

Appendix D

Air Quality/Greenhouse Gas CalEEMod Calculations

Appendix D-1: AQ/GHG Emissions Inventory

Appendix D-2: CalEEMod Output

Appendix D-3: Avoided GHG Emissions

Appendix D-4: Operations and Maintenance Building

Appendix D-1

AQ/GHG Emissions Inventory

Arica and VP Construction, CalEEMod Results of Emissions Estimates

Construction - Emissions Details from CalEEMod Results

Annual
Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2e
Year	tons/yr										MT/yr
2022	3.37	19.33	27.70	0.09	565.09	0.74	565.83	57.15	0.69	57.84	7,766
2023	2.19	9.16	18.97	0.07	485.05	0.31	485.36	49.06	0.29	49.35	5,985
Maximum	3.37	19.33	27.70	0.09	565.09	0.74	565.83	57.15	0.69	57.84	7,766

Construction GHG Total: 13,751

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2e
Year	tons/yr										MT/yr
2022	2.27	6.73	31.63	0.09	74.50	0.09	74.59	8.27	0.08	8.36	7,766
2023	1.74	4.68	21.83	0.07	63.95	0.06	64.01	7.10	0.06	7.16	5,985
Maximum	2.27	6.73	31.63	0.09	74.50	0.09	74.59	8.27	0.08	8.36	7,766

Construction GHG Total: 13,751

Winter Daily Maximum
Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Year	lb/day									
2022	59.1	296.0	443.6	1.4	10,633.0	11.4	10,644.4	1,074.3	10.5	1,084.8
2023	44.7	199.9	346.8	1.2	8,994.8	7.4	9,002.2	908.8	6.8	915.6
Maximum	59.1	296.0	443.6	1.4	10,633.0	11.4	10,644.4	1,074.3	10.5	1,084.8

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Year	lb/day									
2022	42.4	106.7	511.5	1.4	1,396.1	1.4	1,397.5	154.0	1.4	155.3
2023	34.0	83.4	410.9	1.2	1,181.0	1.1	1,182.2	130.3	1.1	131.4
Maximum	42.4	106.7	511.5	1.4	1,396.1	1.4	1,397.5	154.0	1.4	155.3

Summer Daily Maximum
Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Year	lb/day									
2022	57.4	294.9	519.7	1.5	10,633.0	11.4	10,644.4	1,074.3	10.5	1,084.8
2023	43.3	199.3	405.9	1.3	8,994.8	7.4	9,002.2	908.8	6.8	915.6
Maximum	57.4	294.9	519.7	1.5	10,633.0	11.4	10,644.4	1,074.3	10.5	1,084.8

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Year	lb/day									
2022	40.8	105.5	587.7	1.5	1,396.1	1.4	1,397.5	154.0	1.4	155.3
2023	32.6	82.8	470.0	1.3	1,181.0	1.1	1,182.2	130.3	1.1	131.4
Maximum	40.8	105.5	587.7	1.5	1,396.1	1.4	1,397.5	154.0	1.4	155.3

Unmitigated Daily Maximum

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Year	lb/day									
2022	59.1	296.0	519.7	1.5	10,633.0	11.4	10,644.4	1,074.3	10.5	1,084.8
2023	44.7	199.9	405.9	1.3	8,994.8	7.4	9,002.2	908.8	6.8	915.6
Maximum	59.1	296.0	519.7	1.5	10,633.0	11.4	10,644.4	1,074.3	10.5	1,084.8

Mitigated Daily Maximum

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Year	lb/day									
2022	42.4	106.7	587.7	1.5	1,396.1	1.4	1,397.5	154.0	1.4	155.3
2023	34.0	83.4	470.0	1.3	1,181.0	1.1	1,182.2	130.3	1.1	131.4
Maximum	42.4	106.7	587.7	1.5	1,396.1	1.4	1,397.5	154.0	1.4	155.3

Arica and VP Construction, Emissions Estimates

Construction - Sequence for Emissions Estimates

Average working schedule : 20 days/month
Arica, commence construction : 6/1/2022
VP, commence construction : 6/1/2022

Phase	Sched. (+ mo)	Phase Start (estd.)	Phase End (estd.)	Duration (months)	Duration (work days)	No. of Workers	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23
							Month	1	2	3	4	5	11	12	13	14	15	16	17	18
Version: Allows Arica (peak) and VP (mobilization) overlap																				
Arica Mobilization, Prep	0.0	6/1/2022	7/27/2022	2	40	150														
Arica Electrical, PV Install	2.0	7/31/2022	2/12/2023	7	140	520														
Arica Inverter, BESS, Testing	9.0	3/1/2023	6/21/2023	4	80	350														
Arica Commissioning, Cleanup	13.0	7/1/2023	11/18/2023	5	100	150														
VP Mobilization, Prep	0.0	6/1/2022	7/27/2022	2	40	125														
VP Electrical, PV Install	2.0	7/31/2022	12/18/2022	5	100	510														
VP Inverter, BESS, Testing	7.1	1/2/2023	4/24/2023	4	80	350														
VP Commissioning, Cleanup	11.0	5/1/2023	9/18/2023	5	100	150														

Arica and VP Construction, Emissions Estimates
 Construction - Equipment Assumptions, input to CalEEMod

- Assumptions:**
 Project Description: Craft and Equipment Estimate (REV F - July 2020)
 - Work occurs 5 days a week, typical 8 hr/day (20 days/month).
 - On-road motor vehicle trips are counted as one-way for emissions (except RTs where noted).
 - Vendor, water and haul trucks for material and equipment deliveries, all HDT (daily peak < 80/d per transpo analysis).

Construction Schedule, and On-Road Vehicle Use

	Phase	Duration (work days)	Start	End	Avg No. of Workers	Worker Trip Count (1-way, daily)	Heavy Truck Trip Count (1-way, daily)		Total HHDT Truck Trips (1-way, phase)	Wkly Craft- Equip HDT
0	Version: Allows Arica (peak) and VP (mobilization) overlap									
1	Arica Mobilization, Prep	40	6/1/2022	7/27/2022	150	300	20		800	36
2	Arica Electrical, PV Install	140	7/31/2022	2/12/2023	520	1040	40		5,600	40
3	Arica Inverter, BESS, Testing	80	3/1/2023	6/21/2023	350	700	30		2,400	34
4	Arica Commissioning, Cleanup	100	7/1/2023	11/18/2023	150	300	20		2,000	14
5	VP Mobilization, Prep	40	6/1/2022	7/27/2022	125	250	20		800	30
6	VP Electrical, PV Install	100	7/31/2022	12/18/2022	510	1020	40		4,000	36
7	VP Inverter, BESS, Testing	80	1/2/2023	4/24/2023	350	700	30		2,400	34
8	VP Commissioning, Cleanup	100	5/1/2023	9/18/2023	150	300	20		2,000	14

Arica HDT RTs:	5,400
VP HDT RTs:	4,600

Offroad Equipment Use

		CalEEMod Type Offroad Equipment	Type	Rating (hp)	Load Factor	Quantity	
0	Version: Allows Arica (peak) and VP (mobilization) overlap						
1	Arica Mobilization, Prep	Skid Steer Loaders	Offroad	65	0.37	9	
		Rubber Tired Dozer	Offroad	247	0.40	4	
		Tractor/Loader/Backhoe	Offroad	97	0.37	4	
		Grader	Offroad	187	0.41	6	
		Roller	Offroad	80	0.38	6	
		Forklift	Offroad	89	0.20	2	
							31
2	Arica Electrical, PV Install	Crane	Offroad	231	0.29	3	
		Aerial Lift	Offroad	63	0.31	8	
		Skid Steer Loaders	Offroad	65	0.37	6	
		Rubber Tired Dozer	Offroad	247	0.40	2	
		Welders	Offroad	46	0.45	2	
		Trencher	Offroad	78	0.50	4	
		Forklift	Offroad	89	0.20	10	
		Bore/Drill Rig (Pile Driver)	Offroad	180	0.50	15	
		Grader	Offroad	187	0.41	4	
		Roller	Offroad	80	0.38	4	
		Tractor/Loader/Backhoe	Offroad	97	0.37	8	
							66
3	Arica Inverter, BESS, Testing	Skid Steer Loaders	Offroad	65	0.37	6	
		Crane	Offroad	231	0.29	3	
		Aerial Lift	Offroad	63	0.31	8	
		Forklift	Offroad	89	0.20	10	
		Bore/Drill Rig (Pile Driver)	Offroad	180	0.50	15	
		Welders	Offroad	46	0.45	2	
		Tractor/Loader/Backhoe	Offroad	97	0.37	6	
							50
4	Arica Commissioning, Cleanup	Skid Steer Loaders	Offroad	65	0.37	1	
		Welders	Offroad	46	0.45	1	
		Forklift	Offroad	89	0.20	1	
							3

5	VP Mobilization, Prep	Skid Steer Loaders	Offroad	65	0.37	9	
		Rubber Tired Dozer	Offroad	247	0.40	4	
		Tractor/Loader/Backhoe	Offroad	97	0.37	4	
		Grader	Offroad	187	0.41	4	
		Roller	Offroad	80	0.38	6	
		Forklift	Offroad	89	0.20	2	
							29
6	VP Electrical, PV Install	Crane	Offroad	231	0.29	3	
		Aerial Lift	Offroad	63	0.31	8	
		Skid Steer Loaders	Offroad	65	0.37	6	
		Rubber Tired Dozer	Offroad	247	0.40	2	
		Welders	Offroad	46	0.45	2	
		Trencher	Offroad	78	0.50	4	
		Forklift	Offroad	89	0.20	10	
		Bore/Drill Rig (Pile Driver)	Offroad	180	0.50	15	
		Grader	Offroad	187	0.41	4	
		Roller	Offroad	80	0.38	4	
		Tractor/Loader/Backhoe	Offroad	97	0.37	8	
							66
7	VP Inverter, BESS, Testing	Skid Steer Loaders	Offroad	65	0.37	6	
		Crane	Offroad	231	0.29	3	
		Aerial Lift	Offroad	63	0.31	8	
		Forklift	Offroad	89	0.20	8	
		Bore/Drill Rig (Pile Driver)	Offroad	180	0.50	15	
		Welders	Offroad	46	0.45	2	
		Tractor/Loader/Backhoe	Offroad	97	0.37	3	
							45
8	VP Commissioning, Cleanup	Skid Steer Loaders	Offroad	65	0.37	1	
		Welders	Offroad	46	0.45	1	
		Forklift	Offroad	89	0.20	1	
							3

Arica and VP Operation, Mobile Sources and Overview

Mobile Sources: Motor vehicle trips

Admin Draft EIR Project Description (12/2020):

- each Project would require up to six workers to perform daily visual inspections and minor repairs.

- intermittently, the presence of 10 to 15 workers may be required for repairs or replacement of equipment and panel cleaning.

Basis: fewer than 110 daily operational trips, default fleet mix of vehicle types, average 60 miles per trip

Operation - Mobile Source Emissions Details from CalEEMod Results

Annual Emissions

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2e
Category	tons/yr										MT/yr
Mobile	0.1852	1.2682	3.4615	0.0167	1.3576	9.95E-03	1.3675	0.3640	9.32E-03	0.3733	1,541.55

Winter, Daily Emissions

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Category	lb/day									
Mobile	1.0094	6.7684	17.9138	0.0897	7.5960	0.0548	7.6508	2.0336	0.0513	2.0849

Summer, Daily Emissions

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Category	lb/day									
Mobile	1.1126	6.6184	22.2884	0.0974	7.5960	0.0547	7.6507	2.0336	0.0512	2.0848

Operation: Overview including Standby Generators

Total Maximum Operation Daily Emissions - Area, Mobile, Stationary

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	CO2e
Category	lb/day										MT/yr
Area	1.65	0.16	17.79	0.001			0.06			0.06	3.3
Mobile	1.11	6.77	22.29	0.097	7.60	0.05	7.65	2.03	0.05	2.08	1,541.5
Standby Generators	0.91	2.53	3.28	0.004			0.13			0.13	10.5
Total	3.67	9.46	43.36	0.10	7.60	0.05	7.85	2.03	0.05	2.28	1,555.4

Arica and VP Operation, Standby Emergency Generators

Stationary Sources: Proposed Emergency Backup Generator Engine(s)

Admin Draft EIR Project Description (12/2020):
- up to two Project substations for Arica and one Project substation for Victory Pass; each may include a 100-kW emergency generator.
- Compliant with: SCAQMD BACT Guidelines for IC Engines, Emergency Use (2-1-2019 Rev 6) & SCAQMD Rule 1470.

Diesel, emergency use only

100 kW, genset	3 engines, total
134 hp	1 load factor, max during testing
50 hours/year for testing per ATCM	

Emergency Use only (Diesel ATCM compliant) SCAQMD BACT = Tier 3 exhaust standards (g/kW-hr)		CalEEMod, Appx D, Table 12.1 (g/hp-hr)			Per engine		Per engine
					Hourly (lb/hr)	Annual (ton/yr)	
		1.02	ROG (as NMHC)	0.302		0.008	
4 NOx + NMHC		2.85	NOx	0.843		0.021	
5 CO		3.70	CO	1.094		0.027	
SOx (0.0015% by wt ULSD)		0.005	SOx	0.001		0.000	
0.2 PM		0.15	PM10/PM2.5	0.044		0.001	
							CO2e (MT/yr)
		521.64	CO2 (g/hp-hr)			3.498	
		0.073	CH4 (g/hp-hr)	25	GWP	0.012	
		ROG	NOx	CO	SO2	PM10/ PM2.5	
		(lb/day)	(lb/day)	(lb/day)	(lb/day)	(lb/day)	
Standby Generator Engines	(1-hr test/day)	0.91	2.53	3.28	0.004	0.13	CO2e
		(ton/yr)	(ton/yr)	(ton/yr)	(ton/yr)	(ton/yr)	(MT/yr)
Standby Generator Engines		0.02	0.06	0.08	0.000	0.003	10.53

Appendix D-2

CalEEMod Output

Arica and Victory Pass Solar - Mojave Desert Air Basin, Annual

Arica and Victory Pass Solar

Mojave Desert Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	174,240.00	1000sqft	4,000.00	174,240,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2023
Utility Company					
CO2 Intensity (lb/MWhr)	0	CH4 Intensity (lb/MWhr)	0	N2O Intensity (lb/MWhr)	0

1.3 User Entered Comments & Non-Default Data

Arica and Victory Pass Solar - Mojave Desert Air Basin, Annual

Project Characteristics - Version: Allowing overlap

Land Use - Approx 4000 ac combined.

Construction Phase - Sequence here allows overlap.

Off-road Equipment - Ph 1 approx 31 pcs equipment

Off-road Equipment - Ph 2 approx 66 pcs equipment

Off-road Equipment - Ph 3 approx 50 pcs equipment

Off-road Equipment - Ph 4 approx 3 pcs equipment

Off-road Equipment - Ph 5 approx 29 pcs equipment

Off-road Equipment - Ph 6 approx 66 pcs equipment

Off-road Equipment - Ph 7 approx 45 pcs equipment

Off-road Equipment - Ph 8 approx 3 pcs equipment

Trips and VMT - Trip length 60 mil each way per Transpo Analysis. Arica approx 5400 HDT round trips. VP approx 4600 HDT round trips.

On-road Fugitive Dust - Typical 6 mi or 10 pct of length on unpaved surfaces, gravel surface 6 pct silt content

Vehicle Trips - Trip Rate 0.001 per 1000sqft per day: fewer than 110 daily operational trips

Consumer Products - no consumer products

Area Coating - minimal or no coatings needed

Energy Use - energy use not applicable

Water And Wastewater - interior water consumption factors not applicable

Solid Waste - light industrial solid waste factors not applicable

Land Use Change - up to 4000 acres loss of natural carbon uptake

Construction Off-road Equipment Mitigation - Tier 4 offroad; water 2x daily is 55% effective PM10 control per Rule 403; suppressant is 84% effective per Table XI-D; unpaved road speed of 15 mph and no visible dust

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	32.00

Arica and Victory Pass Solar - Mojave Desert Air Basin, Annual

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	60.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	14.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	44.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	18.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	20.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	42.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	32.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	155,000.00	140.00
tblConstructionPhase	NumDays	155,000.00	100.00
tblConstructionPhase	NumDays	155,000.00	80.00
tblConstructionPhase	NumDays	155,000.00	80.00

Arica and Victory Pass Solar - Mojave Desert Air Basin, Annual

tblConstructionPhase	NumDays	155,000.00	100.00
tblConstructionPhase	NumDays	155,000.00	100.00
tblConsumerProducts	ROG_EF	2.14E-05	0
tblEnergyUse	LightingElect	2.93	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	T24E	2.20	0.00
tblEnergyUse	T24NG	15.36	0.00
tblOffRoadEquipment	HorsePower	221.00	180.00
tblOffRoadEquipment	HorsePower	221.00	180.00
tblOffRoadEquipment	HorsePower	221.00	180.00
tblOffRoadEquipment	HorsePower	221.00	180.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

Arica and Victory Pass Solar - Mojave Desert Air Basin, Annual

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	MaterialSiltContent	8.50	6.00
tblOnRoadDust	MaterialSiltContent	8.50	6.00
tblOnRoadDust	MaterialSiltContent	8.50	6.00
tblOnRoadDust	MaterialSiltContent	8.50	6.00
tblOnRoadDust	MaterialSiltContent	8.50	6.00
tblOnRoadDust	MaterialSiltContent	8.50	6.00
tblOnRoadDust	MaterialSiltContent	8.50	6.00
tblOnRoadDust	MaterialSiltContent	8.50	6.00
tblOnRoadDust	MeanVehicleSpeed	40.00	25.00
tblOnRoadDust	MeanVehicleSpeed	40.00	25.00

Arica and Victory Pass Solar - Mojave Desert Air Basin, Annual

tblOnRoadDust	MeanVehicleSpeed	40.00	25.00
tblOnRoadDust	MeanVehicleSpeed	40.00	25.00
tblOnRoadDust	MeanVehicleSpeed	40.00	25.00
tblOnRoadDust	MeanVehicleSpeed	40.00	25.00
tblOnRoadDust	MeanVehicleSpeed	40.00	25.00
tblOnRoadDust	MeanVehicleSpeed	40.00	25.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	216,057.60	0.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00

