

Appendix A

CalEEMod

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Annual

Bell Gardens JAFP Cistern Project
South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	6.44	Acre	6.44	280,526.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2021
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics - Assumes earliest buildout date.

Land Use - Based on acreage of all three phases plus construction staging area.

Construction Phase - Based on applicant construction schedule - worst case constructed all at once.

Trips and VMT - 10 CY trucks with Irwindale destination

Demolition -

Grading -

Vehicle Trips - Eight annual roundtrips for quaterly maintenance (one staff, one Vactor each time)

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Operational Off-Road Equipment - Quarterly maintenance activities.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	NumDays	20.00	653.00
tblConstructionPhase	NumDays	230.00	653.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	20.00	30.00
tblGrading	MaterialExported	0.00	166,400.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	19.80
tblTripsAndVMT	HaulingTripNumber	20,800.00	33,280.00
tblVehicleTrips	CW_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	WD_TR	0.00	0.04

2.0 Emissions Summary

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2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.3114	3.4849	2.0602	5.4500e-003	0.9851	0.1461	1.1312	0.3746	0.1356	0.5102	0.0000	503.3989	503.3989	0.0883	0.0000	505.6066
2020	0.7471	8.5832	5.5293	0.0159	1.4418	0.3238	1.7656	0.5780	0.3012	0.8792	0.0000	1,466.5895	1,466.5895	0.2357	0.0000	1,472.4812
2021	0.6871	7.9075	5.3745	0.0157	1.4378	0.2845	1.7223	0.5761	0.2645	0.8405	0.0000	1,448.8632	1,448.8632	0.2325	0.0000	1,454.6760
2022	0.1873	1.9885	1.5764	4.2200e-003	0.6680	0.0734	0.7414	0.1824	0.0682	0.2506	0.0000	385.9852	385.9852	0.0707	0.0000	387.7520
Maximum	0.7471	8.5832	5.5293	0.0159	1.4418	0.3238	1.7656	0.5780	0.3012	0.8792	0.0000	1,466.5895	1,466.5895	0.2357	0.0000	1,472.4812

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2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2019	0.1205	2.2830	2.2083	5.4500e-003	0.6048	0.0838	0.6887	0.2097	0.0836	0.2934	0.0000	503.3986	503.3986	0.0883	0.0000	505.6063
2020	0.3347	6.4209	6.0484	0.0159	0.9075	0.2280	1.1355	0.3284	0.2275	0.5559	0.0000	1,466.5887	1,466.5887	0.2357	0.0000	1,472.4804
2021	0.3228	6.1976	5.9529	0.0157	0.9052	0.2245	1.1297	0.3274	0.2241	0.5515	0.0000	1,448.8624	1,448.8624	0.2325	0.0000	1,454.6753
2022	0.0960	1.6911	1.8117	4.2200e-003	0.4507	0.0660	0.5167	0.1200	0.0659	0.1859	0.0000	385.9850	385.9850	0.0707	0.0000	387.7517
Maximum	0.3347	6.4209	6.0484	0.0159	0.9075	0.2280	1.1355	0.3284	0.2275	0.5559	0.0000	1,466.5887	1,466.5887	0.2357	0.0000	1,472.4804

	ROG	NOx	CO	SO2	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	54.78	24.46	-10.18	0.00	36.72	27.23	35.26	42.40	21.87	36.03	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-1-2019	10-31-2019	2.1195	1.2440
2	11-1-2019	1-31-2020	2.4577	1.7194
3	2-1-2020	4-30-2020	2.2765	1.6448
4	5-1-2020	7-31-2020	2.3206	1.6748
5	8-1-2020	10-31-2020	2.3239	1.6781
6	11-1-2020	1-31-2021	2.2713	1.6671
7	2-1-2021	4-30-2021	2.0819	1.5767
8	5-1-2021	7-31-2021	2.1465	1.6243

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9	8-1-2021	10-31-2021	2.1493	1.6271
10	11-1-2021	1-31-2022	2.0713	1.6181
11	2-1-2022	4-30-2022	1.3927	1.1102
12	5-1-2022	7-31-2022	0.1565	0.1520
		Highest	2.4577	1.7194

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0220	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6000e-004	1.6000e-004	0.0000	0.0000	1.7000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	8.0000e-005	4.6000e-004	1.3100e-003	0.0000	4.2000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.2000e-004	0.0000	0.4608	0.4608	2.0000e-005	0.0000	0.4614
Offroad	1.2100e-003	0.0105	7.2100e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.6000e-004	3.6000e-004	0.0000	2.3197	2.3197	7.5000e-004	0.0000	2.3385
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0233	0.0110	8.6000e-003	3.0000e-005	4.2000e-004	3.9000e-004	8.2000e-004	1.1000e-004	3.6000e-004	4.8000e-004	0.0000	2.7807	2.7807	7.7000e-004	0.0000	2.8000

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0220	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6000e-004	1.6000e-004	0.0000	0.0000	1.7000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	8.0000e-005	4.6000e-004	1.3100e-003	0.0000	4.2000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.2000e-004	0.0000	0.4608	0.4608	2.0000e-005	0.0000	0.4614
Offroad	1.2100e-003	0.0105	7.2100e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.6000e-004	3.6000e-004	0.0000	2.3197	2.3197	7.5000e-004	0.0000	2.3385
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0233	0.0110	8.6000e-003	3.0000e-005	4.2000e-004	3.9000e-004	8.2000e-004	1.1000e-004	3.6000e-004	4.8000e-004	0.0000	2.7807	2.7807	7.7000e-004	0.0000	2.8000

	ROG	NOx	CO	SO2	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	8/1/2019	9/11/2019	5	30	
2	Grading	Grading	9/12/2019	3/14/2022	5	653	
3	System Installation	Building Construction	9/12/2019	3/14/2022	5	653	
4	Demolition	Demolition	3/15/2022	4/25/2022	5	30	
5	Paving	Paving	4/25/2022	6/3/2022	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 326.5

Acres of Paving: 6.44

Residential Indoor: 0; Residential Outdoor: 0; 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
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
System Installation	Cranes	1	7.00	231	0.29
System Installation	Forklifts	3	8.00	89	0.20
System Installation	Generator Sets	1	8.00	84	0.74
System Installation	Tractors/Loaders/Backhoes	3	7.00	97	0.37
System Installation	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	546.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	33,280.00	14.70	6.90	19.80	LD_Mix	HDT_Mix	HHDT
System Installation	9	118.00	46.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2710	0.0000	0.2710	0.1490	0.0000	0.1490	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0650	0.6836	0.3310	5.7000e-004		0.0359	0.0359		0.0330	0.0330	0.0000	51.2530	51.2530	0.0162	0.0000	51.6584
Total	0.0650	0.6836	0.3310	5.7000e-004	0.2710	0.0359	0.3069	0.1490	0.0330	0.1820	0.0000	51.2530	51.2530	0.0162	0.0000	51.6584

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3.2 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-003	1.0400e-003	0.0113	3.0000e-005	2.9600e-003	2.0000e-005	2.9900e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.7547	2.7547	9.0000e-005	0.0000	2.7568
Total	1.3000e-003	1.0400e-003	0.0113	3.0000e-005	2.9600e-003	2.0000e-005	2.9900e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.7547	2.7547	9.0000e-005	0.0000	2.7568

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					0.1220	0.0000	0.1220	0.0670	0.0000	0.0670	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0140	0.2860	0.3444	5.7000e-004		0.0142	0.0142		0.0142	0.0142	0.0000	51.2530	51.2530	0.0162	0.0000	51.6584
Total	0.0140	0.2860	0.3444	5.7000e-004	0.1220	0.0142	0.1361	0.0670	0.0142	0.0812	0.0000	51.2530	51.2530	0.0162	0.0000	51.6584

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3.2 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-003	1.0400e-003	0.0113	3.0000e-005	2.9600e-003	2.0000e-005	2.9900e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.7547	2.7547	9.0000e-005	0.0000	2.7568
Total	1.3000e-003	1.0400e-003	0.0113	3.0000e-005	2.9600e-003	2.0000e-005	2.9900e-003	7.9000e-004	2.0000e-005	8.1000e-004	0.0000	2.7547	2.7547	9.0000e-005	0.0000	2.7568

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4204	0.0000	0.4204	0.1509	0.0000	0.1509	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1019	1.1198	0.6436	1.1700e-003		0.0552	0.0552		0.0508	0.0508	0.0000	105.2369	105.2369	0.0333	0.0000	106.0693
Total	0.1019	1.1198	0.6436	1.1700e-003	0.4204	0.0552	0.4756	0.1509	0.0508	0.2017	0.0000	105.2369	105.2369	0.0333	0.0000	106.0693

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3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0174	0.6149	0.1228	1.5600e-003	0.2216	2.2400e-003	0.2239	0.0554	2.1400e-003	0.0575	0.0000	152.9504	152.9504	0.0113	0.0000	153.2321
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8500e-003	2.2800e-003	0.0247	7.0000e-005	6.5000e-003	5.0000e-005	6.5500e-003	1.7300e-003	5.0000e-005	1.7700e-003	0.0000	6.0450	6.0450	1.9000e-004	0.0000	6.0497
Total	0.0203	0.6172	0.1476	1.6300e-003	0.2281	2.2900e-003	0.2304	0.0571	2.1900e-003	0.0593	0.0000	158.9954	158.9954	0.0115	0.0000	159.2818

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					0.1892	0.0000	0.1892	0.0679	0.0000	0.0679	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0287	0.5862	0.7501	1.1700e-003		0.0298	0.0298		0.0298	0.0298	0.0000	105.2368	105.2368	0.0333	0.0000	106.0692
Total	0.0287	0.5862	0.7501	1.1700e-003	0.1892	0.0298	0.2190	0.0679	0.0298	0.0977	0.0000	105.2368	105.2368	0.0333	0.0000	106.0692

