01400E-002	0.00000E+000	1.21216E+002	1.21216E+002	3.92000E-002	0.00000E+000	1.22196E+002
Welders	4.26800E-002	2.21500E-001	2.55410E-001	3.80000E-004	1.00400E-002	1.00400E-002	0.00000E+000	2.82331E+001	2.82331E+001	3.47000E-003	0.00000E+000	2.83198E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Mitigated tons/yr						Mitigated mt/yr					
Air Compressors	2.05000E-003	1.40800E-002	1.81400E-002	3.00000E-005	8.20000E-004	8.20000E-004	0.00000E+000	2.55325E+000	2.55325E+000	1.70000E-004	0.00000E+000	2.55741E+000
Cranes	5.05300E-002	5.75370E-001	2.51930E-001	7.60000E-004	2.37100E-002	2.18200E-002	0.00000E+000	6.65355E+001	6.65355E+001	2.15200E-002	0.00000E+000	6.70734E+001
Excavators	6.88000E-003	6.46000E-002	9.81500E-002	1.60000E-004	3.13000E-003	2.88000E-003	0.00000E+000	1.36130E+001	1.36130E+001	4.40000E-003	0.00000E+000	1.37231E+001
Forklifts	5.32400E-002	4.91470E-001	5.21090E-001	6.90000E-004	3.33100E-002	3.06500E-002	0.00000E+000	6.04310E+001	6.04310E+001	1.95400E-002	0.00000E+000	6.09196E+001
Generator Sets	5.07300E-002	4.49940E-001	5.51790E-001	9.90000E-004	2.29700E-002	2.29700E-002	0.00000E+000	8.47810E+001	8.47810E+001	4.12000E-003	0.00000E+000	8.48840E+001
Graders	6.79000E-003	8.88700E-002	2.65100E-002	1.00000E-004	2.82000E-003	2.59000E-003	0.00000E+000	8.73188E+000	8.73188E+000	2.82000E-003	0.00000E+000	8.80248E+000
Pavers	4.14000E-003	4.19800E-002	5.76800E-002	9.00000E-005	1.99000E-003	1.83000E-003	0.00000E+000	8.26005E+000	8.26005E+000	2.67000E-003	0.00000E+000	8.32684E+000
Paving Equipment	3.56000E-003	3.47500E-002	5.09200E-002	8.00000E-005	1.70000E-003	1.56000E-003	0.00000E+000	7.15711E+000	7.15711E+000	2.31000E-003	0.00000E+000	7.21497E+000
Rollers	3.33000E-003	3.45200E-002	3.72100E-002	5.00000E-005	1.99000E-003	1.83000E-003	0.00000E+000	4.61038E+000	4.61038E+000	1.49000E-003	0.00000E+000	4.64765E+000
Rubber Tired Dozers	3.13900E-002	3.29140E-001	1.21130E-001	2.60000E-004	1.59700E-002	1.47000E-002	0.00000E+000	2.25168E+001	2.25168E+001	7.28000E-003	0.00000E+000	2.26989E+001
Scrapers	2.78800E-002	3.21080E-001	2.10140E-001	4.50000E-004	1.24900E-002	1.14900E-002	0.00000E+000	3.99500E+001	3.99500E+001	1.29200E-002	0.00000E+000	4.02730E+001
Tractors/Loaders/Balckhoes	7.68800E-002	7.80580E-001	9.96830E-001	1.38000E-003	4.36300E-002	4.01400E-002	0.00000E+000	1.21216E+002	1.21216E+002	3.92000E-002	0.00000E+000	1.22196E+002
Welders	4.26800E-002	2.21500E-001	2.55410E-001	3.80000E-004	1.00400E-002	1.00400E-002	0.00000E+000	2.82331E+001	2.82331E+001	3.47000E-003	0.00000E+000	2.83198E+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
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20236E-006	1.20236E-006	0.00000E+000	0.00000E+000	1.19272E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.46918E-006	1.46918E-006	0.00000E+000	0.00000E+000	7.28700E-007
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15834E-006	1.15834E-006	0.00000E+000	0.00000E+000	1.31320E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17951E-006	1.17951E-006	0.00000E+000	0.00000E+000	1.17808E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14523E-006	1.14523E-006	0.00000E+000	0.00000E+000	1.13604E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21064E-006	1.21064E-006	0.00000E+000	0.00000E+000	1.20093E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.38601E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.15162E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.33234E-006	1.33234E-006	0.00000E+000	0.00000E+000	1.32165E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.25156E-006	1.25156E-006	0.00000E+000	0.00000E+000	9.93221E-007
Tractors/Loaders/Balckhoes	0.00000E+000	0.00000E+000	1.00317E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.23746E-006	1.23746E-006	0.00000E+000	0.00000E+000	1.14570E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.06258E-006	1.06258E-006	0.00000E+000	0.00000E+000	1.41244E-006

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00	
Yes	Replace Ground Cover of Area Disturbed	PM10 Reduction	5.00	PM2.5 Reduction	5.00	
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	0.08	0.09
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.03	0.01	0.03	0.01	0.08	0.08
Grading	Fugitive Dust	0.10	0.05	0.04	0.02	0.63	0.63
Grading	Roads	0.00	0.00	0.00	0.00	0.09	0.08
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.09	0.06
Site Preparation	Fugitive Dust	0.09	0.05	0.03	0.02	0.63	0.63
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.10	0.05

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	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	-0.01	0.13		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

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

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

Area Mitigation

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

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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