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tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripLength	6.60	60.00
tblTripsAndVMT	VendorTripLength	6.60	60.00
tblTripsAndVMT	VendorTripLength	6.60	60.00
tblTripsAndVMT	VendorTripLength	6.60	60.00
tblTripsAndVMT	VendorTripLength	6.60	60.00
tblTripsAndVMT	VendorTripLength	6.60	60.00
tblTripsAndVMT	VendorTripLength	6.60	60.00
tblTripsAndVMT	VendorTripLength	6.60	60.00
tblTripsAndVMT	VendorTripLength	6.60	60.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	28,558.00	40.00
tblTripsAndVMT	VendorTripNumber	28,558.00	40.00
tblTripsAndVMT	VendorTripNumber	28,558.00	30.00
tblTripsAndVMT	VendorTripNumber	28,558.00	30.00

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tblTripsAndVMT	VendorTripNumber	28,558.00	20.00
tblTripsAndVMT	VendorTripNumber	28,558.00	20.00
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	WorkerTripLength	16.80	60.00
tblTripsAndVMT	WorkerTripLength	16.80	60.00
tblTripsAndVMT	WorkerTripLength	16.80	60.00
tblTripsAndVMT	WorkerTripLength	16.80	60.00
tblTripsAndVMT	WorkerTripLength	16.80	60.00
tblTripsAndVMT	WorkerTripLength	16.80	60.00
tblTripsAndVMT	WorkerTripLength	16.80	60.00
tblTripsAndVMT	WorkerTripLength	16.80	60.00
tblTripsAndVMT	WorkerTripNumber	78.00	300.00
tblTripsAndVMT	WorkerTripNumber	73.00	250.00
tblTripsAndVMT	WorkerTripNumber	73,181.00	1,040.00
tblTripsAndVMT	WorkerTripNumber	73,181.00	1,020.00
tblTripsAndVMT	WorkerTripNumber	73,181.00	700.00
tblTripsAndVMT	WorkerTripNumber	73,181.00	700.00
tblTripsAndVMT	WorkerTripNumber	73,181.00	300.00
tblTripsAndVMT	WorkerTripNumber	73,181.00	300.00
tblVehicleTrips	CC_TL	6.60	60.00

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tblVehicleTrips	CNW_TL	6.60	60.00
tblVehicleTrips	CW_TL	14.70	60.00
tblVehicleTrips	ST_TR	1.32	1.0000e-003
tblVehicleTrips	SU_TR	0.68	1.0000e-003
tblVehicleTrips	WD_TR	6.97	1.0000e-003
tblWater	IndoorWaterUseRate	40,293,000,000.00	0.00

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					
2022	3.3686	19.3320	27.7042	0.0861	565.0908	0.7440	565.8347	57.1536	0.6870	57.8406	0.0000	7,741.9218	7,741.9218	0.9568	0.0000	7,765.8425
2023	2.1866	9.1639	18.9737	0.0662	485.0541	0.3082	485.3623	49.0598	0.2870	49.3468	0.0000	5,970.2941	5,970.2941	0.5836	0.0000	5,984.8839
Maximum	3.3686	19.3320	27.7042	0.0861	565.0908	0.7440	565.8347	57.1536	0.6870	57.8406	0.0000	7,741.9218	7,741.9218	0.9568	0.0000	7,765.8425

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					
2022	2.2658	6.7275	31.6303	0.0861	74.5014	0.0850	74.5864	8.2740	0.0823	8.3563	0.0000	7,741.9187	7,741.9187	0.9568	0.0000	7,765.8394
2023	1.7399	4.6769	21.8329	0.0662	63.9537	0.0582	64.0119	7.1037	0.0560	7.1597	0.0000	5,970.2922	5,970.2922	0.5836	0.0000	5,984.8820
Maximum	2.2658	6.7275	31.6303	0.0861	74.5014	0.0850	74.5864	8.2740	0.0823	8.3563	0.0000	7,741.9187	7,741.9187	0.9568	0.0000	7,765.8394

	ROG	NOx	CO	SO2	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	27.89	59.98	-14.54	0.00	86.82	86.40	86.82	85.52	85.80	85.52	0.00	0.00	0.00	0.00	0.00	0.00

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
3	6-1-2022	8-31-2022	8.1379	2.8915
4	9-1-2022	11-30-2022	11.5111	4.8160
5	12-1-2022	2-28-2023	7.1281	3.2961
6	3-1-2023	5-31-2023	4.8512	2.7429
7	6-1-2023	8-31-2023	1.6544	1.1222
8	9-1-2023	9-30-2023	0.2916	0.2232
		Highest	11.5111	4.8160

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	0.1483	0.0146	1.6008	1.2000e-004		5.7100e-003	5.7100e-003		5.7100e-003	5.7100e-003	0.0000	3.1134	3.1134	8.1700e-003	0.0000	3.3176
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	0.1852	1.2682	3.4615	0.0167	1.3576	9.9500e-003	1.3675	0.3640	9.3200e-003	0.3733	0.0000	1,540.2197	1,540.2197	0.0532	0.0000	1,541.5491
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	0.3335	1.2828	5.0624	0.0168	1.3576	0.0157	1.3732	0.3640	0.0150	0.3790	0.0000	1,543.3331	1,543.3331	0.0614	0.0000	1,544.8666

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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	0.1483	0.0146	1.6008	1.2000e-004		5.7100e-003	5.7100e-003		5.7100e-003	5.7100e-003	0.0000	3.1134	3.1134	8.1700e-003	0.0000	3.3176
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	0.1852	1.2682	3.4615	0.0167	1.3576	9.9500e-003	1.3675	0.3640	9.3200e-003	0.3733	0.0000	1,540.2197	1,540.2197	0.0532	0.0000	1,541.5491
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	0.3335	1.2828	5.0624	0.0168	1.3576	0.0157	1.3732	0.3640	0.0150	0.3790	0.0000	1,543.3331	1,543.3331	0.0614	0.0000	1,544.8666

[illegible]

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2.3 Vegetation**Vegetation**

	CO2e
Category	MT
Vegetation Land Change	- 17,240.00 00
Total	- 17,240.00 00

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	1 Arica Mobilization Prep	Trenching	6/1/2022	7/26/2022	5	40	1 Arica Mobilization Prep
2	5 VP Mobilization Prep	Trenching	6/1/2022	7/26/2022	5	40	5 VP Mobilization Prep
3	2 Arica Electrical PV Install	Building Construction	7/31/2022	2/10/2023	5	140	2 Arica Electrical PV Install
4	6 VP Electrical PV Install	Building Construction	7/31/2022	12/16/2022	5	100	6 VP Electrical PV Install
5	7 VP Inv BESS	Building Construction	1/1/2023	4/21/2023	5	80	7 VP Inv BESS
6	3 Arica Inv BESS	Building Construction	3/1/2023	6/20/2023	5	80	3 Arica Inv BESS
7	8 VP Commissioning	Building Construction	5/1/2023	9/15/2023	5	100	8 VP Commissioning
8	4 Arica Commissioning	Building Construction	7/1/2023	11/17/2023	5	100	4 Arica Commissioning

Acres of Grading (Site Preparation Phase): 0

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Acres of Grading (Grading Phase): 0**Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
1 Arica Mobilization Prep	Forklifts	2	7.00	89	0.20
1 Arica Mobilization Prep	Graders	6	7.00	187	0.41
1 Arica Mobilization Prep	Rollers	6	7.00	80	0.38
1 Arica Mobilization Prep	Rubber Tired Dozers	4	8.00	247	0.40
1 Arica Mobilization Prep	Skid Steer Loaders	9	7.00	65	0.37
1 Arica Mobilization Prep	Tractors/Loaders/Backhoes	4	8.00	97	0.37
5 VP Mobilization Prep	Forklifts	2	7.00	89	0.20
5 VP Mobilization Prep	Graders	4	7.00	187	0.41
5 VP Mobilization Prep	Rollers	6	7.00	80	0.38
5 VP Mobilization Prep	Rubber Tired Dozers	4	7.00	247	0.40
5 VP Mobilization Prep	Skid Steer Loaders	9	7.00	65	0.37
5 VP Mobilization Prep	Tractors/Loaders/Backhoes	4	7.00	97	0.37
2 Arica Electrical PV Install	Aerial Lifts	8	7.00	63	0.31
2 Arica Electrical PV Install	Bore/Drill Rigs	15	7.00	180	0.50
2 Arica Electrical PV Install	Cranes	3	7.00	231	0.29
2 Arica Electrical PV Install	Forklifts	10	8.00	89	0.20
2 Arica Electrical PV Install	Generator Sets	1	8.00	84	0.74
2 Arica Electrical PV Install	Graders	4	7.00	187	0.41
2 Arica Electrical PV Install	Rollers	4	7.00	80	0.38
2 Arica Electrical PV Install	Rubber Tired Dozers	2	7.00	247	0.40

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2 Arica Electrical PV Install	Skid Steer Loaders	6	7.00	65	0.37
2 Arica Electrical PV Install	Tractors/Loaders/Backhoes	8	7.00	97	0.37
2 Arica Electrical PV Install	Trenchers	3	7.00	78	0.50
2 Arica Electrical PV Install	Welders	2	8.00	46	0.45
6 VP Electrical PV Install	Aerial Lifts	8	7.00	63	0.31
6 VP Electrical PV Install	Bore/Drill Rigs	15	7.00	180	0.50
6 VP Electrical PV Install	Cranes	3	7.00	231	0.29
6 VP Electrical PV Install	Forklifts	10	8.00	89	0.20
6 VP Electrical PV Install	Generator Sets	1	8.00	84	0.74
6 VP Electrical PV Install	Graders	4	7.00	187	0.41
6 VP Electrical PV Install	Rollers	4	7.00	80	0.38
6 VP Electrical PV Install	Rubber Tired Dozers	2	7.00	247	0.40
6 VP Electrical PV Install	Skid Steer Loaders	6	7.00	65	0.37
6 VP Electrical PV Install	Tractors/Loaders/Backhoes	8	7.00	97	0.37
6 VP Electrical PV Install	Trenchers	3	7.00	78	0.50
6 VP Electrical PV Install	Welders	2	8.00	46	0.45
7 VP Inv BESS	Aerial Lifts	8	7.00	63	0.31
7 VP Inv BESS	Bore/Drill Rigs	15	7.00	180	0.50
7 VP Inv BESS	Cranes	3	7.00	231	0.29
7 VP Inv BESS	Forklifts	8	8.00	89	0.20
7 VP Inv BESS	Generator Sets	1	8.00	84	0.74
7 VP Inv BESS	Skid Steer Loaders	6	7.00	65	0.37
7 VP Inv BESS	Tractors/Loaders/Backhoes	2	7.00	97	0.37
7 VP Inv BESS	Welders	2	8.00	46	0.45
3 Arica Inv BESS	Aerial Lifts	8	7.00	63	0.31
3 Arica Inv BESS	Bore/Drill Rigs	15	7.00	180	0.50
3 Arica Inv BESS	Cranes	3	7.00	231	0.29

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3 Arica Inv BESS	Forklifts	10	8.00	89	0.20
3 Arica Inv BESS	Generator Sets	1	8.00	84	0.74
3 Arica Inv BESS	Skid Steer Loaders	6	7.00	65	0.37
3 Arica Inv BESS	Tractors/Loaders/Backhoes	4	7.00	97	0.37
3 Arica Inv BESS	Welders	2	8.00	46	0.45
8 VP Commissioning	Cranes	1	0.00	231	0.29
8 VP Commissioning	Forklifts	1	8.00	89	0.20
8 VP Commissioning	Generator Sets	1	8.00	84	0.74
8 VP Commissioning	Tractors/Loaders/Backhoes	1	0.00	97	0.37
8 VP Commissioning	Welders	1	8.00	46	0.45
4 Arica Commissioning	Cranes	1	0.00	231	0.29
4 Arica Commissioning	Forklifts	1	8.00	89	0.20
4 Arica Commissioning	Generator Sets	1	8.00	84	0.74
4 Arica Commissioning	Tractors/Loaders/Backhoes	1	0.00	97	0.37
4 Arica Commissioning	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
1 Arica Mobilization Prep	31	300.00	20.00	10.00	60.00	60.00	60.00	LD_Mix	HHDT	HHDT
5 VP Mobilization Prep	29	250.00	20.00	10.00	60.00	60.00	60.00	LD_Mix	HHDT	HHDT
2 Arica Electrical PV Install	66	1,040.00	40.00	10.00	60.00	60.00	60.00	LD_Mix	HHDT	HHDT
6 VP Electrical PV Install	66	1,020.00	40.00	10.00	60.00	60.00	60.00	LD_Mix	HHDT	HHDT
7 VP Inv BESS	45	700.00	30.00	10.00	60.00	60.00	60.00	LD_Mix	HHDT	HHDT
3 Arica Inv BESS	49	700.00	30.00	10.00	60.00	60.00	60.00	LD_Mix	HHDT	HHDT
8 VP Commissioning	5	300.00	20.00	10.00	60.00	60.00	60.00	LD_Mix	HHDT	HHDT
4 Arica Commissioning	5	300.00	20.00	10.00	60.00	60.00	60.00	LD_Mix	HHDT	HHDT

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3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 1 Arica Mobilization Prep - 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	0.1561	1.7540	1.1006	2.2800e-003		0.0765	0.0765		0.0704	0.0704	0.0000	200.5058	200.5058	0.0649	0.0000	202.1270
Total	0.1561	1.7540	1.1006	2.2800e-003		0.0765	0.0765		0.0704	0.0704	0.0000	200.5058	200.5058	0.0649	0.0000	202.1270

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3.2 1 Arica Mobilization Prep - 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	5.0000e-005	1.8100e-003	3.0000e-004	1.0000e-005	0.0228	1.0000e-005	0.0228	2.3100e-003	1.0000e-005	2.3200e-003	0.0000	0.9388	0.9388	2.0000e-005	0.0000	0.9394
Vendor	4.1200e-003	0.1451	0.0237	7.9000e-004	1.8223	4.9000e-004	1.8228	0.1849	4.7000e-004	0.1854	0.0000	75.1009	75.1009	1.9900e-003	0.0000	75.1506
Worker	0.0911	0.0807	0.7376	2.3300e-003	27.2930	1.5300e-003	27.2945	2.7600	1.4100e-003	2.7614	0.0000	210.9914	210.9914	5.6800e-003	0.0000	211.1334
Total	0.0952	0.2276	0.7616	3.1300e-003	29.1381	2.0300e-003	29.1401	2.9473	1.8900e-003	2.9492	0.0000	287.0310	287.0310	7.6900e-003	0.0000	287.2234

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	0.0320	0.2869	1.3026	2.2800e-003		3.7300e-003	3.7300e-003		3.7300e-003	3.7300e-003	0.0000	200.5056	200.5056	0.0649	0.0000	202.1268
Total	0.0320	0.2869	1.3026	2.2800e-003		3.7300e-003	3.7300e-003		3.7300e-003	3.7300e-003	0.0000	200.5056	200.5056	0.0649	0.0000	202.1268

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3.2 1 Arica Mobilization Prep - 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	5.0000e-005	1.8100e-003	3.0000e-004	1.0000e-005	3.0300e-003	1.0000e-005	3.0400e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	0.9388	0.9388	2.0000e-005	0.0000	0.9394
Vendor	4.1200e-003	0.1451	0.0237	7.9000e-004	0.2426	4.9000e-004	0.2431	0.0275	4.7000e-004	0.0280	0.0000	75.1009	75.1009	1.9900e-003	0.0000	75.1506
Worker	0.0911	0.0807	0.7376	2.3300e-003	3.5968	1.5300e-003	3.5984	0.3991	1.4100e-003	0.4005	0.0000	210.9914	210.9914	5.6800e-003	0.0000	211.1334
Total	0.0952	0.2276	0.7616	3.1300e-003	3.8424	2.0300e-003	3.8445	0.4270	1.8900e-003	0.4289	0.0000	287.0310	287.0310	7.6900e-003	0.0000	287.2234

3.3 5 VP Mobilization Prep - 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	0.1316	1.4653	0.9821	1.9300e-003		0.0656	0.0656		0.0603	0.0603	0.0000	169.9087	169.9087	0.0550	0.0000	171.2825
Total	0.1316	1.4653	0.9821	1.9300e-003		0.0656	0.0656		0.0603	0.0603	0.0000	169.9087	169.9087	0.0550	0.0000	171.2825

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3.3 5 VP Mobilization Prep - 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	5.0000e-005	1.8100e-003	3.0000e-004	1.0000e-005	0.0228	1.0000e-005	0.0228	2.3100e-003	1.0000e-005	2.3200e-003	0.0000	0.9388	0.9388	2.0000e-005	0.0000	0.9394
Vendor	4.1200e-003	0.1451	0.0237	7.9000e-004	1.8223	4.9000e-004	1.8228	0.1849	4.7000e-004	0.1854	0.0000	75.1009	75.1009	1.9900e-003	0.0000	75.1506
Worker	0.0759	0.0673	0.6146	1.9400e-003	22.7442	1.2700e-003	22.7454	2.3000	1.1700e-003	2.3012	0.0000	175.8262	175.8262	4.7300e-003	0.0000	175.9445
Total	0.0801	0.2142	0.6387	2.7400e-003	24.5893	1.7700e-003	24.5910	2.4873	1.6500e-003	2.4889	0.0000	251.8658	251.8658	6.7400e-003	0.0000	252.0345

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	0.0277	0.2684	1.1367	1.9300e-003		3.1600e-003	3.1600e-003		3.1600e-003	3.1600e-003	0.0000	169.9085	169.9085	0.0550	0.0000	171.2823
Total	0.0277	0.2684	1.1367	1.9300e-003		3.1600e-003	3.1600e-003		3.1600e-003	3.1600e-003	0.0000	169.9085	169.9085	0.0550	0.0000	171.2823