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3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0174	0.6149	0.1228	1.5600e-003	0.2216	2.2400e-003	0.2239	0.0554	2.1400e-003	0.0575	0.0000	152.9504	152.9504	0.0113	0.0000	153.2321
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8500e-003	2.2800e-003	0.0247	7.0000e-005	6.5000e-003	5.0000e-005	6.5500e-003	1.7300e-003	5.0000e-005	1.7700e-003	0.0000	6.0450	6.0450	1.9000e-004	0.0000	6.0497
Total	0.0203	0.6172	0.1476	1.6300e-003	0.2281	2.2900e-003	0.2304	0.0571	2.1900e-003	0.0593	0.0000	158.9954	158.9954	0.0115	0.0000	159.2818

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.9714	0.0000	0.9714	0.4538	0.0000	0.4538	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.3182	3.4566	2.1029	3.8800e-003		0.1668	0.1668		0.1535	0.1535	0.0000	341.3696	341.3696	0.1104	0.0000	344.1297
Total	0.3182	3.4566	2.1029	3.8800e-003	0.9714	0.1668	1.1383	0.4538	0.1535	0.6072	0.0000	341.3696	341.3696	0.1104	0.0000	344.1297

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3.3 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0533	1.9074	0.3953	5.1000e-003	0.2412	6.0000e-003	0.2472	0.0625	5.7400e-003	0.0683	0.0000	502.1374	502.1374	0.0364	0.0000	503.0485
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.7500e-003	6.7300e-003	0.0746	2.1000e-004	0.0216	1.7000e-004	0.0217	5.7300e-003	1.5000e-004	5.8800e-003	0.0000	19.4266	19.4266	5.6000e-004	0.0000	19.4406
Total	0.0621	1.9141	0.4698	5.3100e-003	0.2628	6.1700e-003	0.2690	0.0682	5.8900e-003	0.0741	0.0000	521.5640	521.5640	0.0370	0.0000	522.4891

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					0.4371	0.0000	0.4371	0.2042	0.0000	0.2042	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0952	1.9440	2.4878	3.8800e-003		0.0990	0.0990		0.0990	0.0990	0.0000	341.3692	341.3692	0.1104	0.0000	344.1293
Total	0.0952	1.9440	2.4878	3.8800e-003	0.4371	0.0990	0.5361	0.2042	0.0990	0.3032	0.0000	341.3692	341.3692	0.1104	0.0000	344.1293

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3.3 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0533	1.9074	0.3953	5.1000e-003	0.2412	6.0000e-003	0.2472	0.0625	5.7400e-003	0.0683	0.0000	502.1374	502.1374	0.0364	0.0000	503.0485
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.7500e-003	6.7300e-003	0.0746	2.1000e-004	0.0216	1.7000e-004	0.0217	5.7300e-003	1.5000e-004	5.8800e-003	0.0000	19.4266	19.4266	5.6000e-004	0.0000	19.4406
Total	0.0621	1.9141	0.4698	5.3100e-003	0.2628	6.1700e-003	0.2690	0.0682	5.8900e-003	0.0741	0.0000	521.5640	521.5640	0.0370	0.0000	522.4891

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					0.9684	0.0000	0.9684	0.4521	0.0000	0.4521	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2989	3.2281	2.0694	3.8700e-003		0.1514	0.1514		0.1393	0.1393	0.0000	340.0008	340.0008	0.1100	0.0000	342.7498
Total	0.2989	3.2281	2.0694	3.8700e-003	0.9684	0.1514	1.1198	0.4521	0.1393	0.5914	0.0000	340.0008	340.0008	0.1100	0.0000	342.7498

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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	0.0507	1.7671	0.3888	5.0200e-003	0.2411	5.3600e-003	0.2465	0.0625	5.1300e-003	0.0676	0.0000	494.7777	494.7777	0.0358	0.0000	495.6716
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.1400e-003	6.0400e-003	0.0683	2.1000e-004	0.0215	1.6000e-004	0.0216	5.7000e-003	1.5000e-004	5.8500e-003	0.0000	18.7265	18.7265	5.0000e-004	0.0000	18.7391
Total	0.0588	1.7731	0.4571	5.2300e-003	0.2626	5.5200e-003	0.2681	0.0682	5.2800e-003	0.0735	0.0000	513.5042	513.5042	0.0363	0.0000	514.4107

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					0.4358	0.0000	0.4358	0.2035	0.0000	0.2035	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0948	1.9366	2.4783	3.8700e-003		0.0986	0.0986		0.0986	0.0986	0.0000	340.0003	340.0003	0.1100	0.0000	342.7494
Total	0.0948	1.9366	2.4783	3.8700e-003	0.4358	0.0986	0.5344	0.2035	0.0986	0.3021	0.0000	340.0003	340.0003	0.1100	0.0000	342.7494

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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	0.0507	1.7671	0.3888	5.0200e-003	0.2411	5.3600e-003	0.2465	0.0625	5.1300e-003	0.0676	0.0000	494.7777	494.7777	0.0358	0.0000	495.6716
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.1400e-003	6.0400e-003	0.0683	2.1000e-004	0.0215	1.6000e-004	0.0216	5.7000e-003	1.5000e-004	5.8500e-003	0.0000	18.7265	18.7265	5.0000e-004	0.0000	18.7391
Total	0.0588	1.7731	0.4571	5.2300e-003	0.2626	5.5200e-003	0.2681	0.0682	5.2800e-003	0.0735	0.0000	513.5042	513.5042	0.0363	0.0000	514.4107

3.3 Grading - 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					
Fugitive Dust					0.3361	0.0000	0.3361	0.1045	0.0000	0.1045	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0497	0.5318	0.3895	7.6000e-004		0.0240	0.0240		0.0221	0.0221	0.0000	66.4397	66.4397	0.0215	0.0000	66.9769
Total	0.0497	0.5318	0.3895	7.6000e-004	0.3361	0.0240	0.3601	0.1045	0.0221	0.1266	0.0000	66.4397	66.4397	0.0215	0.0000	66.9769

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3.3 Grading - 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	9.4200e-003	0.3193	0.0751	9.7000e-004	0.2186	9.1000e-004	0.2195	0.0543	8.7000e-004	0.0552	0.0000	95.5233	95.5233	6.8700e-003	0.0000	95.6950
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	1.4900e-003	1.0700e-003	0.0123	4.0000e-005	4.2000e-003	3.0000e-005	4.2300e-003	1.1100e-003	3.0000e-005	1.1400e-003	0.0000	3.5281	3.5281	9.0000e-005	0.0000	3.5304
Total	0.0109	0.3204	0.0874	1.0100e-003	0.2228	9.4000e-004	0.2238	0.0554	9.0000e-004	0.0563	0.0000	99.0514	99.0514	6.9600e-003	0.0000	99.2254

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					0.1512	0.0000	0.1512	0.0470	0.0000	0.0470	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0185	0.3784	0.4843	7.6000e-004		0.0193	0.0193		0.0193	0.0193	0.0000	66.4396	66.4396	0.0215	0.0000	66.9768
Total	0.0185	0.3784	0.4843	7.6000e-004	0.1512	0.0193	0.1705	0.0470	0.0193	0.0663	0.0000	66.4396	66.4396	0.0215	0.0000	66.9768

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3.3 Grading - 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	9.4200e-003	0.3193	0.0751	9.7000e-004	0.2186	9.1000e-004	0.2195	0.0543	8.7000e-004	0.0552	0.0000	95.5233	95.5233	6.8700e-003	0.0000	95.6950
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	1.4900e-003	1.0700e-003	0.0123	4.0000e-005	4.2000e-003	3.0000e-005	4.2300e-003	1.1100e-003	3.0000e-005	1.1400e-003	0.0000	3.5281	3.5281	9.0000e-005	0.0000	3.5304
Total	0.0109	0.3204	0.0874	1.0100e-003	0.2228	9.4000e-004	0.2238	0.0554	9.0000e-004	0.0563	0.0000	99.0514	99.0514	6.9600e-003	0.0000	99.2254

3.4 System Installation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0933	0.8326	0.6780	1.0600e-003		0.0510	0.0510		0.0479	0.0479	0.0000	92.8662	92.8662	0.0226	0.0000	93.4317
Total	0.0933	0.8326	0.6780	1.0600e-003		0.0510	0.0510		0.0479	0.0479	0.0000	92.8662	92.8662	0.0226	0.0000	93.4317

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3.4 System Installation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.2100e-003	0.2128	0.0543	4.6000e-004	0.0115	1.3900e-003	0.0128	3.3000e-003	1.3300e-003	4.6400e-003	0.0000	44.7389	44.7389	3.1400e-003	0.0000	44.8174
Worker	0.0224	0.0179	0.1946	5.3000e-004	0.0511	4.1000e-004	0.0516	0.0136	3.8000e-004	0.0140	0.0000	47.5538	47.5538	1.4900e-003	0.0000	47.5911
Total	0.0297	0.2307	0.2489	9.9000e-004	0.0626	1.8000e-003	0.0644	0.0169	1.7100e-003	0.0186	0.0000	92.2927	92.2927	4.6300e-003	0.0000	92.4085

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	0.0266	0.5619	0.7060	1.0600e-003		0.0357	0.0357		0.0357	0.0357	0.0000	92.8661	92.8661	0.0226	0.0000	93.4316
Total	0.0266	0.5619	0.7060	1.0600e-003		0.0357	0.0357		0.0357	0.0357	0.0000	92.8661	92.8661	0.0226	0.0000	93.4316

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3.4 System Installation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.2100e-003	0.2128	0.0543	4.6000e-004	0.0115	1.3900e-003	0.0128	3.3000e-003	1.3300e-003	4.6400e-003	0.0000	44.7389	44.7389	3.1400e-003	0.0000	44.8174
Worker	0.0224	0.0179	0.1946	5.3000e-004	0.0511	4.1000e-004	0.0516	0.0136	3.8000e-004	0.0140	0.0000	47.5538	47.5538	1.4900e-003	0.0000	47.5911
Total	0.0297	0.2307	0.2489	9.9000e-004	0.0626	1.8000e-003	0.0644	0.0169	1.7100e-003	0.0186	0.0000	92.2927	92.2927	4.6300e-003	0.0000	92.4085

3.4 System Installation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4091	303.4091	0.0740	0.0000	305.2596
Total	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4091	303.4091	0.0740	0.0000	305.2596

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3.4 System Installation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0204	0.6462	0.1629	1.5200e-003	0.0380	3.1600e-003	0.0411	0.0110	3.0200e-003	0.0140	0.0000	147.4245	147.4245	9.8400e-003	0.0000	147.6704
Worker	0.0688	0.0530	0.5864	1.6900e-003	0.1696	1.3200e-003	0.1709	0.0450	1.2100e-003	0.0463	0.0000	152.8223	152.8223	4.4000e-003	0.0000	152.9324
Total	0.0892	0.6991	0.7494	3.2100e-003	0.2076	4.4800e-003	0.2121	0.0560	4.2300e-003	0.0602	0.0000	300.2468	300.2468	0.0142	0.0000	300.6028

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	0.0883	1.8636	2.3415	3.5300e-003		0.1184	0.1184		0.1184	0.1184	0.0000	303.4087	303.4087	0.0740	0.0000	305.2592
Total	0.0883	1.8636	2.3415	3.5300e-003		0.1184	0.1184		0.1184	0.1184	0.0000	303.4087	303.4087	0.0740	0.0000	305.2592

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3.4 System Installation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0204	0.6462	0.1629	1.5200e-003	0.0380	3.1600e-003	0.0411	0.0110	3.0200e-003	0.0140	0.0000	147.4245	147.4245	9.8400e-003	0.0000	147.6704
Worker	0.0688	0.0530	0.5864	1.6900e-003	0.1696	1.3200e-003	0.1709	0.0450	1.2100e-003	0.0463	0.0000	152.8223	152.8223	4.4000e-003	0.0000	152.9324
Total	0.0892	0.6991	0.7494	3.2100e-003	0.2076	4.4800e-003	0.2121	0.0560	4.2300e-003	0.0602	0.0000	300.2468	300.2468	0.0142	0.0000	300.6028

3.4 System Installation - 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	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2867	302.2867	0.0729	0.0000	304.1099
Total	0.2481	2.2749	2.1631	3.5100e-003		0.1251	0.1251		0.1176	0.1176	0.0000	302.2867	302.2867	0.0729	0.0000	304.1099

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3.4 System Installation - 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	0.0173	0.5839	0.1476	1.5000e-003	0.0378	1.1900e-003	0.0390	0.0109	1.1400e-003	0.0121	0.0000	145.7568	145.7568	9.4000e-003	0.0000	145.9917
Worker	0.0640	0.0475	0.5374	1.6300e-003	0.1690	1.2700e-003	0.1702	0.0449	1.1700e-003	0.0460	0.0000	147.3148	147.3148	3.9600e-003	0.0000	147.4140
Total	0.0813	0.6314	0.6850	3.1300e-003	0.2068	2.4600e-003	0.2092	0.0558	2.3100e-003	0.0581	0.0000	293.0716	293.0716	0.0134	0.0000	293.4056

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	0.0879	1.8565	2.3325	3.5100e-003		0.1179	0.1179		0.1179	0.1179	0.0000	302.2863	302.2863	0.0729	0.0000	304.1095
Total	0.0879	1.8565	2.3325	3.5100e-003		0.1179	0.1179		0.1179	0.1179	0.0000	302.2863	302.2863	0.0729	0.0000	304.1095

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3.4 System Installation - 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	0.0173	0.5839	0.1476	1.5000e-003	0.0378	1.1900e-003	0.0390	0.0109	1.1400e-003	0.0121	0.0000	145.7568	145.7568	9.4000e-003	0.0000	145.9917
Worker	0.0640	0.0475	0.5374	1.6300e-003	0.1690	1.2700e-003	0.1702	0.0449	1.1700e-003	0.0460	0.0000	147.3148	147.3148	3.9600e-003	0.0000	147.4140
Total	0.0813	0.6314	0.6850	3.1300e-003	0.2068	2.4600e-003	0.2092	0.0558	2.3100e-003	0.0581	0.0000	293.0716	293.0716	0.0134	0.0000	293.4056

3.4 System Installation - 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	0.0435	0.3982	0.4173	6.9000e-004		0.0206	0.0206		0.0194	0.0194	0.0000	59.0899	59.0899	0.0142	0.0000	59.4438
Total	0.0435	0.3982	0.4173	6.9000e-004		0.0206	0.0206		0.0194	0.0194	0.0000	59.0899	59.0899	0.0142	0.0000	59.4438

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3.4 System Installation - 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	3.1600e-003	0.1083	0.0273	2.9000e-004	7.3900e-003	2.0000e-004	7.5900e-003	2.1300e-003	1.9000e-004	2.3300e-003	0.0000	28.2296	28.2296	1.7700e-003	0.0000	28.2739
Worker	0.0117	8.3800e-003	0.0970	3.1000e-004	0.0330	2.4000e-004	0.0333	8.7700e-003	2.2000e-004	8.9900e-003	0.0000	27.7546	27.7546	7.0000e-004	0.0000	27.7721
Total	0.0149	0.1166	0.1243	6.0000e-004	0.0404	4.4000e-004	0.0408	0.0109	4.1000e-004	0.0113	0.0000	55.9842	55.9842	2.4700e-003	0.0000	56.0460

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	0.0172	0.3628	0.4558	6.9000e-004		0.0230	0.0230		0.0230	0.0230	0.0000	59.0899	59.0899	0.0142	0.0000	59.4438
Total	0.0172	0.3628	0.4558	6.9000e-004		0.0230	0.0230		0.0230	0.0230	0.0000	59.0899	59.0899	0.0142	0.0000	59.4438

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3.4 System Installation - 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	3.1600e-003	0.1083	0.0273	2.9000e-004	7.3900e-003	2.0000e-004	7.5900e-003	2.1300e-003	1.9000e-004	2.3300e-003	0.0000	28.2296	28.2296	1.7700e-003	0.0000	28.2739
Worker	0.0117	8.3800e-003	0.0970	3.1000e-004	0.0330	2.4000e-004	0.0333	8.7700e-003	2.2000e-004	8.9900e-003	0.0000	27.7546	27.7546	7.0000e-004	0.0000	27.7721
Total	0.0149	0.1166	0.1243	6.0000e-004	0.0404	4.4000e-004	0.0408	0.0109	4.1000e-004	0.0113	0.0000	55.9842	55.9842	2.4700e-003	0.0000	56.0460

3.5 Demolition - 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					
Fugitive Dust					0.0591	0.0000	0.0591	8.9400e-003	0.0000	8.9400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0396	0.3858	0.3089	5.8000e-004		0.0186	0.0186		0.0173	0.0173	0.0000	50.9853	50.9853	0.0143	0.0000	51.3434
Total	0.0396	0.3858	0.3089	5.8000e-004	0.0591	0.0186	0.0777	8.9400e-003	0.0173	0.0263	0.0000	50.9853	50.9853	0.0143	0.0000	51.3434

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3.5 Demolition - 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	1.9900e-003	0.0675	0.0159	2.1000e-004	4.6900e-003	1.9000e-004	4.8800e-003	1.2900e-003	1.8000e-004	1.4700e-003	0.0000	20.2426	20.2426	1.4500e-003	0.0000	20.2789
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.8000e-004	6.3000e-004	7.2500e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.6000e-004	2.0000e-005	6.7000e-004	0.0000	2.0754	2.0754	5.0000e-005	0.0000	2.0767
Total	2.8700e-003	0.0682	0.0232	2.3000e-004	7.1600e-003	2.1000e-004	7.3700e-003	1.9500e-003	2.0000e-004	2.1400e-003	0.0000	22.3179	22.3179	1.5000e-003	0.0000	22.3556

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					0.0266	0.0000	0.0266	4.0200e-003	0.0000	4.0200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0139	0.2747	0.3701	5.8000e-004		0.0129	0.0129		0.0129	0.0129	0.0000	50.9853	50.9853	0.0143	0.0000	51.3433
Total	0.0139	0.2747	0.3701	5.8000e-004	0.0266	0.0129	0.0395	4.0200e-003	0.0129	0.0170	0.0000	50.9853	50.9853	0.0143	0.0000	51.3433

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3.5 Demolition - 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	1.9900e-003	0.0675	0.0159	2.1000e-004	4.6900e-003	1.9000e-004	4.8800e-003	1.2900e-003	1.8000e-004	1.4700e-003	0.0000	20.2426	20.2426	1.4500e-003	0.0000	20.2789
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.8000e-004	6.3000e-004	7.2500e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.6000e-004	2.0000e-005	6.7000e-004	0.0000	2.0754	2.0754	5.0000e-005	0.0000	2.0767
Total	2.8700e-003	0.0682	0.0232	2.3000e-004	7.1600e-003	2.1000e-004	7.3700e-003	1.9500e-003	2.0000e-004	2.1400e-003	0.0000	22.3179	22.3179	1.5000e-003	0.0000	22.3556

3.6 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	0.0165	0.1669	0.2187	3.4000e-004		8.5200e-003	8.5200e-003		7.8400e-003	7.8400e-003	0.0000	30.0413	30.0413	9.7200e-003	0.0000	30.2842
Paving	8.4400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0250	0.1669	0.2187	3.4000e-004		8.5200e-003	8.5200e-003		7.8400e-003	7.8400e-003	0.0000	30.0413	30.0413	9.7200e-003	0.0000	30.2842

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3.6 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	8.8000e-004	6.3000e-004	7.2500e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.6000e-004	2.0000e-005	6.7000e-004	0.0000	2.0754	2.0754	5.0000e-005	0.0000	2.0767
Total	8.8000e-004	6.3000e-004	7.2500e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.6000e-004	2.0000e-005	6.7000e-004	0.0000	2.0754	2.0754	5.0000e-005	0.0000	2.0767