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3.3 5 VP Mobilization Prep - 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	5.0000e-005	1.8100e-003	3.0000e-004	1.0000e-005	3.0300e-003	1.0000e-005	3.0400e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	0.9388	0.9388	2.0000e-005	0.0000	0.9394
Vendor	4.1200e-003	0.1451	0.0237	7.9000e-004	0.2426	4.9000e-004	0.2431	0.0275	4.7000e-004	0.0280	0.0000	75.1009	75.1009	1.9900e-003	0.0000	75.1506
Worker	0.0759	0.0673	0.6146	1.9400e-003	2.9974	1.2700e-003	2.9986	0.3326	1.1700e-003	0.3337	0.0000	175.8262	175.8262	4.7300e-003	0.0000	175.9445
Total	0.0801	0.2142	0.6387	2.7400e-003	3.2430	1.7700e-003	3.2448	0.3605	1.6500e-003	0.3621	0.0000	251.8658	251.8658	6.7400e-003	0.0000	252.0345

3.4 2 Arica Electrical PV Install - 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	0.6391	6.6464	5.5895	0.0134		0.2961	0.2961		0.2737	0.2737	0.0000	1,172.0221	1,172.0221	0.3663	0.0000	1,181.1786
Total	0.6391	6.6464	5.5895	0.0134		0.2961	0.2961		0.2737	0.2737	0.0000	1,172.0221	1,172.0221	0.3663	0.0000	1,181.1786

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3.4 2 Arica Electrical PV Install - 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	4.0000e-005	1.4200e-003	2.3000e-004	1.0000e-005	0.0228	0.0000	0.0228	2.3100e-003	0.0000	2.3100e-003	0.0000	0.7376	0.7376	2.0000e-005	0.0000	0.7381
Vendor	0.0226	0.7978	0.1305	4.3400e-003	10.0228	2.7200e-003	10.0255	1.0171	2.6000e-003	1.0198	0.0000	413.0547	413.0547	0.0109	0.0000	413.3283
Worker	0.8682	0.7697	7.0314	0.0222	260.1931	0.0146	260.2077	26.3123	0.0134	26.3257	0.0000	2,011.4514	2,011.4514	0.0542	0.0000	2,012.8051
Total	0.8909	1.5689	7.1622	0.0266	270.2387	0.0173	270.2560	27.3318	0.0160	27.3478	0.0000	2,425.2438	2,425.2438	0.0651	0.0000	2,426.8715

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	0.1809	1.4395	7.4593	0.0134		0.0218	0.0218		0.0218	0.0218	0.0000	1,172.0207	1,172.0207	0.3663	0.0000	1,181.1772
Total	0.1809	1.4395	7.4593	0.0134		0.0218	0.0218		0.0218	0.0218	0.0000	1,172.0207	1,172.0207	0.3663	0.0000	1,181.1772

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3.4 2 Arica Electrical PV Install - 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	4.0000e-005	1.4200e-003	2.3000e-004	1.0000e-005	3.0200e-003	0.0000	3.0200e-003	3.4000e-004	0.0000	3.4000e-004	0.0000	0.7376	0.7376	2.0000e-005	0.0000	0.7381
Vendor	0.0226	0.7978	0.1305	4.3400e-003	1.3342	2.7200e-003	1.3369	0.1515	2.6000e-003	0.1541	0.0000	413.0547	413.0547	0.0109	0.0000	413.3283
Worker	0.8682	0.7697	7.0314	0.0222	34.2898	0.0146	34.3044	3.8046	0.0134	3.8180	0.0000	2,011.4514	2,011.4514	0.0542	0.0000	2,012.8051
Total	0.8909	1.5689	7.1622	0.0266	35.6270	0.0173	35.6443	3.9564	0.0160	3.9724	0.0000	2,425.2438	2,425.2438	0.0651	0.0000	2,426.8715

3.4 2 Arica Electrical PV Install - 2023**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	0.1604	1.6331	1.5031	3.6600e-003		0.0704	0.0704		0.0650	0.0650	0.0000	319.9371	319.9371	0.0999	0.0000	322.4344
Total	0.1604	1.6331	1.5031	3.6600e-003		0.0704	0.0704		0.0650	0.0650	0.0000	319.9371	319.9371	0.0999	0.0000	322.4344

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3.4 2 Arica Electrical PV Install - 2023**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	1.0000e-005	2.4000e-004	6.0000e-005	0.0000	0.0227	0.0000	0.0227	2.2900e-003	0.0000	2.2900e-003	0.0000	0.1959	0.1959	0.0000	0.0000	0.1960
Vendor	4.6300e-003	0.1347	0.0313	1.1500e-003	2.7335	4.0000e-004	2.7339	0.2774	3.8000e-004	0.2778	0.0000	109.7199	109.7199	2.1900e-003	0.0000	109.7747
Worker	0.2220	0.1887	1.7485	5.8400e-003	70.9618	3.8600e-003	70.9656	7.1761	3.5500e-003	7.1796	0.0000	527.9228	527.9228	0.0132	0.0000	528.2521
Total	0.2266	0.3236	1.7798	6.9900e-003	73.7180	4.2600e-003	73.7222	7.4558	3.9300e-003	7.4597	0.0000	637.8386	637.8386	0.0154	0.0000	638.2228

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	0.0493	0.3926	2.0344	3.6600e-003		5.9300e-003	5.9300e-003		5.9300e-003	5.9300e-003	0.0000	319.9367	319.9367	0.0999	0.0000	322.4340
Total	0.0493	0.3926	2.0344	3.6600e-003		5.9300e-003	5.9300e-003		5.9300e-003	5.9300e-003	0.0000	319.9367	319.9367	0.0999	0.0000	322.4340

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3.4 2 Arica Electrical PV Install - 2023**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	1.0000e-005	2.4000e-004	6.0000e-005	0.0000	2.9800e-003	0.0000	2.9800e-003	3.3000e-004	0.0000	3.3000e-004	0.0000	0.1959	0.1959	0.0000	0.0000	0.1960
Vendor	4.6300e-003	0.1347	0.0313	1.1500e-003	0.3639	4.0000e-004	0.3643	0.0413	3.8000e-004	0.0417	0.0000	109.7199	109.7199	2.1900e-003	0.0000	109.7747
Worker	0.2220	0.1887	1.7485	5.8400e-003	9.3518	3.8600e-003	9.3556	1.0376	3.5500e-003	1.0412	0.0000	527.9228	527.9228	0.0132	0.0000	528.2521
Total	0.2266	0.3236	1.7798	6.9900e-003	9.7186	4.2600e-003	9.7229	1.0793	3.9300e-003	1.0832	0.0000	637.8386	637.8386	0.0154	0.0000	638.2228

3.5 6 VP Electrical PV Install - 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	0.5810	6.0422	5.0813	0.0122		0.2692	0.2692		0.2488	0.2488	0.0000	1,065.4746	1,065.4746	0.3330	0.0000	1,073.7987
Total	0.5810	6.0422	5.0813	0.0122		0.2692	0.2692		0.2488	0.2488	0.0000	1,065.4746	1,065.4746	0.3330	0.0000	1,073.7987

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3.5 6 VP Electrical PV Install - 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	5.0000e-005	1.8100e-003	3.0000e-004	1.0000e-005	0.0228	1.0000e-005	0.0228	2.3100e-003	1.0000e-005	2.3200e-003	0.0000	0.9388	0.9388	2.0000e-005	0.0000	0.9394
Vendor	0.0206	0.7253	0.1187	3.9500e-003	9.1116	2.4700e-003	9.1141	0.9247	2.3700e-003	0.9270	0.0000	375.5043	375.5043	9.9500e-003	0.0000	375.7530
Worker	0.7741	0.6863	6.2693	0.0198	231.9904	0.0130	232.0034	23.4603	0.0120	23.4723	0.0000	1,793.4270	1,793.4270	0.0483	0.0000	1,794.6339
Total	0.7947	1.4134	6.3882	0.0238	241.1248	0.0155	241.1402	24.3873	0.0144	24.4016	0.0000	2,169.8700	2,169.8700	0.0583	0.0000	2,171.3263

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	0.1644	1.3087	6.7812	0.0122		0.0198	0.0198		0.0198	0.0198	0.0000	1,065.4733	1,065.4733	0.3330	0.0000	1,073.7974
Total	0.1644	1.3087	6.7812	0.0122		0.0198	0.0198		0.0198	0.0198	0.0000	1,065.4733	1,065.4733	0.3330	0.0000	1,073.7974

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3.5 6 VP Electrical PV Install - 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	5.0000e-005	1.8100e-003	3.0000e-004	1.0000e-005	3.0300e-003	1.0000e-005	3.0400e-003	3.4000e-004	1.0000e-005	3.5000e-004	0.0000	0.9388	0.9388	2.0000e-005	0.0000	0.9394
Vendor	0.0206	0.7253	0.1187	3.9500e-003	1.2129	2.4700e-003	1.2154	0.1377	2.3700e-003	0.1401	0.0000	375.5043	375.5043	9.9500e-003	0.0000	375.7530
Worker	0.7741	0.6863	6.2693	0.0198	30.5731	0.0130	30.5861	3.3922	0.0120	3.4041	0.0000	1,793.4270	1,793.4270	0.0483	0.0000	1,794.6339
Total	0.7947	1.4134	6.3882	0.0238	31.7890	0.0155	31.8045	3.5302	0.0144	3.5446	0.0000	2,169.8700	2,169.8700	0.0583	0.0000	2,171.3263

3.6 7 VP Inv BESS - 2023**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	0.2283	2.2405	2.4621	6.7300e-003		0.0875	0.0875		0.0813	0.0813	0.0000	587.6195	587.6195	0.1805	0.0000	592.1321
Total	0.2283	2.2405	2.4621	6.7300e-003		0.0875	0.0875		0.0813	0.0813	0.0000	587.6195	587.6195	0.1805	0.0000	592.1321

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3.6 7 VP Inv BESS - 2023**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	4.0000e-005	1.1200e-003	2.6000e-004	1.0000e-005	0.0228	0.0000	0.0228	2.3100e-003	0.0000	2.3100e-003	0.0000	0.9143	0.9143	2.0000e-005	0.0000	0.9148
Vendor	9.2600e-003	0.2694	0.0627	2.3100e-003	5.4670	8.0000e-004	5.4678	0.5548	7.7000e-004	0.5556	0.0000	219.4397	219.4397	4.3900e-003	0.0000	219.5494
Worker	0.3985	0.3386	3.1382	0.0105	127.3673	6.9200e-003	127.3742	12.8802	6.3700e-003	12.8865	0.0000	947.5538	947.5538	0.0236	0.0000	948.1448
Total	0.4078	0.6091	3.2012	0.0128	132.8570	7.7200e-003	132.8647	13.4373	7.1400e-003	13.4444	0.0000	1,167.9078	1,167.9078	0.0281	0.0000	1,168.6090

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	0.0945	0.8866	3.6104	6.7300e-003		0.0109	0.0109		0.0109	0.0109	0.0000	587.6188	587.6188	0.1805	0.0000	592.1314
Total	0.0945	0.8866	3.6104	6.7300e-003		0.0109	0.0109		0.0109	0.0109	0.0000	587.6188	587.6188	0.1805	0.0000	592.1314

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3.6 7 VP Inv BESS - 2023**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	4.0000e-005	1.1200e-003	2.6000e-004	1.0000e-005	3.0300e-003	0.0000	3.0400e-003	3.4000e-004	0.0000	3.5000e-004	0.0000	0.9143	0.9143	2.0000e-005	0.0000	0.9148
Vendor	9.2600e-003	0.2694	0.0627	2.3100e-003	0.7277	8.0000e-004	0.7286	0.0826	7.7000e-004	0.0834	0.0000	219.4397	219.4397	4.3900e-003	0.0000	219.5494
Worker	0.3985	0.3386	3.1382	0.0105	16.7852	6.9200e-003	16.7921	1.8624	6.3700e-003	1.8687	0.0000	947.5538	947.5538	0.0236	0.0000	948.1448
Total	0.4078	0.6091	3.2012	0.0128	17.5160	7.7200e-003	17.5237	1.9453	7.1400e-003	1.9525	0.0000	1,167.9078	1,167.9078	0.0281	0.0000	1,168.6090

3.7 3 Arica Inv BESS - 2023**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	0.2471	2.4248	2.7099	7.0700e-003		0.0976	0.0976		0.0905	0.0905	0.0000	617.5138	617.5138	0.1902	0.0000	622.2681
Total	0.2471	2.4248	2.7099	7.0700e-003		0.0976	0.0976		0.0905	0.0905	0.0000	617.5138	617.5138	0.1902	0.0000	622.2681

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3.7 3 Arica Inv BESS - 2023**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	4.0000e-005	1.1200e-003	2.6000e-004	1.0000e-005	0.0228	0.0000	0.0228	2.3100e-003	0.0000	2.3100e-003	0.0000	0.9143	0.9143	2.0000e-005	0.0000	0.9148
Vendor	9.2600e-003	0.2694	0.0627	2.3100e-003	5.4670	8.0000e-004	5.4678	0.5548	7.7000e-004	0.5556	0.0000	219.4397	219.4397	4.3900e-003	0.0000	219.5494
Worker	0.3985	0.3386	3.1382	0.0105	127.3673	6.9200e-003	127.3742	12.8802	6.3700e-003	12.8865	0.0000	947.5538	947.5538	0.0236	0.0000	948.1448
Total	0.4078	0.6091	3.2012	0.0128	132.8570	7.7200e-003	132.8647	13.4373	7.1400e-003	13.4444	0.0000	1,167.9078	1,167.9078	0.0281	0.0000	1,168.6090

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	0.0987	0.9047	3.8672	7.0700e-003		0.0114	0.0114		0.0114	0.0114	0.0000	617.5130	617.5130	0.1902	0.0000	622.2673
Total	0.0987	0.9047	3.8672	7.0700e-003		0.0114	0.0114		0.0114	0.0114	0.0000	617.5130	617.5130	0.1902	0.0000	622.2673

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3.7 3 Arica Inv BESS - 2023**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	4.0000e-005	1.1200e-003	2.6000e-004	1.0000e-005	3.0300e-003	0.0000	3.0400e-003	3.4000e-004	0.0000	3.5000e-004	0.0000	0.9143	0.9143	2.0000e-005	0.0000	0.9148
Vendor	9.2600e-003	0.2694	0.0627	2.3100e-003	0.7277	8.0000e-004	0.7286	0.0826	7.7000e-004	0.0834	0.0000	219.4397	219.4397	4.3900e-003	0.0000	219.5494
Worker	0.3985	0.3386	3.1382	0.0105	16.7852	6.9200e-003	16.7921	1.8624	6.3700e-003	1.8687	0.0000	947.5538	947.5538	0.0236	0.0000	948.1448
Total	0.4078	0.6091	3.2012	0.0128	17.5160	7.7200e-003	17.5237	1.9453	7.1400e-003	1.9525	0.0000	1,167.9078	1,167.9078	0.0281	0.0000	1,168.6090

3.8 8 VP Commissioning - 2023**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	0.0331	0.2548	0.3246	5.3000e-004		0.0121	0.0121		0.0119	0.0119	0.0000	44.3860	44.3860	4.4400e-003	0.0000	44.4970
Total	0.0331	0.2548	0.3246	5.3000e-004		0.0121	0.0121		0.0119	0.0119	0.0000	44.3860	44.3860	4.4400e-003	0.0000	44.4970

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3.8 8 VP Commissioning - 2023**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	4.0000e-005	1.1200e-003	2.6000e-004	1.0000e-005	0.0228	0.0000	0.0228	2.3100e-003	0.0000	2.3100e-003	0.0000	0.9143	0.9143	2.0000e-005	0.0000	0.9148
Vendor	7.7200e-003	0.2245	0.0522	1.9200e-003	4.5558	6.7000e-004	4.5565	0.4623	6.4000e-004	0.4630	0.0000	182.8664	182.8664	3.6600e-003	0.0000	182.9578
Worker	0.2135	0.1814	1.6812	5.6100e-003	68.2325	3.7100e-003	68.2362	6.9001	3.4100e-003	6.9035	0.0000	507.6181	507.6181	0.0127	0.0000	507.9347
Total	0.2212	0.4070	1.7337	7.5400e-003	72.8111	4.3800e-003	72.8154	7.3647	4.0500e-003	7.3688	0.0000	691.3988	691.3988	0.0163	0.0000	691.8073

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	6.4200e-003	0.0685	0.3357	5.3000e-004		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	44.3859	44.3859	4.4400e-003	0.0000	44.4970
Total	6.4200e-003	0.0685	0.3357	5.3000e-004		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	44.3859	44.3859	4.4400e-003	0.0000	44.4970

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3.8 8 VP Commissioning - 2023**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	4.0000e-005	1.1200e-003	2.6000e-004	1.0000e-005	3.0300e-003	0.0000	3.0400e-003	3.4000e-004	0.0000	3.5000e-004	0.0000	0.9143	0.9143	2.0000e-005	0.0000	0.9148
Vendor	7.7200e-003	0.2245	0.0522	1.9200e-003	0.6065	6.7000e-004	0.6071	0.0689	6.4000e-004	0.0695	0.0000	182.8664	182.8664	3.6600e-003	0.0000	182.9578
Worker	0.2135	0.1814	1.6812	5.6100e-003	8.9921	3.7100e-003	8.9958	0.9977	3.4100e-003	1.0011	0.0000	507.6181	507.6181	0.0127	0.0000	507.9347
Total	0.2212	0.4070	1.7337	7.5400e-003	9.6016	4.3800e-003	9.6059	1.0669	4.0500e-003	1.0710	0.0000	691.3988	691.3988	0.0163	0.0000	691.8073

3.9 4 Arica Commissioning - 2023**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	0.0331	0.2548	0.3246	5.3000e-004		0.0121	0.0121		0.0119	0.0119	0.0000	44.3860	44.3860	4.4400e-003	0.0000	44.4970
Total	0.0331	0.2548	0.3246	5.3000e-004		0.0121	0.0121		0.0119	0.0119	0.0000	44.3860	44.3860	4.4400e-003	0.0000	44.4970