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	8.4100e-003	0.1694	0.2594	3.4000e-004		9.1400e-003	9.1400e-003		9.1400e-003	9.1400e-003	0.0000	30.0413	30.0413	9.7200e-003	0.0000	30.2842
Paving	8.4400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0169	0.1694	0.2594	3.4000e-004		9.1400e-003	9.1400e-003		9.1400e-003	9.1400e-003	0.0000	30.0413	30.0413	9.7200e-003	0.0000	30.2842

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3.6 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	8.8000e-004	6.3000e-004	7.2500e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.6000e-004	2.0000e-005	6.7000e-004	0.0000	2.0754	2.0754	5.0000e-005	0.0000	2.0767
Total	8.8000e-004	6.3000e-004	7.2500e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.6000e-004	2.0000e-005	6.7000e-004	0.0000	2.0754	2.0754	5.0000e-005	0.0000	2.0767

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	8.0000e-005	4.6000e-004	1.3100e-003	0.0000	4.2000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.2000e-004	0.0000	0.4608	0.4608	2.0000e-005	0.0000	0.4614
Unmitigated	8.0000e-005	4.6000e-004	1.3100e-003	0.0000	4.2000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.2000e-004	0.0000	0.4608	0.4608	2.0000e-005	0.0000	0.4614

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.26	0.00	0.00	1,112	1,112
Total	0.26	0.00	0.00	1,112	1,112

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
Other Asphalt Surfaces	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.551391	0.043400	0.201050	0.120272	0.016162	0.005864	0.021029	0.030512	0.002059	0.001866	0.004766	0.000706	0.000924

5.0 Energy Detail

Historical Energy Use: N

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5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas 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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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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			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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	0.0220	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6000e-004	1.6000e-004	0.0000	0.0000	1.7000e-004
Unmitigated	0.0220	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6000e-004	1.6000e-004	0.0000	0.0000	1.7000e-004

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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	3.9000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0181					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6000e-004	1.6000e-004	0.0000	0.0000	1.7000e-004
Total	0.0220	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6000e-004	1.6000e-004	0.0000	0.0000	1.7000e-004

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	3.9000e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0181					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6000e-004	1.6000e-004	0.0000	0.0000	1.7000e-004
Total	0.0220	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6000e-004	1.6000e-004	0.0000	0.0000	1.7000e-004

7.0 Water Detail

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Annual

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Annual

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Off-Highway Trucks	1	8.00	4	402	0.38	Diesel

UnMitigated/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
Equipment Type	tons/yr										MT/yr					
Off-Highway Trucks	1.2100e-003	0.0105	7.2100e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.6000e-004	3.6000e-004	0.0000	2.3197	2.3197	7.5000e-004	0.0000	2.3385
Total	1.2100e-003	0.0105	7.2100e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.6000e-004	3.6000e-004	0.0000	2.3197	2.3197	7.5000e-004	0.0000	2.3385

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
----------------	--------

11.0 Vegetation

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

Bell Gardens JAFP Cistern Project
South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	6.44	Acre	6.44	280,526.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2021
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

Project Characteristics - Assumes earliest buildout date.

Land Use - Based on acreage of all three phases plus construction staging area.

Construction Phase - Based on applicant construction schedule - worst case constructed all at once.

Trips and VMT - 10 CY trucks with Irwindale destination

Demolition -

Grading -

Vehicle Trips - Two quarterly roundtrips for maintenance (one staff, one Vector)

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Operational Off-Road Equipment - Quarterly maintenance activities.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	NumDays	20.00	653.00
tblConstructionPhase	NumDays	230.00	653.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	20.00	30.00
tblGrading	MaterialExported	0.00	166,400.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	19.80
tblTripsAndVMT	HaulingTripNumber	20,800.00	33,280.00
tblVehicleTrips	CW_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	WD_TR	0.00	4.00

2.0 Emissions Summary

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	6.2849	70.4857	43.5461	0.1219	18.2675	2.7917	20.6594	9.9840	2.5978	12.1846	0.0000	12,455.79 74	12,455.79 74	2.0190	0.0000	12,506.27 16
2020	5.7776	65.1462	42.2528	0.1209	10.2389	2.4724	12.7113	4.3367	2.2998	6.6365	0.0000	12,255.92 86	12,255.92 86	1.9920	0.0000	12,305.72 94
2021	5.3348	60.2511	41.2282	0.1198	10.2453	2.1802	12.4255	4.3382	2.0270	6.3653	0.0000	12,154.56 49	12,154.56 49	1.9727	0.0000	12,203.88 12
2022	4.7341	53.2932	39.9816	0.1187	17.1175	1.8259	18.9219	6.0250	1.6923	7.7036	0.0000	12,045.50 94	12,045.50 94	1.9568	0.0000	12,094.42 99
Maximum	6.2849	70.4857	43.5461	0.1219	18.2675	2.7917	20.6594	9.9840	2.5978	12.1846	0.0000	12,455.79 74	12,455.79 74	2.0190	0.0000	12,506.27 16

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1208	1.0000e-005	6.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4100e-003	1.4100e-003	0.0000		1.5000e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0609	0.3481	0.9864	3.8000e-003	0.3308	3.1000e-003	0.3339	0.0885	2.8900e-003	0.0914		385.9947	385.9947	0.0181		386.4472
Offroad	0.6059	5.2634	3.6044	0.0132		0.1931	0.1931		0.1776	0.1776		1,278.5230	1,278.5230	0.4135		1,288.8605
Total	0.7876	5.6115	4.5914	0.0170	0.3308	0.1962	0.5270	0.0885	0.1805	0.2690		1,664.5191	1,664.5191	0.4316	0.0000	1,675.3092

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

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	lb/day										lb/day					
Area	0.1208	1.0000e-005	6.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4100e-003	1.4100e-003	0.0000		1.5000e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0609	0.3481	0.9864	3.8000e-003	0.3308	3.1000e-003	0.3339	0.0885	2.8900e-003	0.0914		385.9947	385.9947	0.0181		386.4472
Offroad	0.6059	5.2634	3.6044	0.0132		0.1931	0.1931		0.1776	0.1776		1,278.5230	1,278.5230	0.4135		1,288.8605
Total	0.7876	5.6115	4.5914	0.0170	0.3308	0.1962	0.5270	0.0885	0.1805	0.2690		1,664.5191	1,664.5191	0.4316	0.0000	1,675.3092

	ROG	NOx	CO	SO2	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

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2019	9/11/2019	5	30	
2	Grading	Grading	9/12/2019	3/14/2022	5	653	
3	System Installation	Building Construction	9/12/2019	3/14/2022	5	653	
4	Demolition	Demolition	3/15/2022	4/25/2022	5	30	
5	Paving	Paving	4/25/2022	6/3/2022	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 326.5

Acres of Paving: 6.44

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
System Installation	Cranes	1	7.00	231	0.29
System Installation	Forklifts	3	8.00	89	0.20
System Installation	Generator Sets	1	8.00	84	0.74
System Installation	Tractors/Loaders/Backhoes	3	7.00	97	0.37
System Installation	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	546.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	33,280.00	14.70	6.90	19.80	LD_Mix	HDT_Mix	HHDT
System Installation	9	118.00	46.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

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

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

3.2 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0960	0.0672	0.7326	2.0000e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		199.2901	199.2901	6.2500e-003		199.4463
Total	0.0960	0.0672	0.7326	2.0000e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		199.2901	199.2901	6.2500e-003		199.4463

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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.9462	0.9462		0.9462	0.9462	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
Total	0.9312	19.0656	22.9600	0.0380	8.1298	0.9462	9.0760	4.4688	0.9462	5.4150	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

3.2 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0960	0.0672	0.7326	2.0000e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		199.2901	199.2901	6.2500e-003		199.4463
Total	0.0960	0.0672	0.7326	2.0000e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		199.2901	199.2901	6.2500e-003		199.4463

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5812	0.0000	6.5812	3.3719	0.0000	3.3719			0.0000			0.0000
Off-Road	2.5805	28.3480	16.2934	0.0297		1.3974	1.3974		1.2856	1.2856		2,936.8068	2,936.8068	0.9292		2,960.0361
Total	2.5805	28.3480	16.2934	0.0297	6.5812	1.3974	7.9785	3.3719	1.2856	4.6574		2,936.8068	2,936.8068	0.9292		2,960.0361

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4471	15.2755	3.2341	0.0390	5.7281	0.0573	5.7854	1.4312	0.0548	1.4859		4,226.0389	4,226.0389	0.3214		4,234.0743
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	0.0800	0.0560	0.6105	1.6700e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		166.0751	166.0751	5.2100e-003		166.2053
Total	0.5271	15.3315	3.8446	0.0407	5.8958	0.0586	5.9544	1.4756	0.0560	1.5316		4,392.1140	4,392.1140	0.3266		4,400.2796

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					2.9615	0.0000	2.9615	1.5173	0.0000	1.5173			0.0000			0.0000
Off-Road	0.7263	14.8397	18.9906	0.0297		0.7555	0.7555		0.7555	0.7555	0.0000	2,936.8068	2,936.8068	0.9292		2,960.0361
Total	0.7263	14.8397	18.9906	0.0297	2.9615	0.7555	3.7171	1.5173	0.7555	2.2729	0.0000	2,936.8068	2,936.8068	0.9292		2,960.0361

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4471	15.2755	3.2341	0.0390	5.7281	0.0573	5.7854	1.4312	0.0548	1.4859		4,226.0389	4,226.0389	0.3214		4,234.0743
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	0.0800	0.0560	0.6105	1.6700e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		166.0751	166.0751	5.2100e-003		166.2053
Total	0.5271	15.3315	3.8446	0.0407	5.8958	0.0586	5.9544	1.4756	0.0560	1.5316		4,392.1140	4,392.1140	0.3266		4,400.2796

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5812	0.0000	6.5812	3.3719	0.0000	3.3719			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716		2,872.4851	2,872.4851	0.9290		2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	6.5812	1.2734	7.8546	3.3719	1.1716	4.5434		2,872.4851	2,872.4851	0.9290		2,895.7106

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

3.3 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4130	14.2883	3.1300	0.0386	1.8768	0.0462	1.9230	0.4858	0.0442	0.5300		4,182.752 2	4,182.752 2	0.3132		4,190.583 3
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	0.0740	0.0500	0.5544	1.6200e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1800e-003	0.0456		160.9277	160.9277	4.6300e-003		161.0435
Total	0.4870	14.3383	3.6844	0.0402	2.0444	0.0475	2.0919	0.5303	0.0454	0.5757		4,343.679 9	4,343.679 9	0.3179		4,351.626 8

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					2.9615	0.0000	2.9615	1.5173	0.0000	1.5173			0.0000			0.0000
Off-Road	0.7263	14.8397	18.9906	0.0297		0.7555	0.7555		0.7555	0.7555	0.0000	2,872.485 1	2,872.485 1	0.9290		2,895.710 6
Total	0.7263	14.8397	18.9906	0.0297	2.9615	0.7555	3.7171	1.5173	0.7555	2.2729	0.0000	2,872.485 1	2,872.485 1	0.9290		2,895.710 6

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

3.3 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4130	14.2883	3.1300	0.0386	1.8768	0.0462	1.9230	0.4858	0.0442	0.5300		4,182.752 2	4,182.752 2	0.3132		4,190.583 3
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	0.0740	0.0500	0.5544	1.6200e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1800e-003	0.0456		160.9277	160.9277	4.6300e-003		161.0435
Total	0.4870	14.3383	3.6844	0.0402	2.0444	0.0475	2.0919	0.5303	0.0454	0.5757		4,343.679 9	4,343.679 9	0.3179		4,351.626 8

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					6.5812	0.0000	6.5812	3.3719	0.0000	3.3719			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.928 5	2,871.928 5	0.9288		2,895.149 5
Total	2.2903	24.7367	15.8575	0.0296	6.5812	1.1599	7.7411	3.3719	1.0671	4.4390		2,871.928 5	2,871.928 5	0.9288		2,895.149 5

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

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	0.3942	13.2887	3.0863	0.0381	1.8832	0.0414	1.9246	0.4874	0.0396	0.5270		4,137.0121	4,137.0121	0.3084		4,144.7209
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	0.0692	0.0450	0.5098	1.5600e-003	0.1677	1.2400e-003	0.1689	0.0445	1.1400e-003	0.0456		155.7227	155.7227	4.1900e-003		155.8274
Total	0.4634	13.3337	3.5961	0.0396	2.0508	0.0427	2.0935	0.5319	0.0408	0.5726		4,292.7348	4,292.7348	0.3125		4,300.5483

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					2.9615	0.0000	2.9615	1.5173	0.0000	1.5173			0.0000			0.0000
Off-Road	0.7263	14.8397	18.9906	0.0296		0.7555	0.7555		0.7555	0.7555	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495
Total	0.7263	14.8397	18.9906	0.0296	2.9615	0.7555	3.7171	1.5173	0.7555	2.2729	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

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	0.3942	13.2887	3.0863	0.0381	1.8832	0.0414	1.9246	0.4874	0.0396	0.5270		4,137.0121	4,137.0121	0.3084		4,144.7209
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	0.0692	0.0450	0.5098	1.5600e-003	0.1677	1.2400e-003	0.1689	0.0445	1.1400e-003	0.0456		155.7227	155.7227	4.1900e-003		155.8274
Total	0.4634	13.3337	3.5961	0.0396	2.0508	0.0427	2.0935	0.5319	0.0408	0.5726		4,292.7348	4,292.7348	0.3125		4,300.5483

3.3 Grading - 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					
Fugitive Dust					6.5812	0.0000	6.5812	3.3719	0.0000	3.3719			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
Total	1.9486	20.8551	15.2727	0.0297	6.5812	0.9409	7.5220	3.3719	0.8656	4.2374		2,872.0464	2,872.0464	0.9289		2,895.2684

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

3.3 Grading - 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	0.3747	12.2908	3.0466	0.0376	8.7553	0.0358	8.7912	2.1742	0.0343	2.2085		4,087.1258	4,087.1258	0.3030		4,094.7018
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	0.0651	0.0406	0.4706	1.5100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		150.1468	150.1468	3.7800e-003		150.2414
Total	0.4398	12.3314	3.5172	0.0391	8.9230	0.0370	8.9600	2.2187	0.0354	2.2541		4,237.2726	4,237.2726	0.3068		4,244.9432

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					2.9615	0.0000	2.9615	1.5173	0.0000	1.5173			0.0000			0.0000
Off-Road	0.7263	14.8397	18.9906	0.0297		0.7555	0.7555		0.7555	0.7555	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
Total	0.7263	14.8397	18.9906	0.0297	2.9615	0.7555	3.7171	1.5173	0.7555	2.2729	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

3.3 Grading - 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	0.3747	12.2908	3.0466	0.0376	8.7553	0.0358	8.7912	2.1742	0.0343	2.2085		4,087.1258	4,087.1258	0.3030		4,094.7018
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	0.0651	0.0406	0.4706	1.5100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		150.1468	150.1468	3.7800e-003		150.2414
Total	0.4398	12.3314	3.5172	0.0391	8.9230	0.0370	8.9600	2.2187	0.0354	2.2541		4,237.2726	4,237.2726	0.3068		4,244.9432

3.4 System Installation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

3.4 System Installation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1870	5.2869	1.4421	0.0115	0.2944	0.0356	0.3299	0.0847	0.0340	0.1188		1,228.8391	1,228.8391	0.0909		1,231.1108
Worker	0.6292	0.4405	4.8023	0.0131	1.3190	0.0103	1.3293	0.3498	9.5100e-003	0.3593		1,306.4575	1,306.4575	0.0410		1,307.4815
Total	0.8162	5.7275	6.2443	0.0246	1.6133	0.0459	1.6592	0.4345	0.0435	0.4781		2,535.2965	2,535.2965	0.1318		2,538.5923

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

3.4 System Installation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1870	5.2869	1.4421	0.0115	0.2944	0.0356	0.3299	0.0847	0.0340	0.1188		1,228.8391	1,228.8391	0.0909		1,231.1108
Worker	0.6292	0.4405	4.8023	0.0131	1.3190	0.0103	1.3293	0.3498	9.5100e-003	0.3593		1,306.4575	1,306.4575	0.0410		1,307.4815
Total	0.8162	5.7275	6.2443	0.0246	1.6133	0.0459	1.6592	0.4345	0.0435	0.4781		2,535.2965	2,535.2965	0.1318		2,538.5923

3.4 System Installation - 2020

Unmitigated Construction On-Site

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

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

3.4 System Installation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1597	4.8430	1.3059	0.0114	0.2943	0.0244	0.3187	0.0847	0.0233	0.1080		1,220.7360	1,220.7360	0.0858		1,222.8820
Worker	0.5823	0.3930	4.3611	0.0127	1.3190	0.0101	1.3290	0.3498	9.2700e-003	0.3591		1,265.9645	1,265.9645	0.0364		1,266.8755
Total	0.7419	5.2360	5.6669	0.0241	1.6133	0.0344	1.6477	0.4345	0.0326	0.4671		2,486.7005	2,486.7005	0.1223		2,489.7575

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345
Total	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,553.0631	2,553.0631	0.6229		2,568.6345

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

3.4 System Installation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1597	4.8430	1.3059	0.0114	0.2943	0.0244	0.3187	0.0847	0.0233	0.1080		1,220.7360	1,220.7360	0.0858		1,222.8820
Worker	0.5823	0.3930	4.3611	0.0127	1.3190	0.0101	1.3290	0.3498	9.2700e-003	0.3591		1,265.9645	1,265.9645	0.0364		1,266.8755
Total	0.7419	5.2360	5.6669	0.0241	1.6133	0.0344	1.6477	0.4345	0.0326	0.4671		2,486.7005	2,486.7005	0.1223		2,489.7575

3.4 System Installation - 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

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

3.4 System Installation - 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	0.1360	4.3949	1.1890	0.0113	0.2943	9.2800e-003	0.3036	0.0847	8.8700e-003	0.0936		1,211.5194	1,211.5194	0.0823		1,213.5770
Worker	0.5442	0.3537	4.0104	0.0123	1.3190	9.7600e-003	1.3287	0.3498	8.9900e-003	0.3588		1,225.0184	1,225.0184	0.0330		1,225.8421
Total	0.6801	4.7487	5.1995	0.0236	1.6133	0.0190	1.6323	0.4345	0.0179	0.4524		2,436.5378	2,436.5378	0.1153		2,439.4191

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

3.4 System Installation - 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	0.1360	4.3949	1.1890	0.0113	0.2943	9.2800e-003	0.3036	0.0847	8.8700e-003	0.0936		1,211.5194	1,211.5194	0.0823		1,213.5770
Worker	0.5442	0.3537	4.0104	0.0123	1.3190	9.7600e-003	1.3287	0.3498	8.9900e-003	0.3588		1,225.0184	1,225.0184	0.0330		1,225.8421
Total	0.6801	4.7487	5.1995	0.0236	1.6133	0.0190	1.6323	0.4345	0.0179	0.4524		2,436.5378	2,436.5378	0.1153		2,439.4191

3.4 System Installation - 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

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

3.4 System Installation - 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	0.1276	4.1715	1.1262	0.0112	0.2943	8.0800e-003	0.3024	0.0847	7.7300e-003	0.0925		1,200.7017	1,200.7017	0.0794		1,202.6871
Worker	0.5118	0.3195	3.7021	0.0119	1.3190	9.4800e-003	1.3284	0.3498	8.7300e-003	0.3585		1,181.1550	1,181.1550	0.0298		1,181.8990
Total	0.6395	4.4910	4.8283	0.0231	1.6133	0.0176	1.6309	0.4345	0.0165	0.4510		2,381.8567	2,381.8567	0.1092		2,384.5861