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3.9 4 Arica Commissioning - 2023**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	4.0000e-005	1.1200e-003	2.6000e-004	1.0000e-005	0.0228	0.0000	0.0228	2.3100e-003	0.0000	2.3100e-003	0.0000	0.9143	0.9143	2.0000e-005	0.0000	0.9148
Vendor	7.7200e-003	0.2245	0.0522	1.9200e-003	4.5558	6.7000e-004	4.5565	0.4623	6.4000e-004	0.4630	0.0000	182.8664	182.8664	3.6600e-003	0.0000	182.9578
Worker	0.2135	0.1814	1.6812	5.6100e-003	68.2325	3.7100e-003	68.2362	6.9001	3.4100e-003	6.9035	0.0000	507.6181	507.6181	0.0127	0.0000	507.9347
Total	0.2212	0.4070	1.7337	7.5400e-003	72.8111	4.3800e-003	72.8154	7.3647	4.0500e-003	7.3688	0.0000	691.3988	691.3988	0.0163	0.0000	691.8073

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	6.4200e-003	0.0685	0.3357	5.3000e-004		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	44.3859	44.3859	4.4400e-003	0.0000	44.4970
Total	6.4200e-003	0.0685	0.3357	5.3000e-004		7.1000e-004	7.1000e-004		7.1000e-004	7.1000e-004	0.0000	44.3859	44.3859	4.4400e-003	0.0000	44.4970

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3.9 4 Arica Commissioning - 2023**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	4.0000e-005	1.1200e-003	2.6000e-004	1.0000e-005	3.0300e-003	0.0000	3.0400e-003	3.4000e-004	0.0000	3.5000e-004	0.0000	0.9143	0.9143	2.0000e-005	0.0000	0.9148
Vendor	7.7200e-003	0.2245	0.0522	1.9200e-003	0.6065	6.7000e-004	0.6071	0.0689	6.4000e-004	0.0695	0.0000	182.8664	182.8664	3.6600e-003	0.0000	182.9578
Worker	0.2135	0.1814	1.6812	5.6100e-003	8.9921	3.7100e-003	8.9958	0.9977	3.4100e-003	1.0011	0.0000	507.6181	507.6181	0.0127	0.0000	507.9347
Total	0.2212	0.4070	1.7337	7.5400e-003	9.6016	4.3800e-003	9.6059	1.0669	4.0500e-003	1.0710	0.0000	691.3988	691.3988	0.0163	0.0000	691.8073

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1852	1.2682	3.4615	0.0167	1.3576	9.9500e-003	1.3675	0.3640	9.3200e-003	0.3733	0.0000	1,540.2197	1,540.2197	0.0532	0.0000	1,541.5491
Unmitigated	0.1852	1.2682	3.4615	0.0167	1.3576	9.9500e-003	1.3675	0.3640	9.3200e-003	0.3733	0.0000	1,540.2197	1,540.2197	0.0532	0.0000	1,541.5491

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	174.24	174.24	174.24	3,548,727	3,548,727
Total	174.24	174.24	174.24	3,548,727	3,548,727

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	60.00	60.00	60.00	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.545862	0.034394	0.171599	0.103299	0.016338	0.005100	0.010433	0.099439	0.001620	0.001949	0.008107	0.000868	0.000992

5.0 Energy Detail

Historical Energy Use: N

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5.1 Mitigation Measures Energy

[illegible]

5.2 Energy by Land Use - NaturalGas

Unmitigated

[illegible]

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5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	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			
General Light Industry	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			
General Light Industry	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	0.1483	0.0146	1.6008	1.2000e-004		5.7100e-003	5.7100e-003		5.7100e-003	5.7100e-003	0.0000	3.1134	3.1134	8.1700e-003	0.0000	3.3176
Unmitigated	0.1483	0.0146	1.6008	1.2000e-004		5.7100e-003	5.7100e-003		5.7100e-003	5.7100e-003	0.0000	3.1134	3.1134	8.1700e-003	0.0000	3.3176

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6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1483	0.0146	1.6008	1.2000e-004		5.7100e-003	5.7100e-003		5.7100e-003	5.7100e-003	0.0000	3.1134	3.1134	8.1700e-003	0.0000	3.3176
Total	0.1483	0.0146	1.6008	1.2000e-004		5.7100e-003	5.7100e-003		5.7100e-003	5.7100e-003	0.0000	3.1134	3.1134	8.1700e-003	0.0000	3.3176

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1483	0.0146	1.6008	1.2000e-004		5.7100e-003	5.7100e-003		5.7100e-003	5.7100e-003	0.0000	3.1134	3.1134	8.1700e-003	0.0000	3.3176
Total	0.1483	0.0146	1.6008	1.2000e-004		5.7100e-003	5.7100e-003		5.7100e-003	5.7100e-003	0.0000	3.1134	3.1134	8.1700e-003	0.0000	3.3176

7.0 Water Detail

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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			
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	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

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8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	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			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

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	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	- 17,240.00 00	0.0000	0.0000	- 17,240.00 00

11.1 Vegetation Land Change**Vegetation Type**

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Grassland	4000 / 0	- 17,240.00 00	0.0000	0.0000	- 17,240.00 00
Total		- 17,240.00 00	0.0000	0.0000	- 17,240.00 00

Arica and Victory Pass Solar - Mojave Desert Air Basin, Winter

Arica and Victory Pass Solar
Mojave Desert Air Basin, Winter**1.0 Project Characteristics**

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	174,240.00	1000sqft	4,000.00	174,240,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2023
Utility Company					
CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0

1.3 User Entered Comments & Non-Default Data

Arica and Victory Pass Solar - Mojave Desert Air Basin, Winter

Project Characteristics - Version: Allowing overlap

Land Use - Approx 4000 ac combined.

Construction Phase - Sequence here allows overlap.

Off-road Equipment - Ph 1 approx 31 pcs equipment

Off-road Equipment - Ph 2 approx 66 pcs equipment

Off-road Equipment - Ph 3 approx 50 pcs equipment

Off-road Equipment - Ph 4 approx 3 pcs equipment

Off-road Equipment - Ph 5 approx 29 pcs equipment

Off-road Equipment - Ph 6 approx 66 pcs equipment

Off-road Equipment - Ph 7 approx 45 pcs equipment

Off-road Equipment - Ph 8 approx 3 pcs equipment

Trips and VMT - Trip length 60 mil each way per Transpo Analysis. Arica approx 5400 HDT round trips. VP approx 4600 HDT round trips.

On-road Fugitive Dust - Typical 6 mi or 10 pct of length on unpaved surfaces, gravel surface 6 pct silt content

Vehicle Trips - Trip Rate 0.001 per 1000sqft per day: fewer than 110 daily operational trips

Consumer Products - no consumer products

Area Coating - minimal or no coatings needed

Energy Use - energy use not applicable

Water And Wastewater - interior water consumption factors not applicable

Solid Waste - light industrial solid waste factors not applicable

Land Use Change - up to 4000 acres loss of natural carbon uptake

Construction Off-road Equipment Mitigation - Tier 4 offroad; water 2x daily is 55% effective PM10 control per Rule 403; suppressant is 84% effective per Table XI-D; unpaved road speed of 15 mph and no visible dust

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	32.00

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	60.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	14.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	44.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	18.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	20.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	42.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	32.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	155,000.00	140.00
tblConstructionPhase	NumDays	155,000.00	100.00
tblConstructionPhase	NumDays	155,000.00	80.00
tblConstructionPhase	NumDays	155,000.00	80.00

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tblConstructionPhase	NumDays	155,000.00	100.00
tblConstructionPhase	NumDays	155,000.00	100.00
tblConsumerProducts	ROG_EF	2.14E-05	0
tblEnergyUse	LightingElect	2.93	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	T24E	2.20	0.00
tblEnergyUse	T24NG	15.36	0.00
tblOffRoadEquipment	HorsePower	221.00	180.00
tblOffRoadEquipment	HorsePower	221.00	180.00
tblOffRoadEquipment	HorsePower	221.00	180.00
tblOffRoadEquipment	HorsePower	221.00	180.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	MaterialSiltContent	8.50	6.00
tblOnRoadDust	MaterialSiltContent	8.50	6.00
tblOnRoadDust	MaterialSiltContent	8.50	6.00
tblOnRoadDust	MaterialSiltContent	8.50	6.00
tblOnRoadDust	MaterialSiltContent	8.50	6.00
tblOnRoadDust	MaterialSiltContent	8.50	6.00
tblOnRoadDust	MaterialSiltContent	8.50	6.00
tblOnRoadDust	MaterialSiltContent	8.50	6.00
tblOnRoadDust	MeanVehicleSpeed	40.00	25.00
tblOnRoadDust	MeanVehicleSpeed	40.00	25.00

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tblOnRoadDust	MeanVehicleSpeed	40.00	25.00
tblOnRoadDust	MeanVehicleSpeed	40.00	25.00
tblOnRoadDust	MeanVehicleSpeed	40.00	25.00
tblOnRoadDust	MeanVehicleSpeed	40.00	25.00
tblOnRoadDust	MeanVehicleSpeed	40.00	25.00
tblOnRoadDust	MeanVehicleSpeed	40.00	25.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	216,057.60	0.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00

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tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripLength	6.60	60.00
tblTripsAndVMT	VendorTripLength	6.60	60.00
tblTripsAndVMT	VendorTripLength	6.60	60.00
tblTripsAndVMT	VendorTripLength	6.60	60.00
tblTripsAndVMT	VendorTripLength	6.60	60.00
tblTripsAndVMT	VendorTripLength	6.60	60.00
tblTripsAndVMT	VendorTripLength	6.60	60.00
tblTripsAndVMT	VendorTripLength	6.60	60.00
tblTripsAndVMT	VendorTripLength	6.60	60.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	28,558.00	40.00
tblTripsAndVMT	VendorTripNumber	28,558.00	40.00
tblTripsAndVMT	VendorTripNumber	28,558.00	30.00
tblTripsAndVMT	VendorTripNumber	28,558.00	30.00

Arica and Victory Pass Solar - Mojave Desert Air Basin, Winter

tblTripsAndVMT	VendorTripNumber	28,558.00	20.00
tblTripsAndVMT	VendorTripNumber	28,558.00	20.00
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	WorkerTripLength	16.80	60.00
tblTripsAndVMT	WorkerTripLength	16.80	60.00
tblTripsAndVMT	WorkerTripLength	16.80	60.00
tblTripsAndVMT	WorkerTripLength	16.80	60.00
tblTripsAndVMT	WorkerTripLength	16.80	60.00
tblTripsAndVMT	WorkerTripLength	16.80	60.00
tblTripsAndVMT	WorkerTripLength	16.80	60.00
tblTripsAndVMT	WorkerTripLength	16.80	60.00
tblTripsAndVMT	WorkerTripNumber	78.00	300.00
tblTripsAndVMT	WorkerTripNumber	73.00	250.00
tblTripsAndVMT	WorkerTripNumber	73,181.00	1,040.00
tblTripsAndVMT	WorkerTripNumber	73,181.00	1,020.00
tblTripsAndVMT	WorkerTripNumber	73,181.00	700.00
tblTripsAndVMT	WorkerTripNumber	73,181.00	700.00
tblTripsAndVMT	WorkerTripNumber	73,181.00	300.00
tblTripsAndVMT	WorkerTripNumber	73,181.00	300.00
tblVehicleTrips	CC_TL	6.60	60.00

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tblVehicleTrips	CNW_TL	6.60	60.00
tblVehicleTrips	CW_TL	14.70	60.00
tblVehicleTrips	ST_TR	1.32	1.0000e-003
tblVehicleTrips	SU_TR	0.68	1.0000e-003
tblVehicleTrips	WD_TR	6.97	1.0000e-003
tblWater	IndoorWaterUseRate	40,293,000,000.00	0.00

2.0 Emissions Summary

Arica and Victory Pass Solar - Mojave Desert 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					
2022	59.0708	296.0346	443.5530	1.4207	10,633.01 10	11.3930	10,644.40 40	1,074.289 7	10.5297	1,084.8195	0.0000	140,859.6 571	140,859.6 571	17.2181	0.0000	141,290.1 097
2023	44.7263	199.9489	346.8232	1.1771	8,994.831 1	7.3575	9,002.188 6	908.7822	6.8092	915.5914	0.0000	116,676.0 075	116,676.0 075	14.1767	0.0000	117,030.4 235
Maximum	59.0708	296.0346	443.5530	1.4207	10,633.01 10	11.3930	10,644.40 40	1,074.289 7	10.5297	1,084.8195	0.0000	140,859.6 571	140,859.6 571	17.2181	0.0000	141,290.1 097

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	lb/day										lb/day					
2022	42.4079	106.6930	511.5460	1.4207	1,396.126 8	1.4152	1,397.541 9	153.9775	1.3695	155.3470	0.0000	140,859.6 570	140,859.6 570	17.2181	0.0000	141,290.1 096
2023	33.9773	83.4003	410.9492	1.1771	1,181.045 0	1.1448	1,182.189 8	130.2596	1.1087	131.3684	0.0000	116,676.0 075	116,676.0 075	14.1767	0.0000	117,030.4 234
Maximum	42.4079	106.6930	511.5460	1.4207	1,396.126 8	1.4152	1,397.541 9	153.9775	1.3695	155.3470	0.0000	140,859.6 570	140,859.6 570	17.2181	0.0000	141,290.1 096

	ROG	NOx	CO	SO2	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	26.41	61.67	-16.72	0.00	86.87	86.35	86.87	85.67	85.71	85.67	0.00	0.00	0.00	0.00	0.00	0.00

Arica and Victory Pass Solar - Mojave Desert Air Basin, Winter

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.6475	0.1619	17.7870	1.3300e-003		0.0634	0.0634		0.0634	0.0634		38.1329	38.1329	0.1000		40.6332
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	1.0094	6.7684	17.9138	0.0897	7.5960	0.0548	7.6508	2.0336	0.0513	2.0849		9,148.1598	9,148.1598	0.3217		9,156.2028
Total	2.6568	6.9303	35.7008	0.0910	7.5960	0.1182	7.7142	2.0336	0.1147	2.1483		9,186.2927	9,186.2927	0.4217	0.0000	9,196.8360

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	1.6475	0.1619	17.7870	1.3300e-003		0.0634	0.0634		0.0634	0.0634		38.1329	38.1329	0.1000		40.6332
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	1.0094	6.7684	17.9138	0.0897	7.5960	0.0548	7.6508	2.0336	0.0513	2.0849		9,148.1598	9,148.1598	0.3217		9,156.2028
Total	2.6568	6.9303	35.7008	0.0910	7.5960	0.1182	7.7142	2.0336	0.1147	2.1483		9,186.2927	9,186.2927	0.4217	0.0000	9,196.8360

Arica and Victory Pass Solar - Mojave Desert Air Basin, Winter

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

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	1 Arica Mobilization Prep	Trenching	6/1/2022	7/26/2022	5	40	1 Arica Mobilization Prep
2	5 VP Mobilization Prep	Trenching	6/1/2022	7/26/2022	5	40	5 VP Mobilization Prep
3	2 Arica Electrical PV Install	Building Construction	7/31/2022	2/10/2023	5	140	2 Arica Electrical PV Install
4	6 VP Electrical PV Install	Building Construction	7/31/2022	12/16/2022	5	100	6 VP Electrical PV Install
5	7 VP Inv BESS	Building Construction	1/1/2023	4/21/2023	5	80	7 VP Inv BESS
6	3 Arica Inv BESS	Building Construction	3/1/2023	6/20/2023	5	80	3 Arica Inv BESS
7	8 VP Commissioning	Building Construction	5/1/2023	9/15/2023	5	100	8 VP Commissioning
8	4 Arica Commissioning	Building Construction	7/1/2023	11/17/2023	5	100	4 Arica Commissioning

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
1 Arica Mobilization Prep	Forklifts	2	7.00	89	0.20
1 Arica Mobilization Prep	Graders	6	7.00	187	0.41

Arica and Victory Pass Solar - Mojave Desert Air Basin, Winter

1 Arica Mobilization Prep	Rollers	6	7.00	80	0.38
1 Arica Mobilization Prep	Rubber Tired Dozers	4	8.00	247	0.40
1 Arica Mobilization Prep	Skid Steer Loaders	9	7.00	65	0.37
1 Arica Mobilization Prep	Tractors/Loaders/Backhoes	4	8.00	97	0.37
5 VP Mobilization Prep	Forklifts	2	7.00	89	0.20
5 VP Mobilization Prep	Graders	4	7.00	187	0.41
5 VP Mobilization Prep	Rollers	6	7.00	80	0.38
5 VP Mobilization Prep	Rubber Tired Dozers	4	7.00	247	0.40
5 VP Mobilization Prep	Skid Steer Loaders	9	7.00	65	0.37
5 VP Mobilization Prep	Tractors/Loaders/Backhoes	4	7.00	97	0.37
2 Arica Electrical PV Install	Aerial Lifts	8	7.00	63	0.31
2 Arica Electrical PV Install	Bore/Drill Rigs	15	7.00	180	0.50
2 Arica Electrical PV Install	Cranes	3	7.00	231	0.29
2 Arica Electrical PV Install	Forklifts	10	8.00	89	0.20
2 Arica Electrical PV Install	Generator Sets	1	8.00	84	0.74
2 Arica Electrical PV Install	Graders	4	7.00	187	0.41
2 Arica Electrical PV Install	Rollers	4	7.00	80	0.38
2 Arica Electrical PV Install	Rubber Tired Dozers	2	7.00	247	0.40
2 Arica Electrical PV Install	Skid Steer Loaders	6	7.00	65	0.37
2 Arica Electrical PV Install	Tractors/Loaders/Backhoes	8	7.00	97	0.37
2 Arica Electrical PV Install	Trenchers	3	7.00	78	0.50
2 Arica Electrical PV Install	Welders	2	8.00	46	0.45
6 VP Electrical PV Install	Aerial Lifts	8	7.00	63	0.31
6 VP Electrical PV Install	Bore/Drill Rigs	15	7.00	180	0.50
6 VP Electrical PV Install	Cranes	3	7.00	231	0.29
6 VP Electrical PV Install	Forklifts	10	8.00	89	0.20
6 VP Electrical PV Install	Generator Sets	1	8.00	84	0.74

Arica and Victory Pass Solar - Mojave Desert Air Basin, Winter

6 VP Electrical PV Install	Graders	4	7.00	187	0.41
6 VP Electrical PV Install	Rollers	4	7.00	80	0.38
6 VP Electrical PV Install	Rubber Tired Dozers	2	7.00	247	0.40
6 VP Electrical PV Install	Skid Steer Loaders	6	7.00	65	0.37
6 VP Electrical PV Install	Tractors/Loaders/Backhoes	8	7.00	97	0.37
6 VP Electrical PV Install	Trenchers	3	7.00	78	0.50
6 VP Electrical PV Install	Welders	2	8.00	46	0.45
7 VP Inv BESS	Aerial Lifts	8	7.00	63	0.31
7 VP Inv BESS	Bore/Drill Rigs	15	7.00	180	0.50
7 VP Inv BESS	Cranes	3	7.00	231	0.29
7 VP Inv BESS	Forklifts	8	8.00	89	0.20
7 VP Inv BESS	Generator Sets	1	8.00	84	0.74
7 VP Inv BESS	Skid Steer Loaders	6	7.00	65	0.37
7 VP Inv BESS	Tractors/Loaders/Backhoes	2	7.00	97	0.37
7 VP Inv BESS	Welders	2	8.00	46	0.45
3 Arica Inv BESS	Aerial Lifts	8	7.00	63	0.31
3 Arica Inv BESS	Bore/Drill Rigs	15	7.00	180	0.50
3 Arica Inv BESS	Cranes	3	7.00	231	0.29
3 Arica Inv BESS	Forklifts	10	8.00	89	0.20
3 Arica Inv BESS	Generator Sets	1	8.00	84	0.74
3 Arica Inv BESS	Skid Steer Loaders	6	7.00	65	0.37
3 Arica Inv BESS	Tractors/Loaders/Backhoes	4	7.00	97	0.37
3 Arica Inv BESS	Welders	2	8.00	46	0.45
8 VP Commissioning	Cranes	1	0.00	231	0.29
8 VP Commissioning	Forklifts	1	8.00	89	0.20
8 VP Commissioning	Generator Sets	1	8.00	84	0.74
8 VP Commissioning	Tractors/Loaders/Backhoes	1	0.00	97	0.37

Arica and Victory Pass Solar - Mojave Desert Air Basin, Winter

8 VP Commissioning	Welders	1	8.00	46	0.45
4 Arica Commissioning	Cranes	1	0.00	231	0.29
4 Arica Commissioning	Forklifts	1	8.00	89	0.20
4 Arica Commissioning	Generator Sets	1	8.00	84	0.74
4 Arica Commissioning	Tractors/Loaders/Backhoes	1	0.00	97	0.37
4 Arica Commissioning	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
1 Arica Mobilization Prep	31	300.00	20.00	10.00	60.00	60.00	60.00	LD_Mix	HHDT	HHDT
5 VP Mobilization Prep	29	250.00	20.00	10.00	60.00	60.00	60.00	LD_Mix	HHDT	HHDT
2 Arica Electrical PV Install	66	1,040.00	40.00	10.00	60.00	60.00	60.00	LD_Mix	HHDT	HHDT
6 VP Electrical PV Install	66	1,020.00	40.00	10.00	60.00	60.00	60.00	LD_Mix	HHDT	HHDT
7 VP Inv BESS	45	700.00	30.00	10.00	60.00	60.00	60.00	LD_Mix	HHDT	HHDT
3 Arica Inv BESS	49	700.00	30.00	10.00	60.00	60.00	60.00	LD_Mix	HHDT	HHDT
8 VP Commissioning	5	300.00	20.00	10.00	60.00	60.00	60.00	LD_Mix	HHDT	HHDT
4 Arica Commissioning	5	300.00	20.00	10.00	60.00	60.00	60.00	LD_Mix	HHDT	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Arica and Victory Pass Solar - Mojave Desert Air Basin, Winter

3.2 1 Arica Mobilization Prep - 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	7.8059	87.6993	55.0290	0.1141		3.8240	3.8240		3.5181	3.5181		11,050.99 18	11,050.99 18	3.5741		11,140.34 46
Total	7.8059	87.6993	55.0290	0.1141		3.8240	3.8240		3.5181	3.5181		11,050.99 18	11,050.99 18	3.5741		11,140.34 46

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	2.6200e-003	0.0889	0.0157	4.9000e-004	1.2437	3.1000e-004	1.2441	0.1261	3.0000e-004	0.1264		51.3089	51.3089	1.4600e-003		51.3455
Vendor	0.2097	7.1149	1.2565	0.0392	99.4995	0.0248	99.5243	10.0841	0.0237	10.1078		4,104.712 2	4,104.712 2	0.1170		4,107.637 1
Worker	5.0958	3.7610	34.2616	0.1131	1,490.397 6	0.0764	1,490.474 1	150.5617	0.0704	150.6321		11,275.66 56	11,275.66 56	0.3012		11,283.19 45
Total	5.3081	10.9649	35.5338	0.1527	1,591.140 8	0.1015	1,591.242 4	160.7719	0.0944	160.8663		15,431.68 67	15,431.68 67	0.4196		15,442.17 70

Arica and Victory Pass Solar - Mojave Desert Air Basin, Winter

3.2 1 Arica Mobilization Prep - 2022**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5988	14.3436	65.1278	0.1141		0.1865	0.1865		0.1865	0.1865	0.0000	11,050.99 18	11,050.99 18	3.5741		11,140.34 46
Total	1.5988	14.3436	65.1278	0.1141		0.1865	0.1865		0.1865	0.1865	0.0000	11,050.99 18	11,050.99 18	3.5741		11,140.34 46

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	2.6200e-003	0.0889	0.0157	4.9000e-004	0.1648	3.1000e-004	0.1651	0.0186	3.0000e-004	0.0188		51.3089	51.3089	1.4600e-003		51.3455
Vendor	0.2097	7.1149	1.2565	0.0392	13.1811	0.0248	13.2059	1.4838	0.0237	1.5075		4,104.712 2	4,104.712 2	0.1170		4,107.637 1
Worker	5.0958	3.7610	34.2616	0.1131	195.6228	0.0764	195.6992	21.5575	0.0704	21.6279		11,275.66 56	11,275.66 56	0.3012		11,283.19 45
Total	5.3081	10.9649	35.5338	0.1527	208.9687	0.1015	209.0703	23.0599	0.0944	23.1543		15,431.68 67	15,431.68 67	0.4196		15,442.17 70

Arica and Victory Pass Solar - Mojave Desert Air Basin, Winter

3.3 5 VP Mobilization Prep - 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	6.5788	73.2638	49.1059	0.0967		3.2777	3.2777		3.0154	3.0154		9,364.6165	9,364.6165	3.0287		9,440.3342
Total	6.5788	73.2638	49.1059	0.0967		3.2777	3.2777		3.0154	3.0154		9,364.6165	9,364.6165	3.0287		9,440.3342

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	2.6200e-003	0.0889	0.0157	4.9000e-004	1.2437	3.1000e-004	1.2441	0.1261	3.0000e-004	0.1264		51.3089	51.3089	1.4600e-003		51.3455
Vendor	0.2097	7.1149	1.2565	0.0392	99.4995	0.0248	99.5243	10.0841	0.0237	10.1078		4,104.7122	4,104.7122	0.1170		4,107.6371
Worker	4.2465	3.1342	28.5513	0.0943	1,241.9980	0.0637	1,242.0617	125.4681	0.0587	125.5268		9,396.3880	9,396.3880	0.2510		9,402.6621
Total	4.4588	10.3380	29.8236	0.1339	1,342.7412	0.0888	1,342.8300	135.6783	0.0827	135.7609		13,552.4091	13,552.4091	0.3694		13,561.6446

Arica and Victory Pass Solar - Mojave Desert Air Basin, Winter

3.3 5 VP Mobilization Prep - 2022**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3855	13.4195	56.8339	0.0967		0.1580	0.1580		0.1580	0.1580	0.0000	9,364.6165	9,364.6165	3.0287		9,440.3341
Total	1.3855	13.4195	56.8339	0.0967		0.1580	0.1580		0.1580	0.1580	0.0000	9,364.6165	9,364.6165	3.0287		9,440.3341

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	2.6200e-003	0.0889	0.0157	4.9000e-004	0.1648	3.1000e-004	0.1651	0.0186	3.0000e-004	0.0188		51.3089	51.3089	1.4600e-003		51.3455
Vendor	0.2097	7.1149	1.2565	0.0392	13.1811	0.0248	13.2059	1.4838	0.0237	1.5075		4,104.7122	4,104.7122	0.1170		4,107.6371
Worker	4.2465	3.1342	28.5513	0.0943	163.0190	0.0637	163.0827	17.9646	0.0587	18.0233		9,396.3880	9,396.3880	0.2510		9,402.6621
Total	4.4588	10.3380	29.8236	0.1339	176.3649	0.0888	176.4537	19.4670	0.0827	19.5496		13,552.4091	13,552.4091	0.3694		13,561.6446

Arica and Victory Pass Solar - Mojave Desert Air Basin, Winter

3.4 2 Arica Electrical PV Install - 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	11.6196	120.8442	101.6267	0.2436		5.3844	5.3844		4.9756	4.9756		23,489.69 40	23,489.69 40	7.3406		23,673.20 87
Total	11.6196	120.8442	101.6267	0.2436		5.3844	5.3844		4.9756	4.9756		23,489.69 40	23,489.69 40	7.3406		23,673.20 87

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	7.5000e-004	0.0254	4.4900e-003	1.4000e-004	0.4520	9.0000e-005	0.4521	0.0458	8.0000e-005	0.0458		14.6597	14.6597	4.2000e-004		14.6701
Vendor	0.4194	14.2298	2.5131	0.0783	198.9989	0.0496	199.0485	20.1682	0.0475	20.2157		8,209.424 4	8,209.424 4	0.2340		8,215.274 1
Worker	17.6654	13.0382	118.7734	0.3921	5,166.711 7	0.2650	5,166.976 7	521.9473	0.2441	522.1914		39,088.97 41	39,088.97 41	1.0440		39,115.07 44
Total	18.0855	27.2934	121.2910	0.4705	5,366.162 7	0.3146	5,366.477 3	542.1613	0.2916	542.4528		47,313.05 81	47,313.05 81	1.2784		47,345.01 86

Arica and Victory Pass Solar - Mojave Desert Air Basin, Winter

3.4 2 Arica Electrical PV Install - 2022**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	3.2882	26.1734	135.6232	0.2436		0.3955	0.3955		0.3955	0.3955	0.0000	23,489.69 40	23,489.69 40	7.3406		23,673.20 87
Total	3.2882	26.1734	135.6232	0.2436		0.3955	0.3955		0.3955	0.3955	0.0000	23,489.69 40	23,489.69 40	7.3406		23,673.20 87

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	7.5000e-004	0.0254	4.4900e-003	1.4000e-004	0.0597	9.0000e-005	0.0598	6.6500e-003	8.0000e-005	6.7400e-003		14.6597	14.6597	4.2000e-004		14.6701
Vendor	0.4194	14.2298	2.5131	0.0783	26.3623	0.0496	26.4119	2.9676	0.0475	3.0151		8,209.424 4	8,209.424 4	0.2340		8,215.274 1
Worker	17.6654	13.0382	118.7734	0.3921	678.1591	0.2650	678.4240	74.7327	0.2441	74.9767		39,088.97 41	39,088.97 41	1.0440		39,115.07 44
Total	18.0855	27.2934	121.2910	0.4705	704.5810	0.3146	704.8957	77.7070	0.2916	77.9986		47,313.05 81	47,313.05 81	1.2784		47,345.01 86

Arica and Victory Pass Solar - Mojave Desert Air Basin, Winter

3.4 2 Arica Electrical PV Install - 2023**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	10.6942	108.8749	100.2039	0.2439		4.6925	4.6925		4.3362	4.3362		23,511.3489	23,511.3489	7.3410		23,694.8744
Total	10.6942	108.8749	100.2039	0.2439		4.6925	4.6925		4.3362	4.3362		23,511.3489	23,511.3489	7.3410		23,694.8744

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	5.6000e-004	0.0157	3.9000e-003	1.4000e-004	1.6549	5.0000e-005	1.6550	0.1668	5.0000e-005	0.1669		14.2799	14.2799	3.1000e-004		14.2876
Vendor	0.3144	8.8106	2.1861	0.0763	198.9989	0.0268	199.0258	20.1682	0.0257	20.1939		7,996.7681	7,996.7681	0.1717		8,001.0603
Worker	16.6007	11.7147	108.3216	0.3772	5,166.7117	0.2571	5,166.9688	521.9473	0.2367	522.1840		37,617.8488	37,617.8488	0.9324		37,641.1599
Total	16.9156	20.5411	110.5116	0.4536	5,367.3656	0.2839	5,367.6495	542.2823	0.2625	542.5448		45,628.8968	45,628.8968	1.1044		45,656.5078

Arica and Victory Pass Solar - Mojave Desert Air Basin, Winter

3.4 2 Arica Electrical PV Install - 2023**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	3.2882	26.1734	135.6232	0.2439		0.3955	0.3955		0.3955	0.3955	0.0000	23,511.3489	23,511.3489	7.3410		23,694.8744
Total	3.2882	26.1734	135.6232	0.2439		0.3955	0.3955		0.3955	0.3955	0.0000	23,511.3489	23,511.3489	7.3410		23,694.8744

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	5.6000e-004	0.0157	3.9000e-003	1.4000e-004	0.2163	5.0000e-005	0.2164	0.0235	5.0000e-005	0.0236		14.2799	14.2799	3.1000e-004		14.2876
Vendor	0.3144	8.8106	2.1861	0.0763	26.3623	0.0268	26.3891	2.9676	0.0257	2.9933		7,996.7681	7,996.7681	0.1717		8,001.0603
Worker	16.6007	11.7147	108.3216	0.3772	678.1591	0.2571	678.4161	74.7327	0.2367	74.9694		37,617.8488	37,617.8488	0.9324		37,641.1599
Total	16.9156	20.5411	110.5116	0.4536	704.7377	0.2839	705.0216	77.7238	0.2625	77.9863		45,628.8968	45,628.8968	1.1044		45,656.5078

Arica and Victory Pass Solar - Mojave Desert Air Basin, Winter

3.5 6 VP Electrical PV Install - 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	11.6196	120.8442	101.6267	0.2436		5.3844	5.3844		4.9756	4.9756		23,489.69 40	23,489.69 40	7.3406		23,673.20 87
Total	11.6196	120.8442	101.6267	0.2436		5.3844	5.3844		4.9756	4.9756		23,489.69 40	23,489.69 40	7.3406		23,673.20 87

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	1.0500e-003	0.0356	6.2800e-003	2.0000e-004	0.4975	1.2000e-004	0.4976	0.0504	1.2000e-004	0.0505		20.5236	20.5236	5.8000e-004		20.5382
Vendor	0.4194	14.2298	2.5131	0.0783	198.9989	0.0496	199.0485	20.1682	0.0475	20.2157		8,209.424 4	8,209.424 4	0.2340		8,215.274 1
Worker	17.3257	12.7875	116.4893	0.3845	5,067.351 9	0.2599	5,067.611 8	511.9099	0.2394	512.1492		38,337.26 31	38,337.26 31	1.0239		38,362.86 14
Total	17.7461	27.0528	119.0087	0.4630	5,266.848 3	0.3096	5,267.157 9	532.1285	0.2869	532.4154		46,567.21 10	46,567.21 10	1.2585		46,598.67 37

Arica and Victory Pass Solar - Mojave Desert Air Basin, Winter

3.5 6 VP Electrical PV Install - 2022**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	3.2882	26.1734	135.6232	0.2436		0.3955	0.3955		0.3955	0.3955	0.0000	23,489.69 40	23,489.69 40	7.3406		23,673.20 87
Total	3.2882	26.1734	135.6232	0.2436		0.3955	0.3955		0.3955	0.3955	0.0000	23,489.69 40	23,489.69 40	7.3406		23,673.20 87

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	1.0500e-003	0.0356	6.2800e-003	2.0000e-004	0.0659	1.2000e-004	0.0660	7.4200e-003	1.2000e-004	7.5400e-003		20.5236	20.5236	5.8000e-004		20.5382
Vendor	0.4194	14.2298	2.5131	0.0783	26.3623	0.0496	26.4119	2.9676	0.0475	3.0151		8,209.424 4	8,209.424 4	0.2340		8,215.274 1
Worker	17.3257	12.7875	116.4893	0.3845	665.1176	0.2599	665.3774	73.2955	0.2394	73.5349		38,337.26 31	38,337.26 31	1.0239		38,362.86 14
Total	17.7461	27.0528	119.0087	0.4630	691.5458	0.3096	691.8553	76.2706	0.2869	76.5575		46,567.21 10	46,567.21 10	1.2585		46,598.67 37

Arica and Victory Pass Solar - Mojave Desert Air Basin, Winter

3.6 7 VP Inv BESS - 2023**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	5.7062	56.0126	61.5526	0.1683		2.1878	2.1878		2.0319	2.0319		16,193.4899	16,193.4899	4.9743		16,317.8468
Total	5.7062	56.0126	61.5526	0.1683		2.1878	2.1878		2.0319	2.0319		16,193.4899	16,193.4899	4.9743		16,317.8468

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.8000e-004	0.0275	6.8300e-003	2.4000e-004	0.6219	8.0000e-005	0.6220	0.0630	8.0000e-005	0.0631		24.9899	24.9899	5.4000e-004		25.0033
Vendor	0.2358	6.6080	1.6396	0.0572	149.2492	0.0201	149.2693	15.1262	0.0193	15.1454		5,997.5761	5,997.5761	0.1288		6,000.7952
Worker	11.1735	7.8849	72.9088	0.2539	3,477.5944	0.1730	3,477.7675	351.3107	0.1593	351.4700		25,319.7059	25,319.7059	0.6276		25,335.3961
Total	11.4103	14.5204	74.5552	0.3113	3,627.4655	0.1932	3,627.6587	366.4999	0.1787	366.6785		31,342.2719	31,342.2719	0.7569		31,361.1946