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

3.4 System Installation - 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	0.1276	4.1715	1.1262	0.0112	0.2943	8.0800e-003	0.3024	0.0847	7.7300e-003	0.0925		1,200.7017	1,200.7017	0.0794		1,202.6871
Worker	0.5118	0.3195	3.7021	0.0119	1.3190	9.4800e-003	1.3284	0.3498	8.7300e-003	0.3585		1,181.1550	1,181.1550	0.0298		1,181.8990
Total	0.6395	4.4910	4.8283	0.0231	1.6133	0.0176	1.6309	0.4345	0.0165	0.4510		2,381.8567	2,381.8567	0.1092		2,384.5861

3.5 Demolition - 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					
Fugitive Dust					3.9374	0.0000	3.9374	0.5962	0.0000	0.5962			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	2.6392	25.7194	20.5941	0.0388	3.9374	1.2427	5.1801	0.5962	1.1553	1.7514		3,746.7812	3,746.7812	1.0524		3,773.0920

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

3.5 Demolition - 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	0.1349	4.4176	1.0963	0.0135	0.3179	0.0129	0.3308	0.0871	0.0124	0.0995		1,472.5223	1,472.5223	0.1090		1,475.2468
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	0.0651	0.0406	0.4706	1.5100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		150.1468	150.1468	3.7800e-003		150.2414
Total	0.1999	4.4583	1.5669	0.0151	0.4855	0.0141	0.4997	0.1316	0.0135	0.1450		1,622.6691	1,622.6691	0.1128		1,625.4882

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					1.7718	0.0000	1.7718	0.2683	0.0000	0.2683			0.0000			0.0000
Off-Road	0.9246	18.3130	24.6739	0.0388		0.8627	0.8627		0.8627	0.8627	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	0.9246	18.3130	24.6739	0.0388	1.7718	0.8627	2.6346	0.2683	0.8627	1.1310	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

3.5 Demolition - 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	0.1349	4.4176	1.0963	0.0135	0.3179	0.0129	0.3308	0.0871	0.0124	0.0995		1,472.5223	1,472.5223	0.1090		1,475.2468
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	0.0651	0.0406	0.4706	1.5100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		150.1468	150.1468	3.7800e-003		150.2414
Total	0.1999	4.4583	1.5669	0.0151	0.4855	0.0141	0.4997	0.1316	0.0135	0.1450		1,622.6691	1,622.6691	0.1128		1,625.4882

3.6 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	0.5624					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6653	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

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

3.6 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	0.0651	0.0406	0.4706	1.5100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		150.1468	150.1468	3.7800e-003		150.2414
Total	0.0651	0.0406	0.4706	1.5100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		150.1468	150.1468	3.7800e-003		150.2414

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.5624					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1234	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

3.6 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	0.0651	0.0406	0.4706	1.5100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		150.1468	150.1468	3.7800e-003		150.2414
Total	0.0651	0.0406	0.4706	1.5100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		150.1468	150.1468	3.7800e-003		150.2414

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0609	0.3481	0.9864	3.8000e-003	0.3308	3.1000e-003	0.3339	0.0885	2.8900e-003	0.0914		385.9947	385.9947	0.0181		386.4472
Unmitigated	0.0609	0.3481	0.9864	3.8000e-003	0.3308	3.1000e-003	0.3339	0.0885	2.8900e-003	0.0914		385.9947	385.9947	0.0181		386.4472

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	25.76	0.00	0.00	111,180	111,180
Total	25.76	0.00	0.00	111,180	111,180

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
Other Asphalt Surfaces	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.551391	0.043400	0.201050	0.120272	0.016162	0.005864	0.021029	0.030512	0.002059	0.001866	0.004766	0.000706	0.000924

5.0 Energy Detail

Historical Energy Use: N

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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	0.1208	1.0000e-005	6.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4100e-003	1.4100e-003	0.0000		1.5000e-003
Unmitigated	0.1208	1.0000e-005	6.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4100e-003	1.4100e-003	0.0000		1.5000e-003

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0214					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0994					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4100e-003	1.4100e-003	0.0000		1.5000e-003
Total	0.1208	1.0000e-005	6.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4100e-003	1.4100e-003	0.0000		1.5000e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0214					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0994					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4100e-003	1.4100e-003	0.0000		1.5000e-003
Total	0.1208	1.0000e-005	6.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4100e-003	1.4100e-003	0.0000		1.5000e-003

7.0 Water Detail

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

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
Off-Highway Trucks	1	8.00	4	402	0.38	Diesel

UnMitigated/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
Equipment Type	lb/day										lb/day					
Off-Highway Trucks	0.6059	5.2634	3.6044	0.0132		0.1931	0.1931		0.1776	0.1776		1,278.5230	1,278.5230	0.4135		1,288.8605
Total	0.6059	5.2634	3.6044	0.0132		0.1931	0.1931		0.1776	0.1776		1,278.5230	1,278.5230	0.4135		1,288.8605

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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Bell Gardens JAFP Cistern Project - South Coast Air Basin, Winter

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

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

Bell Gardens JAFP Cistern Project
South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	6.44	Acre	6.44	280,526.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2021
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

Project Characteristics - Assumes earliest buildout date.

Land Use - Based on acreage of all three phases plus construction staging area.

Construction Phase - Based on applicant construction schedule - worst case constructed all at once.

Trips and VMT - 10 CY trucks with Irwindale destination

Demolition -

Grading -

Vehicle Trips - Two quarterly roundtrips for maintenance (one staff, one Vector)

Energy Use -

Construction Off-road Equipment Mitigation - SCAQMD Rule 403

Operational Off-Road Equipment - Quarterly maintenance activities.

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	NumDays	20.00	653.00
tblConstructionPhase	NumDays	230.00	653.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	20.00	30.00
tblGrading	MaterialExported	0.00	166,400.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	19.80
tblTripsAndVMT	HaulingTripNumber	20,800.00	33,280.00
tblVehicleTrips	CW_TTP	0.00	100.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	WD_TR	0.00	4.00

2.0 Emissions Summary

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2019	6.2020	70.2323	43.7282	0.1238	18.2675	2.7900	20.6594	9.9840	2.5962	12.1846	0.0000	12,659.97 49	12,659.97 49	2.0036	0.0000	12,710.06 39
2020	5.7004	64.9259	42.4297	0.1228	10.2389	2.4713	12.7102	4.3367	2.2988	6.6355	0.0000	12,457.76 70	12,457.76 70	1.9776	0.0000	12,507.20 68
2021	5.2615	60.0664	41.3913	0.1217	10.2453	2.1793	12.4246	4.3382	2.0262	6.3644	0.0000	12,352.81 61	12,352.81 61	1.9587	0.0000	12,401.78 36
2022	4.6637	53.1379	40.1313	0.1206	17.1175	1.8257	18.9211	6.0250	1.6921	7.7029	0.0000	12,240.13 17	12,240.13 17	1.9434	0.0000	12,288.71 72
Maximum	6.2020	70.2323	43.7282	0.1238	18.2675	2.7900	20.6594	9.9840	2.5962	12.1846	0.0000	12,659.97 49	12,659.97 49	2.0036	0.0000	12,710.06 39

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1208	1.0000e-005	6.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4100e-003	1.4100e-003	0.0000		1.5000e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0632	0.3367	1.0693	4.0000e-003	0.3308	3.0900e-003	0.3339	0.0885	2.8800e-003	0.0914		406.3363	406.3363	0.0184		406.7951
Offroad	0.6059	5.2634	3.6044	0.0132		0.1931	0.1931		0.1776	0.1776		1,278.5230	1,278.5230	0.4135		1,288.8605
Total	0.7899	5.6001	4.6743	0.0172	0.3308	0.1962	0.5270	0.0885	0.1805	0.2690		1,684.8607	1,684.8607	0.4319	0.0000	1,695.6571

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

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	lb/day										lb/day					
Area	0.1208	1.0000e-005	6.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4100e-003	1.4100e-003	0.0000		1.5000e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0632	0.3367	1.0693	4.0000e-003	0.3308	3.0900e-003	0.3339	0.0885	2.8800e-003	0.0914		406.3363	406.3363	0.0184		406.7951
Offroad	0.6059	5.2634	3.6044	0.0132		0.1931	0.1931		0.1776	0.1776		1,278.5230	1,278.5230	0.4135		1,288.8605
Total	0.7899	5.6001	4.6743	0.0172	0.3308	0.1962	0.5270	0.0885	0.1805	0.2690		1,684.8607	1,684.8607	0.4319	0.0000	1,695.6571

	ROG	NOx	CO	SO2	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

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	8/1/2019	9/11/2019	5	30	
2	Grading	Grading	9/12/2019	3/14/2022	5	653	
3	System Installation	Building Construction	9/12/2019	3/14/2022	5	653	
4	Demolition	Demolition	3/15/2022	4/25/2022	5	30	
5	Paving	Paving	4/25/2022	6/3/2022	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 326.5

Acres of Paving: 6.44

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
System Installation	Cranes	1	7.00	231	0.29
System Installation	Forklifts	3	8.00	89	0.20
System Installation	Generator Sets	1	8.00	84	0.74
System Installation	Tractors/Loaders/Backhoes	3	7.00	97	0.37
System Installation	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	546.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	33,280.00	14.70	6.90	19.80	LD_Mix	HDT_Mix	HHDT
System Installation	9	118.00	46.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

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

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

3.2 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0874	0.0612	0.8063	2.1300e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		212.4651	212.4651	6.6600e-003		212.6315
Total	0.0874	0.0612	0.8063	2.1300e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		212.4651	212.4651	6.6600e-003		212.6315

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					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.9462	0.9462		0.9462	0.9462	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
Total	0.9312	19.0656	22.9600	0.0380	8.1298	0.9462	9.0760	4.4688	0.9462	5.4150	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

3.2 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0874	0.0612	0.8063	2.1300e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		212.4651	212.4651	6.6600e-003		212.6315
Total	0.0874	0.0612	0.8063	2.1300e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		212.4651	212.4651	6.6600e-003		212.6315