Arica and Victory Pass Solar - Mojave Desert Air Basin, Winter

3.6 7 VP Inv BESS - 2023**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3632	22.1654	90.2593	0.1683		0.2722	0.2722		0.2722	0.2722	0.0000	16,193.4899	16,193.4899	4.9743		16,317.8467
Total	2.3632	22.1654	90.2593	0.1683		0.2722	0.2722		0.2722	0.2722	0.0000	16,193.4899	16,193.4899	4.9743		16,317.8467

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.8000e-004	0.0275	6.8300e-003	2.4000e-004	0.0824	8.0000e-005	0.0825	9.2700e-003	8.0000e-005	9.3500e-003		24.9899	24.9899	5.4000e-004		25.0033
Vendor	0.2358	6.6080	1.6396	0.0572	19.7717	0.0201	19.7918	2.2257	0.0193	2.2450		5,997.5761	5,997.5761	0.1288		6,000.7952
Worker	11.1735	7.8849	72.9088	0.2539	456.4532	0.1730	456.6262	50.3008	0.1593	50.4602		25,319.7059	25,319.7059	0.6276		25,335.3961
Total	11.4103	14.5204	74.5552	0.3113	476.3073	0.1932	476.5006	52.5358	0.1787	52.7145		31,342.2719	31,342.2719	0.7569		31,361.1946

Arica and Victory Pass Solar - Mojave Desert Air Basin, Winter

3.7 3 Arica Inv BESS - 2023**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	6.1762	60.6194	67.7470	0.1768		2.4391	2.4391		2.2631	2.2631		17,017.3104	17,017.3104	5.2407		17,148.3283
Total	6.1762	60.6194	67.7470	0.1768		2.4391	2.4391		2.2631	2.2631		17,017.3104	17,017.3104	5.2407		17,148.3283

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.8000e-004	0.0275	6.8300e-003	2.4000e-004	0.6219	8.0000e-005	0.6220	0.0630	8.0000e-005	0.0631		24.9899	24.9899	5.4000e-004		25.0033
Vendor	0.2358	6.6080	1.6396	0.0572	149.2492	0.0201	149.2693	15.1262	0.0193	15.1454		5,997.5761	5,997.5761	0.1288		6,000.7952
Worker	11.1735	7.8849	72.9088	0.2539	3,477.5944	0.1730	3,477.7675	351.3107	0.1593	351.4700		25,319.7059	25,319.7059	0.6276		25,335.3961
Total	11.4103	14.5204	74.5552	0.3113	3,627.4655	0.1932	3,627.6587	366.4999	0.1787	366.6785		31,342.2719	31,342.2719	0.7569		31,361.1946

Arica and Victory Pass Solar - Mojave Desert Air Basin, Winter

3.7 3 Arica Inv BESS - 2023**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4674	22.6166	96.6810	0.1768		0.2860	0.2860		0.2860	0.2860	0.0000	17,017.3104	17,017.3104	5.2407		17,148.3283
Total	2.4674	22.6166	96.6810	0.1768		0.2860	0.2860		0.2860	0.2860	0.0000	17,017.3104	17,017.3104	5.2407		17,148.3283

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.8000e-004	0.0275	6.8300e-003	2.4000e-004	0.0824	8.0000e-005	0.0825	9.2700e-003	8.0000e-005	9.3500e-003		24.9899	24.9899	5.4000e-004		25.0033
Vendor	0.2358	6.6080	1.6396	0.0572	19.7717	0.0201	19.7918	2.2257	0.0193	2.2450		5,997.5761	5,997.5761	0.1288		6,000.7952
Worker	11.1735	7.8849	72.9088	0.2539	456.4532	0.1730	456.6262	50.3008	0.1593	50.4602		25,319.7059	25,319.7059	0.6276		25,335.3961
Total	11.4103	14.5204	74.5552	0.3113	476.3073	0.1932	476.5006	52.5358	0.1787	52.7145		31,342.2719	31,342.2719	0.7569		31,361.1946

Arica and Victory Pass Solar - Mojave Desert Air Basin, Winter

3.8 8 VP Commissioning - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6629	5.0958	6.4921	0.0107		0.2427	0.2427		0.2380	0.2380		978.5431	978.5431	0.0979		980.9911
Total	0.6629	5.0958	6.4921	0.0107		0.2427	0.2427		0.2380	0.2380		978.5431	978.5431	0.0979		980.9911

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	7.9000e-004	0.0220	5.4700e-003	1.9000e-004	0.4975	7.0000e-005	0.4976	0.0504	6.0000e-005	0.0505		19.9919	19.9919	4.3000e-004		20.0027
Vendor	0.1572	4.4053	1.0931	0.0381	99.4995	0.0134	99.5129	10.0841	0.0128	10.0969		3,998.3840	3,998.3840	0.0858		4,000.5302
Worker	4.7887	3.3792	31.2466	0.1088	1,490.3976	0.0742	1,490.4718	150.5617	0.0683	150.6300		10,851.3025	10,851.3025	0.2690		10,858.0269
Total	4.9466	7.8066	32.3451	0.1471	1,590.3946	0.0876	1,590.4822	160.6962	0.0812	160.7774		14,869.6785	14,869.6785	0.3552		14,878.5597

Arica and Victory Pass Solar - Mojave Desert Air Basin, Winter

3.8 8 VP Commissioning - 2023**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	0.1284	1.3707	6.7148	0.0107		0.0142	0.0142		0.0142	0.0142	0.0000	978.5431	978.5431	0.0979		980.9911
Total	0.1284	1.3707	6.7148	0.0107		0.0142	0.0142		0.0142	0.0142	0.0000	978.5431	978.5431	0.0979		980.9911

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	7.9000e-004	0.0220	5.4700e-003	1.9000e-004	0.0659	7.0000e-005	0.0660	7.4200e-003	6.0000e-005	7.4800e-003		19.9919	19.9919	4.3000e-004		20.0027
Vendor	0.1572	4.4053	1.0931	0.0381	13.1811	0.0134	13.1946	1.4838	0.0128	1.4967		3,998.3840	3,998.3840	0.0858		4,000.5302
Worker	4.7887	3.3792	31.2466	0.1088	195.6228	0.0742	195.6970	21.5575	0.0683	21.6258		10,851.3025	10,851.3025	0.2690		10,858.0269
Total	4.9466	7.8066	32.3451	0.1471	208.8699	0.0876	208.9575	23.0487	0.0812	23.1299		14,869.6785	14,869.6785	0.3552		14,878.5597

Arica and Victory Pass Solar - Mojave Desert Air Basin, Winter

3.9 4 Arica Commissioning - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6629	5.0958	6.4921	0.0107		0.2427	0.2427		0.2380	0.2380		978.5431	978.5431	0.0979		980.9911
Total	0.6629	5.0958	6.4921	0.0107		0.2427	0.2427		0.2380	0.2380		978.5431	978.5431	0.0979		980.9911

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	7.9000e-004	0.0220	5.4700e-003	1.9000e-004	0.4975	7.0000e-005	0.4976	0.0504	6.0000e-005	0.0505		19.9919	19.9919	4.3000e-004		20.0027
Vendor	0.1572	4.4053	1.0931	0.0381	99.4995	0.0134	99.5129	10.0841	0.0128	10.0969		3,998.3840	3,998.3840	0.0858		4,000.5302
Worker	4.7887	3.3792	31.2466	0.1088	1,490.3976	0.0742	1,490.4718	150.5617	0.0683	150.6300		10,851.3025	10,851.3025	0.2690		10,858.0269
Total	4.9466	7.8066	32.3451	0.1471	1,590.3946	0.0876	1,590.4822	160.6962	0.0812	160.7774		14,869.6785	14,869.6785	0.3552		14,878.5597

Arica and Victory Pass Solar - Mojave Desert Air Basin, Winter

3.9 4 Arica Commissioning - 2023**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	0.1284	1.3707	6.7148	0.0107		0.0142	0.0142		0.0142	0.0142	0.0000	978.5431	978.5431	0.0979		980.9911
Total	0.1284	1.3707	6.7148	0.0107		0.0142	0.0142		0.0142	0.0142	0.0000	978.5431	978.5431	0.0979		980.9911

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	7.9000e-004	0.0220	5.4700e-003	1.9000e-004	0.0659	7.0000e-005	0.0660	7.4200e-003	6.0000e-005	7.4800e-003		19.9919	19.9919	4.3000e-004		20.0027
Vendor	0.1572	4.4053	1.0931	0.0381	13.1811	0.0134	13.1946	1.4838	0.0128	1.4967		3,998.3840	3,998.3840	0.0858		4,000.5302
Worker	4.7887	3.3792	31.2466	0.1088	195.6228	0.0742	195.6970	21.5575	0.0683	21.6258		10,851.3025	10,851.3025	0.2690		10,858.0269
Total	4.9466	7.8066	32.3451	0.1471	208.8699	0.0876	208.9575	23.0487	0.0812	23.1299		14,869.6785	14,869.6785	0.3552		14,878.5597

4.0 Operational Detail - Mobile

Arica and Victory Pass Solar - Mojave Desert Air Basin, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.0094	6.7684	17.9138	0.0897	7.5960	0.0548	7.6508	2.0336	0.0513	2.0849		9,148.1598	9,148.1598	0.3217		9,156.2028
Unmitigated	1.0094	6.7684	17.9138	0.0897	7.5960	0.0548	7.6508	2.0336	0.0513	2.0849		9,148.1598	9,148.1598	0.3217		9,156.2028

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	174.24	174.24	174.24	3,548,727	3,548,727
Total	174.24	174.24	174.24	3,548,727	3,548,727

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	60.00	60.00	60.00	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.545862	0.034394	0.171599	0.103299	0.016338	0.005100	0.010433	0.099439	0.001620	0.001949	0.008107	0.000868	0.000992

Arica and Victory Pass Solar - Mojave Desert Air Basin, Winter

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	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

Arica and Victory Pass Solar - Mojave Desert Air Basin, Winter

5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	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

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	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**

Arica and Victory Pass Solar - Mojave Desert 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	1.6475	0.1619	17.7870	1.3300e-003		0.0634	0.0634		0.0634	0.0634		38.1329	38.1329	0.1000		40.6332
Unmitigated	1.6475	0.1619	17.7870	1.3300e-003		0.0634	0.0634		0.0634	0.0634		38.1329	38.1329	0.1000		40.6332

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6475	0.1619	17.7870	1.3300e-003		0.0634	0.0634		0.0634	0.0634		38.1329	38.1329	0.1000		40.6332
Total	1.6475	0.1619	17.7870	1.3300e-003		0.0634	0.0634		0.0634	0.0634		38.1329	38.1329	0.1000		40.6332

Arica and Victory Pass Solar - Mojave Desert Air Basin, Winter

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6475	0.1619	17.7870	1.3300e-003		0.0634	0.0634		0.0634	0.0634		38.1329	38.1329	0.1000		40.6332
Total	1.6475	0.1619	17.7870	1.3300e-003		0.0634	0.0634		0.0634	0.0634		38.1329	38.1329	0.1000		40.6332

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

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

Arica and Victory Pass Solar - Mojave Desert Air Basin, Winter

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

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

Equipment Type	Number
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11.0 Vegetation

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

Arica and Victory Pass Solar
Mojave Desert Air Basin, Summer**1.0 Project Characteristics**

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	174,240.00	1000sqft	4,000.00	174,240,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2023
Utility Company					
CO2 Intensity (lb/MW hr)	0	CH4 Intensity (lb/MW hr)	0	N2O Intensity (lb/MW hr)	0

1.3 User Entered Comments & Non-Default Data

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

Project Characteristics - Version: Allowing overlap

Land Use - Approx 4000 ac combined.

Construction Phase - Sequence here allows overlap.

Off-road Equipment - Ph 1 approx 31 pcs equipment

Off-road Equipment - Ph 2 approx 66 pcs equipment

Off-road Equipment - Ph 3 approx 50 pcs equipment

Off-road Equipment - Ph 4 approx 3 pcs equipment

Off-road Equipment - Ph 5 approx 29 pcs equipment

Off-road Equipment - Ph 6 approx 66 pcs equipment

Off-road Equipment - Ph 7 approx 45 pcs equipment

Off-road Equipment - Ph 8 approx 3 pcs equipment

Trips and VMT - Trip length 60 mil each way per Transpo Analysis. Arica approx 5400 HDT round trips. VP approx 4600 HDT round trips.

On-road Fugitive Dust - Typical 6 mi or 10 pct of length on unpaved surfaces, gravel surface 6 pct silt content

Vehicle Trips - Trip Rate 0.001 per 1000sqft per day: fewer than 110 daily operational trips

Consumer Products - no consumer products

Area Coating - minimal or no coatings needed

Energy Use - energy use not applicable

Water And Wastewater - interior water consumption factors not applicable

Solid Waste - light industrial solid waste factors not applicable

Land Use Change - up to 4000 acres loss of natural carbon uptake

Construction Off-road Equipment Mitigation - Tier 4 offroad; water 2x daily is 55% effective PM10 control per Rule 403; suppressant is 84% effective per Table XI-D; unpaved road speed of 15 mph and no visible dust

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	0.5
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	32.00

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	60.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	14.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	44.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	18.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	20.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	42.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	32.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	155,000.00	140.00
tblConstructionPhase	NumDays	155,000.00	100.00
tblConstructionPhase	NumDays	155,000.00	80.00
tblConstructionPhase	NumDays	155,000.00	80.00

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

tblConstructionPhase	NumDays	155,000.00	100.00
tblConstructionPhase	NumDays	155,000.00	100.00
tblConsumerProducts	ROG_EF	2.14E-05	0
tblEnergyUse	LightingElect	2.93	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	T24E	2.20	0.00
tblEnergyUse	T24NG	15.36	0.00
tblOffRoadEquipment	HorsePower	221.00	180.00
tblOffRoadEquipment	HorsePower	221.00	180.00
tblOffRoadEquipment	HorsePower	221.00	180.00
tblOffRoadEquipment	HorsePower	221.00	180.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	10.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	HaulingPercentPave	100.00	90.00
tblOnRoadDust	MaterialSiltContent	8.50	6.00
tblOnRoadDust	MaterialSiltContent	8.50	6.00
tblOnRoadDust	MaterialSiltContent	8.50	6.00
tblOnRoadDust	MaterialSiltContent	8.50	6.00
tblOnRoadDust	MaterialSiltContent	8.50	6.00
tblOnRoadDust	MaterialSiltContent	8.50	6.00
tblOnRoadDust	MaterialSiltContent	8.50	6.00
tblOnRoadDust	MaterialSiltContent	8.50	6.00
tblOnRoadDust	MeanVehicleSpeed	40.00	25.00
tblOnRoadDust	MeanVehicleSpeed	40.00	25.00

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

tblOnRoadDust	MeanVehicleSpeed	40.00	25.00
tblOnRoadDust	MeanVehicleSpeed	40.00	25.00
tblOnRoadDust	MeanVehicleSpeed	40.00	25.00
tblOnRoadDust	MeanVehicleSpeed	40.00	25.00
tblOnRoadDust	MeanVehicleSpeed	40.00	25.00
tblOnRoadDust	MeanVehicleSpeed	40.00	25.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblOnRoadDust	VendorPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblOnRoadDust	WorkerPercentPave	100.00	90.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	216,057.60	0.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripLength	20.00	60.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripLength	6.60	60.00
tblTripsAndVMT	VendorTripLength	6.60	60.00
tblTripsAndVMT	VendorTripLength	6.60	60.00
tblTripsAndVMT	VendorTripLength	6.60	60.00
tblTripsAndVMT	VendorTripLength	6.60	60.00
tblTripsAndVMT	VendorTripLength	6.60	60.00
tblTripsAndVMT	VendorTripLength	6.60	60.00
tblTripsAndVMT	VendorTripLength	6.60	60.00
tblTripsAndVMT	VendorTripLength	6.60	60.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	0.00	20.00
tblTripsAndVMT	VendorTripNumber	28,558.00	40.00
tblTripsAndVMT	VendorTripNumber	28,558.00	40.00
tblTripsAndVMT	VendorTripNumber	28,558.00	30.00
tblTripsAndVMT	VendorTripNumber	28,558.00	30.00

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

tblTripsAndVMT	VendorTripNumber	28,558.00	20.00
tblTripsAndVMT	VendorTripNumber	28,558.00	20.00
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	VendorVehicleClass	HDT_Mix	HHDT
tblTripsAndVMT	WorkerTripLength	16.80	60.00
tblTripsAndVMT	WorkerTripLength	16.80	60.00
tblTripsAndVMT	WorkerTripLength	16.80	60.00
tblTripsAndVMT	WorkerTripLength	16.80	60.00
tblTripsAndVMT	WorkerTripLength	16.80	60.00
tblTripsAndVMT	WorkerTripLength	16.80	60.00
tblTripsAndVMT	WorkerTripLength	16.80	60.00
tblTripsAndVMT	WorkerTripLength	16.80	60.00
tblTripsAndVMT	WorkerTripNumber	78.00	300.00
tblTripsAndVMT	WorkerTripNumber	73.00	250.00
tblTripsAndVMT	WorkerTripNumber	73,181.00	1,040.00
tblTripsAndVMT	WorkerTripNumber	73,181.00	1,020.00
tblTripsAndVMT	WorkerTripNumber	73,181.00	700.00
tblTripsAndVMT	WorkerTripNumber	73,181.00	700.00
tblTripsAndVMT	WorkerTripNumber	73,181.00	300.00
tblTripsAndVMT	WorkerTripNumber	73,181.00	300.00
tblVehicleTrips	CC_TL	6.60	60.00

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tblVehicleTrips	CNW_TL	6.60	60.00
tblVehicleTrips	CW_TL	14.70	60.00
tblVehicleTrips	ST_TR	1.32	1.0000e-003
tblVehicleTrips	SU_TR	0.68	1.0000e-003
tblVehicleTrips	WD_TR	6.97	1.0000e-003
tblWater	IndoorWaterUseRate	40,293,000,000.00	0.00

2.0 Emissions Summary

Arica and Victory Pass Solar - Mojave Desert 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					
2022	57.4392	294.8855	519.7286	1.5321	10,633.01 10	11.3925	10,644.40 35	1,074.289 7	10.5293	1,084.8190	0.0000	151,904.7 917	151,904.7 917	17.5761	0.0000	152,344.1 951
2023	43.3252	199.3076	405.8777	1.2676	8,994.831 1	7.3573	9,002.188 4	908.7822	6.8090	915.5912	0.0000	125,656.7 077	125,656.7 077	14.4487	0.0000	126,017.9 253
Maximum	57.4392	294.8855	519.7286	1.5321	10,633.01 10	11.3925	10,644.40 35	1,074.289 7	10.5293	1,084.8190	0.0000	151,904.7 917	151,904.7 917	17.5761	0.0000	152,344.1 951

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	lb/day										lb/day					
2022	40.7764	105.5439	587.7215	1.5321	1,396.126 8	1.4147	1,397.541 4	153.9775	1.3690	155.3465	0.0000	151,904.7 917	151,904.7 917	17.5761	0.0000	152,344.1 951
2023	32.5761	82.7589	470.0037	1.2676	1,181.045 0	1.1446	1,182.189 6	130.2596	1.1086	131.3682	0.0000	125,656.7 076	125,656.7 076	14.4487	0.0000	126,017.9 253
Maximum	40.7764	105.5439	587.7215	1.5321	1,396.126 8	1.4147	1,397.541 4	153.9775	1.3690	155.3465	0.0000	151,904.7 917	151,904.7 917	17.5761	0.0000	152,344.1 951

	ROG	NOx	CO	SO2	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	27.20	61.90	-14.27	0.00	86.87	86.35	86.87	85.67	85.71	85.67	0.00	0.00	0.00	0.00	0.00	0.00

Arica and Victory Pass Solar - Mojave Desert 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	1.6475	0.1619	17.7870	1.3300e-003		0.0634	0.0634		0.0634	0.0634		38.1329	38.1329	0.1000		40.6332
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	1.1126	6.6184	22.2884	0.0974	7.5960	0.0547	7.6507	2.0336	0.0512	2.0848		9,922.8290	9,922.8290	0.3343		9,931.1874
Total	2.7600	6.7803	40.0754	0.0988	7.5960	0.1182	7.7141	2.0336	0.1147	2.1483		9,960.9618	9,960.9618	0.4344	0.0000	9,971.8206

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	1.6475	0.1619	17.7870	1.3300e-003		0.0634	0.0634		0.0634	0.0634		38.1329	38.1329	0.1000		40.6332
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	1.1126	6.6184	22.2884	0.0974	7.5960	0.0547	7.6507	2.0336	0.0512	2.0848		9,922.8290	9,922.8290	0.3343		9,931.1874
Total	2.7600	6.7803	40.0754	0.0988	7.5960	0.1182	7.7141	2.0336	0.1147	2.1483		9,960.9618	9,960.9618	0.4344	0.0000	9,971.8206

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	1 Arica Mobilization Prep	Trenching	6/1/2022	7/26/2022	5	40	1 Arica Mobilization Prep
2	5 VP Mobilization Prep	Trenching	6/1/2022	7/26/2022	5	40	5 VP Mobilization Prep
3	2 Arica Electrical PV Install	Building Construction	7/31/2022	2/10/2023	5	140	2 Arica Electrical PV Install
4	6 VP Electrical PV Install	Building Construction	7/31/2022	12/16/2022	5	100	6 VP Electrical PV Install
5	7 VP Inv BESS	Building Construction	1/1/2023	4/21/2023	5	80	7 VP Inv BESS
6	3 Arica Inv BESS	Building Construction	3/1/2023	6/20/2023	5	80	3 Arica Inv BESS
7	8 VP Commissioning	Building Construction	5/1/2023	9/15/2023	5	100	8 VP Commissioning
8	4 Arica Commissioning	Building Construction	7/1/2023	11/17/2023	5	100	4 Arica Commissioning

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
1 Arica Mobilization Prep	Forklifts	2	7.00	89	0.20
1 Arica Mobilization Prep	Graders	6	7.00	187	0.41

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

1 Arica Mobilization Prep	Rollers	6	7.00	80	0.38
1 Arica Mobilization Prep	Rubber Tired Dozers	4	8.00	247	0.40
1 Arica Mobilization Prep	Skid Steer Loaders	9	7.00	65	0.37
1 Arica Mobilization Prep	Tractors/Loaders/Backhoes	4	8.00	97	0.37
5 VP Mobilization Prep	Forklifts	2	7.00	89	0.20
5 VP Mobilization Prep	Graders	4	7.00	187	0.41
5 VP Mobilization Prep	Rollers	6	7.00	80	0.38
5 VP Mobilization Prep	Rubber Tired Dozers	4	7.00	247	0.40
5 VP Mobilization Prep	Skid Steer Loaders	9	7.00	65	0.37
5 VP Mobilization Prep	Tractors/Loaders/Backhoes	4	7.00	97	0.37
2 Arica Electrical PV Install	Aerial Lifts	8	7.00	63	0.31
2 Arica Electrical PV Install	Bore/Drill Rigs	15	7.00	180	0.50
2 Arica Electrical PV Install	Cranes	3	7.00	231	0.29
2 Arica Electrical PV Install	Forklifts	10	8.00	89	0.20
2 Arica Electrical PV Install	Generator Sets	1	8.00	84	0.74
2 Arica Electrical PV Install	Graders	4	7.00	187	0.41
2 Arica Electrical PV Install	Rollers	4	7.00	80	0.38
2 Arica Electrical PV Install	Rubber Tired Dozers	2	7.00	247	0.40
2 Arica Electrical PV Install	Skid Steer Loaders	6	7.00	65	0.37
2 Arica Electrical PV Install	Tractors/Loaders/Backhoes	8	7.00	97	0.37
2 Arica Electrical PV Install	Trenchers	3	7.00	78	0.50
2 Arica Electrical PV Install	Welders	2	8.00	46	0.45
6 VP Electrical PV Install	Aerial Lifts	8	7.00	63	0.31
6 VP Electrical PV Install	Bore/Drill Rigs	15	7.00	180	0.50
6 VP Electrical PV Install	Cranes	3	7.00	231	0.29
6 VP Electrical PV Install	Forklifts	10	8.00	89	0.20
6 VP Electrical PV Install	Generator Sets	1	8.00	84	0.74

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

6 VP Electrical PV Install	Graders	4	7.00	187	0.41
6 VP Electrical PV Install	Rollers	4	7.00	80	0.38
6 VP Electrical PV Install	Rubber Tired Dozers	2	7.00	247	0.40
6 VP Electrical PV Install	Skid Steer Loaders	6	7.00	65	0.37
6 VP Electrical PV Install	Tractors/Loaders/Backhoes	8	7.00	97	0.37
6 VP Electrical PV Install	Trenchers	3	7.00	78	0.50
6 VP Electrical PV Install	Welders	2	8.00	46	0.45
7 VP Inv BESS	Aerial Lifts	8	7.00	63	0.31
7 VP Inv BESS	Bore/Drill Rigs	15	7.00	180	0.50
7 VP Inv BESS	Cranes	3	7.00	231	0.29
7 VP Inv BESS	Forklifts	8	8.00	89	0.20
7 VP Inv BESS	Generator Sets	1	8.00	84	0.74
7 VP Inv BESS	Skid Steer Loaders	6	7.00	65	0.37
7 VP Inv BESS	Tractors/Loaders/Backhoes	2	7.00	97	0.37
7 VP Inv BESS	Welders	2	8.00	46	0.45
3 Arica Inv BESS	Aerial Lifts	8	7.00	63	0.31
3 Arica Inv BESS	Bore/Drill Rigs	15	7.00	180	0.50
3 Arica Inv BESS	Cranes	3	7.00	231	0.29
3 Arica Inv BESS	Forklifts	10	8.00	89	0.20
3 Arica Inv BESS	Generator Sets	1	8.00	84	0.74
3 Arica Inv BESS	Skid Steer Loaders	6	7.00	65	0.37
3 Arica Inv BESS	Tractors/Loaders/Backhoes	4	7.00	97	0.37
3 Arica Inv BESS	Welders	2	8.00	46	0.45
8 VP Commissioning	Cranes	1	0.00	231	0.29
8 VP Commissioning	Forklifts	1	8.00	89	0.20
8 VP Commissioning	Generator Sets	1	8.00	84	0.74
8 VP Commissioning	Tractors/Loaders/Backhoes	1	0.00	97	0.37

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

8 VP Commissioning	Welders	1	8.00	46	0.45
4 Arica Commissioning	Cranes	1	0.00	231	0.29
4 Arica Commissioning	Forklifts	1	8.00	89	0.20
4 Arica Commissioning	Generator Sets	1	8.00	84	0.74
4 Arica Commissioning	Tractors/Loaders/Backhoes	1	0.00	97	0.37
4 Arica Commissioning	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
1 Arica Mobilization Prep	31	300.00	20.00	10.00	60.00	60.00	60.00	LD_Mix	HHDT	HHDT
5 VP Mobilization Prep	29	250.00	20.00	10.00	60.00	60.00	60.00	LD_Mix	HHDT	HHDT
2 Arica Electrical PV Install	66	1,040.00	40.00	10.00	60.00	60.00	60.00	LD_Mix	HHDT	HHDT
6 VP Electrical PV Install	66	1,020.00	40.00	10.00	60.00	60.00	60.00	LD_Mix	HHDT	HHDT
7 VP Inv BESS	45	700.00	30.00	10.00	60.00	60.00	60.00	LD_Mix	HHDT	HHDT
3 Arica Inv BESS	49	700.00	30.00	10.00	60.00	60.00	60.00	LD_Mix	HHDT	HHDT
8 VP Commissioning	5	300.00	20.00	10.00	60.00	60.00	60.00	LD_Mix	HHDT	HHDT
4 Arica Commissioning	5	300.00	20.00	10.00	60.00	60.00	60.00	LD_Mix	HHDT	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

3.2 1 Arica Mobilization Prep - 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	7.8059	87.6993	55.0290	0.1141		3.8240	3.8240		3.5181	3.5181		11,050.99 18	11,050.99 18	3.5741		11,140.34 46
Total	7.8059	87.6993	55.0290	0.1141		3.8240	3.8240		3.5181	3.5181		11,050.99 18	11,050.99 18	3.5741		11,140.34 46

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	2.5400e-003	0.0876	0.0142	5.0000e-004	1.2437	3.1000e-004	1.2441	0.1261	3.0000e-004	0.1264		52.0527	52.0527	1.3000e-003		52.0853
Vendor	0.2030	7.0077	1.1377	0.0397	99.4995	0.0247	99.5241	10.0841	0.0236	10.1077		4,164.219 3	4,164.219 3	0.1041		4,166.821 0
Worker	4.8621	3.6563	45.4245	0.1290	1,490.397 6	0.0764	1,490.474 1	150.5617	0.0704	150.6321		12,849.44 17	12,849.44 17	0.3608		12,858.46 28
Total	5.0676	10.7515	46.5764	0.1692	1,591.140 8	0.1014	1,591.242 2	160.7719	0.0943	160.8662		17,065.71 38	17,065.71 38	0.4662		17,077.36 91

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

3.2 1 Arica Mobilization Prep - 2022**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5988	14.3436	65.1278	0.1141		0.1865	0.1865		0.1865	0.1865	0.0000	11,050.99 18	11,050.99 18	3.5741		11,140.34 46
Total	1.5988	14.3436	65.1278	0.1141		0.1865	0.1865		0.1865	0.1865	0.0000	11,050.99 18	11,050.99 18	3.5741		11,140.34 46

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	2.5400e-003	0.0876	0.0142	5.0000e-004	0.1648	3.1000e-004	0.1651	0.0186	3.0000e-004	0.0188		52.0527	52.0527	1.3000e-003		52.0853
Vendor	0.2030	7.0077	1.1377	0.0397	13.1811	0.0247	13.2058	1.4838	0.0236	1.5074		4,164.219 3	4,164.219 3	0.1041		4,166.821 0
Worker	4.8621	3.6563	45.4245	0.1290	195.6228	0.0764	195.6992	21.5575	0.0704	21.6279		12,849.44 17	12,849.44 17	0.3608		12,858.46 28
Total	5.0676	10.7515	46.5764	0.1692	208.9687	0.1014	209.0701	23.0599	0.0943	23.1542		17,065.71 38	17,065.71 38	0.4662		17,077.36 91

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

3.3 5 VP Mobilization Prep - 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	6.5788	73.2638	49.1059	0.0967		3.2777	3.2777		3.0154	3.0154		9,364.6165	9,364.6165	3.0287		9,440.3342
Total	6.5788	73.2638	49.1059	0.0967		3.2777	3.2777		3.0154	3.0154		9,364.6165	9,364.6165	3.0287		9,440.3342

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	2.5400e-003	0.0876	0.0142	5.0000e-004	1.2437	3.1000e-004	1.2441	0.1261	3.0000e-004	0.1264		52.0527	52.0527	1.3000e-003		52.0853
Vendor	0.2030	7.0077	1.1377	0.0397	99.4995	0.0247	99.5241	10.0841	0.0236	10.1077		4,164.2193	4,164.2193	0.1041		4,166.8210
Worker	4.0517	3.0469	37.8537	0.1075	1,241.9980	0.0637	1,242.0617	125.4681	0.0587	125.5268		10,707.8681	10,707.8681	0.3007		10,715.3857
Total	4.2573	10.1421	39.0056	0.1477	1,342.7412	0.0887	1,342.8299	135.6783	0.0826	135.7608		14,924.1402	14,924.1402	0.4061		14,934.2919

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

3.3 5 VP Mobilization Prep - 2022**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3855	13.4195	56.8339	0.0967		0.1580	0.1580		0.1580	0.1580	0.0000	9,364.6165	9,364.6165	3.0287		9,440.3341
Total	1.3855	13.4195	56.8339	0.0967		0.1580	0.1580		0.1580	0.1580	0.0000	9,364.6165	9,364.6165	3.0287		9,440.3341

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	2.5400e-003	0.0876	0.0142	5.0000e-004	0.1648	3.1000e-004	0.1651	0.0186	3.0000e-004	0.0188		52.0527	52.0527	1.3000e-003		52.0853
Vendor	0.2030	7.0077	1.1377	0.0397	13.1811	0.0247	13.2058	1.4838	0.0236	1.5074		4,164.2193	4,164.2193	0.1041		4,166.8210
Worker	4.0517	3.0469	37.8537	0.1075	163.0190	0.0637	163.0827	17.9646	0.0587	18.0233		10,707.8681	10,707.8681	0.3007		10,715.3857
Total	4.2573	10.1421	39.0056	0.1477	176.3649	0.0887	176.4536	19.4670	0.0826	19.5495		14,924.1402	14,924.1402	0.4061		14,934.2919

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

3.4 2 Arica Electrical PV Install - 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	11.6196	120.8442	101.6267	0.2436		5.3844	5.3844		4.9756	4.9756		23,489.69 40	23,489.69 40	7.3406		23,673.20 87
Total	11.6196	120.8442	101.6267	0.2436		5.3844	5.3844		4.9756	4.9756		23,489.69 40	23,489.69 40	7.3406		23,673.20 87

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	7.3000e-004	0.0250	4.0600e-003	1.4000e-004	0.4520	9.0000e-005	0.4521	0.0458	8.0000e-005	0.0458		14.8722	14.8722	3.7000e-004		14.8815
Vendor	0.4061	14.0153	2.2754	0.0794	198.9989	0.0494	199.0483	20.1682	0.0472	20.2154		8,328.438 6	8,328.438 6	0.2081		8,333.642 0
Worker	16.8551	12.6751	157.4714	0.4472	5,166.711 7	0.2650	5,166.976 7	521.9473	0.2441	522.1914		44,544.73 13	44,544.73 13	1.2509		44,576.00 45
Total	17.2620	26.7154	159.7509	0.5267	5,366.162 7	0.3144	5,366.477 1	542.1613	0.2914	542.4526		52,888.04 21	52,888.04 21	1.4594		52,924.52 80

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

3.4 2 Arica Electrical PV Install - 2022**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	3.2882	26.1734	135.6232	0.2436		0.3955	0.3955		0.3955	0.3955	0.0000	23,489.69 40	23,489.69 40	7.3406		23,673.20 87
Total	3.2882	26.1734	135.6232	0.2436		0.3955	0.3955		0.3955	0.3955	0.0000	23,489.69 40	23,489.69 40	7.3406		23,673.20 87

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	7.3000e-004	0.0250	4.0600e-003	1.4000e-004	0.0597	9.0000e-005	0.0598	6.6500e-003	8.0000e-005	6.7400e-003		14.8722	14.8722	3.7000e-004		14.8815
Vendor	0.4061	14.0153	2.2754	0.0794	26.3623	0.0494	26.4116	2.9676	0.0472	3.0149		8,328.438 6	8,328.438 6	0.2081		8,333.642 0
Worker	16.8551	12.6751	157.4714	0.4472	678.1591	0.2650	678.4240	74.7327	0.2441	74.9767		44,544.73 13	44,544.73 13	1.2509		44,576.00 45
Total	17.2620	26.7154	159.7509	0.5267	704.5810	0.3144	704.8954	77.7070	0.2914	77.9983		52,888.04 21	52,888.04 21	1.4594		52,924.52 80

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

3.4 2 Arica Electrical PV Install - 2023**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	10.6942	108.8749	100.2039	0.2439		4.6925	4.6925		4.3362	4.3362		23,511.3489	23,511.3489	7.3410		23,694.8744
Total	10.6942	108.8749	100.2039	0.2439		4.6925	4.6925		4.3362	4.3362		23,511.3489	23,511.3489	7.3410		23,694.8744