3.3 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5812	0.0000	6.5812	3.3719	0.0000	3.3719			0.0000			0.0000
Off-Road	2.5805	28.3480	16.2934	0.0297		1.3974	1.3974		1.2856	1.2856		2,936.8068	2,936.8068	0.9292		2,960.0361
Total	2.5805	28.3480	16.2934	0.0297	6.5812	1.3974	7.9785	3.3719	1.2856	4.6574		2,936.8068	2,936.8068	0.9292		2,960.0361

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

3.3 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4354	15.0732	3.0114	0.0397	5.7281	0.0562	5.7843	1.4312	0.0538	1.4849		4,298.9513	4,298.9513	0.3089		4,306.6734
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	0.0728	0.0510	0.6719	1.7800e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		177.0542	177.0542	5.5500e-003		177.1930
Total	0.5082	15.1241	3.6833	0.0415	5.8958	0.0575	5.9533	1.4756	0.0550	1.5306		4,476.0055	4,476.0055	0.3144		4,483.8664

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					2.9615	0.0000	2.9615	1.5173	0.0000	1.5173			0.0000			0.0000
Off-Road	0.7263	14.8397	18.9906	0.0297		0.7555	0.7555		0.7555	0.7555	0.0000	2,936.8068	2,936.8068	0.9292		2,960.0361
Total	0.7263	14.8397	18.9906	0.0297	2.9615	0.7555	3.7171	1.5173	0.7555	2.2729	0.0000	2,936.8068	2,936.8068	0.9292		2,960.0361

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

3.3 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4354	15.0732	3.0114	0.0397	5.7281	0.0562	5.7843	1.4312	0.0538	1.4849		4,298.9513	4,298.9513	0.3089		4,306.6734
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	0.0728	0.0510	0.6719	1.7800e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		177.0542	177.0542	5.5500e-003		177.1930
Total	0.5082	15.1241	3.6833	0.0415	5.8958	0.0575	5.9533	1.4756	0.0550	1.5306		4,476.0055	4,476.0055	0.3144		4,483.8664

3.3 Grading - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5812	0.0000	6.5812	3.3719	0.0000	3.3719			0.0000			0.0000
Off-Road	2.4288	26.3859	16.0530	0.0297		1.2734	1.2734		1.1716	1.1716		2,872.4851	2,872.4851	0.9290		2,895.7106
Total	2.4288	26.3859	16.0530	0.0297	6.5812	1.2734	7.8546	3.3719	1.1716	4.5434		2,872.4851	2,872.4851	0.9290		2,895.7106

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

3.3 Grading - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4024	14.1059	2.9289	0.0392	1.8768	0.0455	1.9223	0.4858	0.0435	0.5294		4,256.0765	4,256.0765	0.3016		4,263.6153
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	0.0673	0.0455	0.6114	1.7200e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1800e-003	0.0456		171.5755	171.5755	4.9400e-003		171.6991
Total	0.4697	14.1513	3.5403	0.0410	2.0444	0.0468	2.0912	0.5303	0.0447	0.5750		4,427.6520	4,427.6520	0.3065		4,435.3144

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					2.9615	0.0000	2.9615	1.5173	0.0000	1.5173			0.0000			0.0000
Off-Road	0.7263	14.8397	18.9906	0.0297		0.7555	0.7555		0.7555	0.7555	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106
Total	0.7263	14.8397	18.9906	0.0297	2.9615	0.7555	3.7171	1.5173	0.7555	2.2729	0.0000	2,872.4851	2,872.4851	0.9290		2,895.7106

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

3.3 Grading - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.4024	14.1059	2.9289	0.0392	1.8768	0.0455	1.9223	0.4858	0.0435	0.5294		4,256.0765	4,256.0765	0.3016		4,263.6153
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	0.0673	0.0455	0.6114	1.7200e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1800e-003	0.0456		171.5755	171.5755	4.9400e-003		171.6991
Total	0.4697	14.1513	3.5403	0.0410	2.0444	0.0468	2.0912	0.5303	0.0447	0.5750		4,427.6520	4,427.6520	0.3065		4,435.3144

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					6.5812	0.0000	6.5812	3.3719	0.0000	3.3719			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
Total	2.2903	24.7367	15.8575	0.0296	6.5812	1.1599	7.7411	3.3719	1.0671	4.4390		2,871.9285	2,871.9285	0.9288		2,895.1495

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

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	0.3842	13.1292	2.8952	0.0388	1.8832	0.0408	1.9240	0.4874	0.0390	0.5264		4,209.9277	4,209.9277	0.2972		4,217.3566
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	0.0628	0.0410	0.5632	1.6700e-003	0.1677	1.2400e-003	0.1689	0.0445	1.1400e-003	0.0456		166.0347	166.0347	4.4800e-003		166.1466
Total	0.4470	13.1702	3.4584	0.0404	2.0508	0.0420	2.0929	0.5319	0.0402	0.5720		4,375.9625	4,375.9625	0.3016		4,383.5032

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					2.9615	0.0000	2.9615	1.5173	0.0000	1.5173			0.0000			0.0000
Off-Road	0.7263	14.8397	18.9906	0.0296		0.7555	0.7555		0.7555	0.7555	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495
Total	0.7263	14.8397	18.9906	0.0296	2.9615	0.7555	3.7171	1.5173	0.7555	2.2729	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

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	0.3842	13.1292	2.8952	0.0388	1.8832	0.0408	1.9240	0.4874	0.0390	0.5264		4,209.9277	4,209.9277	0.2972		4,217.3566
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	0.0628	0.0410	0.5632	1.6700e-003	0.1677	1.2400e-003	0.1689	0.0445	1.1400e-003	0.0456		166.0347	166.0347	4.4800e-003		166.1466
Total	0.4470	13.1702	3.4584	0.0404	2.0508	0.0420	2.0929	0.5319	0.0402	0.5720		4,375.9625	4,375.9625	0.3016		4,383.5032

3.3 Grading - 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					
Fugitive Dust					6.5812	0.0000	6.5812	3.3719	0.0000	3.3719			0.0000			0.0000
Off-Road	1.9486	20.8551	15.2727	0.0297		0.9409	0.9409		0.8656	0.8656		2,872.0464	2,872.0464	0.9289		2,895.2684
Total	1.9486	20.8551	15.2727	0.0297	6.5812	0.9409	7.5220	3.3719	0.8656	4.2374		2,872.0464	2,872.0464	0.9289		2,895.2684

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

3.3 Grading - 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	0.3652	12.1549	2.8644	0.0382	8.7553	0.0353	8.7906	2.1742	0.0338	2.2080		4,159.7887	4,159.7887	0.2924		4,167.0976
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	0.0589	0.0370	0.5208	1.6100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		160.0895	160.0895	4.0500e-003		160.1906
Total	0.4241	12.1919	3.3853	0.0399	8.9230	0.0365	8.9595	2.2187	0.0349	2.2535		4,319.8781	4,319.8781	0.2964		4,327.2882

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					2.9615	0.0000	2.9615	1.5173	0.0000	1.5173			0.0000			0.0000
Off-Road	0.7263	14.8397	18.9906	0.0297		0.7555	0.7555		0.7555	0.7555	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684
Total	0.7263	14.8397	18.9906	0.0297	2.9615	0.7555	3.7171	1.5173	0.7555	2.2729	0.0000	2,872.0464	2,872.0464	0.9289		2,895.2684

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

3.3 Grading - 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	0.3652	12.1549	2.8644	0.0382	8.7553	0.0353	8.7906	2.1742	0.0338	2.2080		4,159.7887	4,159.7887	0.2924		4,167.0976
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	0.0589	0.0370	0.5208	1.6100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		160.0895	160.0895	4.0500e-003		160.1906
Total	0.4241	12.1919	3.3853	0.0399	8.9230	0.0365	8.9595	2.2187	0.0349	2.2535		4,319.8781	4,319.8781	0.2964		4,327.2882

3.4 System Installation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.5802	2,591.5802	0.6313		2,607.3635

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

3.4 System Installation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1793	5.2804	1.3021	0.0118	0.2944	0.0350	0.3294	0.0847	0.0335	0.1182		1,262.7560	1,262.7560	0.0850		1,264.8800
Worker	0.5729	0.4009	5.2856	0.0140	1.3190	0.0103	1.3293	0.3498	9.5100e-003	0.3593		1,392.8265	1,392.8265	0.0437		1,393.9179
Total	0.7522	5.6814	6.5877	0.0258	1.6133	0.0453	1.6586	0.4345	0.0430	0.4775		2,655.5825	2,655.5825	0.1286		2,658.7979

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635
Total	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,591.5802	2,591.5802	0.6313		2,607.3635

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

3.4 System Installation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1793	5.2804	1.3021	0.0118	0.2944	0.0350	0.3294	0.0847	0.0335	0.1182		1,262.7560	1,262.7560	0.0850		1,264.8800
Worker	0.5729	0.4009	5.2856	0.0140	1.3190	0.0103	1.3293	0.3498	9.5100e-003	0.3593		1,392.8265	1,392.8265	0.0437		1,393.9179
Total	0.7522	5.6814	6.5877	0.0258	1.6133	0.0453	1.6586	0.4345	0.0430	0.4775		2,655.5825	2,655.5825	0.1286		2,658.7979

3.4 System Installation - 2020

Unmitigated Construction On-Site

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

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

3.4 System Installation - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1527	4.8448	1.1785	0.0117	0.2943	0.0240	0.3183	0.0847	0.0229	0.1077		1,254.840 0	1,254.840 0	0.0803		1,256.848 0
Worker	0.5293	0.3578	4.8094	0.0136	1.3190	0.0101	1.3290	0.3498	9.2700e-003	0.3591		1,349.726 9	1,349.726 9	0.0389		1,350.699 3
Total	0.6820	5.2026	5.9879	0.0253	1.6133	0.0340	1.6474	0.4345	0.0322	0.4667		2,604.566 9	2,604.566 9	0.1192		2,607.547 3

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5
Total	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,553.063 1	2,553.063 1	0.6229		2,568.634 5

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

3.4 System Installation - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.1527	4.8448	1.1785	0.0117	0.2943	0.0240	0.3183	0.0847	0.0229	0.1077		1,254.840 0	1,254.840 0	0.0803		1,256.848 0
Worker	0.5293	0.3578	4.8094	0.0136	1.3190	0.0101	1.3290	0.3498	9.2700e-003	0.3591		1,349.726 9	1,349.726 9	0.0389		1,350.699 3
Total	0.6820	5.2026	5.9879	0.0253	1.6133	0.0340	1.6474	0.4345	0.0322	0.4667		2,604.566 9	2,604.566 9	0.1192		2,607.547 3

3.4 System Installation - 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		2,553.363 9	2,553.363 9	0.6160		2,568.764 3
Total	1.9009	17.4321	16.5752	0.0269		0.9586	0.9586		0.9013	0.9013		2,553.363 9	2,553.363 9	0.6160		2,568.764 3

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

3.4 System Installation - 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	0.1294	4.4053	1.0697	0.0116	0.2943	8.9900e-003	0.3033	0.0847	8.6000e-003	0.0933		1,245.4212	1,245.4212	0.0770		1,247.3466
Worker	0.4938	0.3221	4.4305	0.0131	1.3190	9.7600e-003	1.3287	0.3498	8.9900e-003	0.3588		1,306.1400	1,306.1400	0.0352		1,307.0201
Total	0.6233	4.7274	5.5002	0.0248	1.6133	0.0188	1.6321	0.4345	0.0176	0.4521		2,551.5612	2,551.5612	0.1122		2,554.3667

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643
Total	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,553.3639	2,553.3639	0.6160		2,568.7643

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

3.4 System Installation - 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	0.1294	4.4053	1.0697	0.0116	0.2943	8.9900e-003	0.3033	0.0847	8.6000e-003	0.0933		1,245.4212	1,245.4212	0.0770		1,247.3466
Worker	0.4938	0.3221	4.4305	0.0131	1.3190	9.7600e-003	1.3287	0.3498	8.9900e-003	0.3588		1,306.1400	1,306.1400	0.0352		1,307.0201
Total	0.6233	4.7274	5.5002	0.0248	1.6133	0.0188	1.6321	0.4345	0.0176	0.4521		2,551.5612	2,551.5612	0.1122		2,554.3667

3.4 System Installation - 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

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

3.4 System Installation - 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	0.1215	4.1843	1.0128	0.0115	0.2943	7.8300e-003	0.3022	0.0847	7.4800e-003	0.0922		1,234.503 1	1,234.503 1	0.0744		1,236.362 3
Worker	0.4633	0.2910	4.0972	0.0126	1.3190	9.4800e-003	1.3284	0.3498	8.7300e-003	0.3585		1,259.370 5	1,259.370 5	0.0318		1,260.166 1
Total	0.5847	4.4753	5.1100	0.0242	1.6133	0.0173	1.6306	0.4345	0.0162	0.4508		2,493.873 6	2,493.873 6	0.1062		2,496.528 4

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,554.333 6	2,554.333 6	0.6120		2,569.632 2
Total	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,554.333 6	2,554.333 6	0.6120		2,569.632 2

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

3.4 System Installation - 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	0.1215	4.1843	1.0128	0.0115	0.2943	7.8300e-003	0.3022	0.0847	7.4800e-003	0.0922		1,234.503 1	1,234.503 1	0.0744		1,236.362 3
Worker	0.4633	0.2910	4.0972	0.0126	1.3190	9.4800e-003	1.3284	0.3498	8.7300e-003	0.3585		1,259.370 5	1,259.370 5	0.0318		1,260.166 1
Total	0.5847	4.4753	5.1100	0.0242	1.6133	0.0173	1.6306	0.4345	0.0162	0.4508		2,493.873 6	2,493.873 6	0.1062		2,496.528 4

3.5 Demolition - 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					
Fugitive Dust					3.9374	0.0000	3.9374	0.5962	0.0000	0.5962			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.781 2	3,746.781 2	1.0524		3,773.092 0
Total	2.6392	25.7194	20.5941	0.0388	3.9374	1.2427	5.1801	0.5962	1.1553	1.7514		3,746.781 2	3,746.781 2	1.0524		3,773.092 0

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

3.5 Demolition - 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	0.1315	4.3680	1.0313	0.0138	0.3179	0.0127	0.3306	0.0871	0.0122	0.0993		1,498.4709	1,498.4709	0.1052		1,501.1000
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	0.0589	0.0370	0.5208	1.6100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		160.0895	160.0895	4.0500e-003		160.1906
Total	0.1904	4.4050	1.5522	0.0154	0.4855	0.0139	0.4995	0.1316	0.0133	0.1449		1,658.5603	1,658.5603	0.1092		1,661.2906

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					1.7718	0.0000	1.7718	0.2683	0.0000	0.2683			0.0000			0.0000
Off-Road	0.9246	18.3130	24.6739	0.0388		0.8627	0.8627		0.8627	0.8627	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	0.9246	18.3130	24.6739	0.0388	1.7718	0.8627	2.6346	0.2683	0.8627	1.1310	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

3.5 Demolition - 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	0.1315	4.3680	1.0313	0.0138	0.3179	0.0127	0.3306	0.0871	0.0122	0.0993		1,498.4709	1,498.4709	0.1052		1,501.1000
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	0.0589	0.0370	0.5208	1.6100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		160.0895	160.0895	4.0500e-003		160.1906
Total	0.1904	4.4050	1.5522	0.0154	0.4855	0.0139	0.4995	0.1316	0.0133	0.1449		1,658.5603	1,658.5603	0.1092		1,661.2906

3.6 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	0.5624					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.6653	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

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

3.6 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	0.0589	0.0370	0.5208	1.6100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		160.0895	160.0895	4.0500e-003		160.1906
Total	0.0589	0.0370	0.5208	1.6100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		160.0895	160.0895	4.0500e-003		160.1906

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.5624					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1234	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

3.6 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	0.0589	0.0370	0.5208	1.6100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		160.0895	160.0895	4.0500e-003		160.1906
Total	0.0589	0.0370	0.5208	1.6100e-003	0.1677	1.2100e-003	0.1689	0.0445	1.1100e-003	0.0456		160.0895	160.0895	4.0500e-003		160.1906

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0632	0.3367	1.0693	4.0000e-003	0.3308	3.0900e-003	0.3339	0.0885	2.8800e-003	0.0914		406.3363	406.3363	0.0184		406.7951
Unmitigated	0.0632	0.3367	1.0693	4.0000e-003	0.3308	3.0900e-003	0.3339	0.0885	2.8800e-003	0.0914		406.3363	406.3363	0.0184		406.7951

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	25.76	0.00	0.00	111,180	111,180
Total	25.76	0.00	0.00	111,180	111,180

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
Other Asphalt Surfaces	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.551391	0.043400	0.201050	0.120272	0.016162	0.005864	0.021029	0.030512	0.002059	0.001866	0.004766	0.000706	0.000924

5.0 Energy Detail

Historical Energy Use: N

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

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					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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	0.1208	1.0000e-005	6.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4100e-003	1.4100e-003	0.0000		1.5000e-003
Unmitigated	0.1208	1.0000e-005	6.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4100e-003	1.4100e-003	0.0000		1.5000e-003

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0214					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0994					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4100e-003	1.4100e-003	0.0000		1.5000e-003
Total	0.1208	1.0000e-005	6.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4100e-003	1.4100e-003	0.0000		1.5000e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0214					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0994					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4100e-003	1.4100e-003	0.0000		1.5000e-003
Total	0.1208	1.0000e-005	6.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.4100e-003	1.4100e-003	0.0000		1.5000e-003

7.0 Water Detail

Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Off-Highway Trucks	1	8.00	4	402	0.38	Diesel

UnMitigated/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
Equipment Type	lb/day										lb/day					
Off-Highway Trucks	0.6059	5.2634	3.6044	0.0132		0.1931	0.1931		0.1776	0.1776		1,278.5230	1,278.5230	0.4135		1,288.8605
Total	0.6059	5.2634	3.6044	0.0132		0.1931	0.1931		0.1776	0.1776		1,278.5230	1,278.5230	0.4135		1,288.8605

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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Bell Gardens JAFP Cistern Project - South Coast Air Basin, Summer

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

N2O Operational GHG Emission Mobile Calculations - Proposed

Project Code & Title: 18-06819 Bell Gardens JAFP Infiltration

Vehicle Population Breakdown*	
	Gasoline vehicles
	Diesel vehicles
50.0%	Gasoline vehicle %
50.0%	Diesel vehicle %

VMT per Vehicle Type	
1112	Project VMT (CalEEMod output)
556	Gasoline vehicle VMT
556	Diesel vehicle VMT

Gasoline Vehicles	
50.0%	Gasoline vehicle %
0.00046	Tons per year mobile NOX emissions (annual output in CalEEMod)
0.0002	Gasoline vehicle tons per year NOX emissions
4.16%	Percentage to convert NOX emissions to N2O **
0.00001	Tons per year N2O emissions for gasoline vehicles
0.00001	Metric tons per year N2O emissions for gasoline vehicles

Diesel Vehicles	
0.3316	grams N2O per gallon of fuel for diesel vehicles**
25.29	Diesel average miles per gallon*
0.01311	grams per mile N2O for diesel vehicles
7.3	grams per year N2O for diesel vehicles
0.0000073	Metric tons per year N2O emissions for diesel vehicles

CO2E Emissions from N2O	
0.00002	Metric tons per year from gasoline + diesel vehicles
298	GWP of N2O***
0.005	CO2E emissions per year from N2O emissions from gasoline + diesel vehicles

Sources
<p>*Vehicle population source: Assumed 50% gasoline (staff member trips) and 50% diesel (utility truck with Vactor)</p>
<p>**Methodology source: EMFAC2011 Frequently Asked Questions https://www.arb.ca.gov/msei/emfac2011-faq.htm</p>
<p>***GWP source: Intergovernmental Panel on Climate Change (IPCC). 2007. AR4 Climate Change 2007: The Physical Science Basis. Contribution of Working Group I to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change.</p>