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	5.4000e-004	0.0156	3.6100e-003	1.4000e-004	1.6549	5.0000e-005	1.6550	0.1668	5.0000e-005	0.1669		14.4840	14.4840	2.7000e-004		14.4908
Vendor	0.3047	8.7476	2.0202	0.0774	198.9989	0.0267	199.0257	20.1682	0.0256	20.1938		8,111.0103	8,111.0103	0.1532		8,114.8392
Worker	15.7734	11.3975	143.7925	0.4302	5,166.7117	0.2571	5,166.9688	521.9473	0.2367	522.1840		42,865.7935	42,865.7935	1.1145		42,893.6560
Total	16.0786	20.1607	145.8164	0.5077	5,367.3656	0.2838	5,367.6494	542.2823	0.2623	542.5447		50,991.2878	50,991.2878	1.2679		51,022.9859

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

3.4 2 Arica Electrical PV Install - 2023**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	3.2882	26.1734	135.6232	0.2439		0.3955	0.3955		0.3955	0.3955	0.0000	23,511.3489	23,511.3489	7.3410		23,694.8744
Total	3.2882	26.1734	135.6232	0.2439		0.3955	0.3955		0.3955	0.3955	0.0000	23,511.3489	23,511.3489	7.3410		23,694.8744

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	5.4000e-004	0.0156	3.6100e-003	1.4000e-004	0.2163	5.0000e-005	0.2164	0.0235	5.0000e-005	0.0236		14.4840	14.4840	2.7000e-004		14.4908
Vendor	0.3047	8.7476	2.0202	0.0774	26.3623	0.0267	26.3890	2.9676	0.0256	2.9932		8,111.0103	8,111.0103	0.1532		8,114.8392
Worker	15.7734	11.3975	143.7925	0.4302	678.1591	0.2571	678.4161	74.7327	0.2367	74.9694		42,865.7935	42,865.7935	1.1145		42,893.6560
Total	16.0786	20.1607	145.8164	0.5077	704.7377	0.2838	705.0215	77.7238	0.2623	77.9861		50,991.2878	50,991.2878	1.2679		51,022.9859

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

3.5 6 VP Electrical PV Install - 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	11.6196	120.8442	101.6267	0.2436		5.3844	5.3844		4.9756	4.9756		23,489.6940	23,489.6940	7.3406		23,673.2087
Total	11.6196	120.8442	101.6267	0.2436		5.3844	5.3844		4.9756	4.9756		23,489.6940	23,489.6940	7.3406		23,673.2087

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	1.0200e-003	0.0350	5.6900e-003	2.0000e-004	0.4975	1.2000e-004	0.4976	0.0504	1.2000e-004	0.0505		20.8211	20.8211	5.2000e-004		20.8341
Vendor	0.4061	14.0153	2.2754	0.0794	198.9989	0.0494	199.0483	20.1682	0.0472	20.2154		8,328.4386	8,328.4386	0.2081		8,333.6420
Worker	16.5310	12.4313	154.4431	0.4386	5,067.3519	0.2599	5,067.6118	511.9099	0.2394	512.1492		43,688.1019	43,688.1019	1.2269		43,718.7737
Total	16.9381	26.4817	156.7243	0.5182	5,266.8483	0.3093	5,267.1577	532.1285	0.2867	532.4152		52,037.3616	52,037.3616	1.4355		52,073.2497

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

3.5 6 VP Electrical PV Install - 2022**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	3.2882	26.1734	135.6232	0.2436		0.3955	0.3955		0.3955	0.3955	0.0000	23,489.6940	23,489.6940	7.3406		23,673.2087
Total	3.2882	26.1734	135.6232	0.2436		0.3955	0.3955		0.3955	0.3955	0.0000	23,489.6940	23,489.6940	7.3406		23,673.2087

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	1.0200e-003	0.0350	5.6900e-003	2.0000e-004	0.0659	1.2000e-004	0.0660	7.4200e-003	1.2000e-004	7.5400e-003		20.8211	20.8211	5.2000e-004		20.8341
Vendor	0.4061	14.0153	2.2754	0.0794	26.3623	0.0494	26.4116	2.9676	0.0472	3.0149		8,328.4386	8,328.4386	0.2081		8,333.6420
Worker	16.5310	12.4313	154.4431	0.4386	665.1176	0.2599	665.3774	73.2955	0.2394	73.5349		43,688.1019	43,688.1019	1.2269		43,718.7737
Total	16.9381	26.4817	156.7243	0.5182	691.5458	0.3093	691.8551	76.2706	0.2867	76.5573		52,037.3616	52,037.3616	1.4355		52,073.2497

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

3.6 7 VP Inv BESS - 2023**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	5.7062	56.0126	61.5526	0.1683		2.1878	2.1878		2.0319	2.0319		16,193.4899	16,193.4899	4.9743		16,317.8468
Total	5.7062	56.0126	61.5526	0.1683		2.1878	2.1878		2.0319	2.0319		16,193.4899	16,193.4899	4.9743		16,317.8468

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.5000e-004	0.0273	6.3100e-003	2.4000e-004	0.6219	8.0000e-005	0.6220	0.0630	8.0000e-005	0.0631		25.3469	25.3469	4.8000e-004		25.3589
Vendor	0.2285	6.5607	1.5152	0.0580	149.2492	0.0200	149.2692	15.1262	0.0192	15.1453		6,083.2577	6,083.2577	0.1149		6,086.1294
Worker	10.6167	7.6714	96.7834	0.2895	3,477.5944	0.1730	3,477.7675	351.3107	0.1593	351.4700		28,851.9764	28,851.9764	0.7501		28,870.7300
Total	10.8462	14.2594	98.3049	0.3478	3,627.4655	0.1931	3,627.6587	366.4999	0.1786	366.6785		34,960.5811	34,960.5811	0.8655		34,982.2182

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

3.6 7 VP Inv BESS - 2023**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3632	22.1654	90.2593	0.1683		0.2722	0.2722		0.2722	0.2722	0.0000	16,193.4899	16,193.4899	4.9743		16,317.8467
Total	2.3632	22.1654	90.2593	0.1683		0.2722	0.2722		0.2722	0.2722	0.0000	16,193.4899	16,193.4899	4.9743		16,317.8467

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.5000e-004	0.0273	6.3100e-003	2.4000e-004	0.0824	8.0000e-005	0.0825	9.2700e-003	8.0000e-005	9.3500e-003		25.3469	25.3469	4.8000e-004		25.3589
Vendor	0.2285	6.5607	1.5152	0.0580	19.7717	0.0200	19.7918	2.2257	0.0192	2.2449		6,083.2577	6,083.2577	0.1149		6,086.1294
Worker	10.6167	7.6714	96.7834	0.2895	456.4532	0.1730	456.6262	50.3008	0.1593	50.4602		28,851.9764	28,851.9764	0.7501		28,870.7300
Total	10.8462	14.2594	98.3049	0.3478	476.3073	0.1931	476.5005	52.5358	0.1786	52.7144		34,960.5811	34,960.5811	0.8655		34,982.2182

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

3.7 3 Arica Inv BESS - 2023**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	6.1762	60.6194	67.7470	0.1768		2.4391	2.4391		2.2631	2.2631		17,017.3104	17,017.3104	5.2407		17,148.3283
Total	6.1762	60.6194	67.7470	0.1768		2.4391	2.4391		2.2631	2.2631		17,017.3104	17,017.3104	5.2407		17,148.3283

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.5000e-004	0.0273	6.3100e-003	2.4000e-004	0.6219	8.0000e-005	0.6220	0.0630	8.0000e-005	0.0631		25.3469	25.3469	4.8000e-004		25.3589
Vendor	0.2285	6.5607	1.5152	0.0580	149.2492	0.0200	149.2692	15.1262	0.0192	15.1453		6,083.2577	6,083.2577	0.1149		6,086.1294
Worker	10.6167	7.6714	96.7834	0.2895	3,477.5944	0.1730	3,477.7675	351.3107	0.1593	351.4700		28,851.9764	28,851.9764	0.7501		28,870.7300
Total	10.8462	14.2594	98.3049	0.3478	3,627.4655	0.1931	3,627.6587	366.4999	0.1786	366.6785		34,960.5811	34,960.5811	0.8655		34,982.2182

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

3.7 3 Arica Inv BESS - 2023**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4674	22.6166	96.6810	0.1768		0.2860	0.2860		0.2860	0.2860	0.0000	17,017.3104	17,017.3104	5.2407		17,148.3283
Total	2.4674	22.6166	96.6810	0.1768		0.2860	0.2860		0.2860	0.2860	0.0000	17,017.3104	17,017.3104	5.2407		17,148.3283

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.5000e-004	0.0273	6.3100e-003	2.4000e-004	0.0824	8.0000e-005	0.0825	9.2700e-003	8.0000e-005	9.3500e-003		25.3469	25.3469	4.8000e-004		25.3589
Vendor	0.2285	6.5607	1.5152	0.0580	19.7717	0.0200	19.7918	2.2257	0.0192	2.2449		6,083.2577	6,083.2577	0.1149		6,086.1294
Worker	10.6167	7.6714	96.7834	0.2895	456.4532	0.1730	456.6262	50.3008	0.1593	50.4602		28,851.9764	28,851.9764	0.7501		28,870.7300
Total	10.8462	14.2594	98.3049	0.3478	476.3073	0.1931	476.5005	52.5358	0.1786	52.7144		34,960.5811	34,960.5811	0.8655		34,982.2182

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

3.8 8 VP Commissioning - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6629	5.0958	6.4921	0.0107		0.2427	0.2427		0.2380	0.2380		978.5431	978.5431	0.0979		980.9911
Total	0.6629	5.0958	6.4921	0.0107		0.2427	0.2427		0.2380	0.2380		978.5431	978.5431	0.0979		980.9911

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	7.6000e-004	0.0219	5.0500e-003	1.9000e-004	0.4975	7.0000e-005	0.4976	0.0504	6.0000e-005	0.0505		20.2775	20.2775	3.8000e-004		20.2871
Vendor	0.1524	4.3738	1.0101	0.0387	99.4995	0.0134	99.5128	10.0841	0.0128	10.0969		4,055.5052	4,055.5052	0.0766		4,057.4196
Worker	4.5500	3.2878	41.4786	0.1241	1,490.3976	0.0742	1,490.4718	150.5617	0.0683	150.6300		12,365.1328	12,365.1328	0.3215		12,373.1700
Total	4.7031	7.6834	42.4938	0.1630	1,590.3946	0.0876	1,590.4822	160.6962	0.0811	160.7774		16,440.9154	16,440.9154	0.3985		16,450.8767

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

3.8 8 VP Commissioning - 2023**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	0.1284	1.3707	6.7148	0.0107		0.0142	0.0142		0.0142	0.0142	0.0000	978.5431	978.5431	0.0979		980.9911
Total	0.1284	1.3707	6.7148	0.0107		0.0142	0.0142		0.0142	0.0142	0.0000	978.5431	978.5431	0.0979		980.9911

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	7.6000e-004	0.0219	5.0500e-003	1.9000e-004	0.0659	7.0000e-005	0.0660	7.4200e-003	6.0000e-005	7.4800e-003		20.2775	20.2775	3.8000e-004		20.2871
Vendor	0.1524	4.3738	1.0101	0.0387	13.1811	0.0134	13.1945	1.4838	0.0128	1.4966		4,055.5052	4,055.5052	0.0766		4,057.4196
Worker	4.5500	3.2878	41.4786	0.1241	195.6228	0.0742	195.6970	21.5575	0.0683	21.6258		12,365.1328	12,365.1328	0.3215		12,373.1700
Total	4.7031	7.6834	42.4938	0.1630	208.8699	0.0876	208.9574	23.0487	0.0811	23.1299		16,440.9154	16,440.9154	0.3985		16,450.8767

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

3.9 4 Arica Commissioning - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6629	5.0958	6.4921	0.0107		0.2427	0.2427		0.2380	0.2380		978.5431	978.5431	0.0979		980.9911
Total	0.6629	5.0958	6.4921	0.0107		0.2427	0.2427		0.2380	0.2380		978.5431	978.5431	0.0979		980.9911

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	7.6000e-004	0.0219	5.0500e-003	1.9000e-004	0.4975	7.0000e-005	0.4976	0.0504	6.0000e-005	0.0505		20.2775	20.2775	3.8000e-004		20.2871
Vendor	0.1524	4.3738	1.0101	0.0387	99.4995	0.0134	99.5128	10.0841	0.0128	10.0969		4,055.5052	4,055.5052	0.0766		4,057.4196
Worker	4.5500	3.2878	41.4786	0.1241	1,490.3976	0.0742	1,490.4718	150.5617	0.0683	150.6300		12,365.1328	12,365.1328	0.3215		12,373.1700
Total	4.7031	7.6834	42.4938	0.1630	1,590.3946	0.0876	1,590.4822	160.6962	0.0811	160.7774		16,440.9154	16,440.9154	0.3985		16,450.8767

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

3.9 4 Arica Commissioning - 2023**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	0.1284	1.3707	6.7148	0.0107		0.0142	0.0142		0.0142	0.0142	0.0000	978.5431	978.5431	0.0979		980.9911
Total	0.1284	1.3707	6.7148	0.0107		0.0142	0.0142		0.0142	0.0142	0.0000	978.5431	978.5431	0.0979		980.9911

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	7.6000e-004	0.0219	5.0500e-003	1.9000e-004	0.0659	7.0000e-005	0.0660	7.4200e-003	6.0000e-005	7.4800e-003		20.2775	20.2775	3.8000e-004		20.2871
Vendor	0.1524	4.3738	1.0101	0.0387	13.1811	0.0134	13.1945	1.4838	0.0128	1.4966		4,055.5052	4,055.5052	0.0766		4,057.4196
Worker	4.5500	3.2878	41.4786	0.1241	195.6228	0.0742	195.6970	21.5575	0.0683	21.6258		12,365.1328	12,365.1328	0.3215		12,373.1700
Total	4.7031	7.6834	42.4938	0.1630	208.8699	0.0876	208.9574	23.0487	0.0811	23.1299		16,440.9154	16,440.9154	0.3985		16,450.8767

4.0 Operational Detail - Mobile

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.1126	6.6184	22.2884	0.0974	7.5960	0.0547	7.6507	2.0336	0.0512	2.0848		9,922.8290	9,922.8290	0.3343		9,931.1874
Unmitigated	1.1126	6.6184	22.2884	0.0974	7.5960	0.0547	7.6507	2.0336	0.0512	2.0848		9,922.8290	9,922.8290	0.3343		9,931.1874

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	174.24	174.24	174.24	3,548,727	3,548,727
Total	174.24	174.24	174.24	3,548,727	3,548,727

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Light Industry	60.00	60.00	60.00	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.545862	0.034394	0.171599	0.103299	0.016338	0.005100	0.010433	0.099439	0.001620	0.001949	0.008107	0.000868	0.000992

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	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

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	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

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	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**

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.6475	0.1619	17.7870	1.3300e-003		0.0634	0.0634		0.0634	0.0634		38.1329	38.1329	0.1000		40.6332
Unmitigated	1.6475	0.1619	17.7870	1.3300e-003		0.0634	0.0634		0.0634	0.0634		38.1329	38.1329	0.1000		40.6332

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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6475	0.1619	17.7870	1.3300e-003		0.0634	0.0634		0.0634	0.0634		38.1329	38.1329	0.1000		40.6332
Total	1.6475	0.1619	17.7870	1.3300e-003		0.0634	0.0634		0.0634	0.0634		38.1329	38.1329	0.1000		40.6332

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.6475	0.1619	17.7870	1.3300e-003		0.0634	0.0634		0.0634	0.0634		38.1329	38.1329	0.1000		40.6332
Total	1.6475	0.1619	17.7870	1.3300e-003		0.0634	0.0634		0.0634	0.0634		38.1329	38.1329	0.1000		40.6332

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

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

Arica and Victory Pass Solar - Mojave Desert Air Basin, Summer

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

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

Equipment Type	Number
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11.0 Vegetation

Appendix D-3

Avoided GHG Emissions

Cover Sheet

Proposed Near-Term Method for Estimating Generation Fuel Displacement by Avoided Use of Grid Electricity

California Energy Commission, Energy Assessments Division

7-23-15

Summary: The following data sheets contain a functional calculator for estimating generation fuel displacement by avoided use of grid electricity over a five-year period. The avoided electricity is converted to carbon dioxide emissions using the carbon content of the fuel source, natural gas.

The intended audience is the general public, load serving entity resource planning staff, and electric industry stakeholders.

Source of Data: Quarterly Fuel and Energy Report

Key Caveats:

1. These values are produced with data submitted in Spring 2014 pursuant to the Forms and Instructions for Submitting Electricity Resource Plans prepared in support of the *2013 Integrated Energy Policy Report* (CEC-200-2012-007-SF).
2. The heat rates are extrapolated using the historical trend of California's flexible natural gas-fired resources. The method assumes that these resources make up the marginal resource class and would be the resources reduced in use on an annual average basis in response to reductions in electricity demand. Changes to the resource stack, such as increasing renewable energy and the subsequent change to the operation of the grid and its existing resources is not accounted for in the heat rate estimates.
3. A line loss factor of 1.08460, the equivalent of line losses of 7.8 percent, is used to convert the annual average heat rates to onsite adjusted annual average heat rates.
4. Since this method uses annual averages, it is inappropriate for estimating short-term grid variations, including day-to-day

operational changes and seasonal variation. Further, this method is inappropriate for estimating large-scale changes to the electric grid, actions that result in the displacement of terawatt-hours. In addition, direct comparison of new and old emissions may be a more appropriate and accurate measure of emission reductions when generation resources are replaced on a one-for-one basis.

Author:

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Full Report: <http://energy.ca.gov/2015publications/CEC-200-2015-002/CEC-200-2015-002.pdf>

Basis: CEC (2015) Proposed Near-Term Method for Estimating Generation Fuel Displacement by Avoided Use of Grid Electricity

Example: Solar PV Project assumptions: Riverside East capacity factor of ~30% during off-peak; assume ~0% capacity factor when conventional peaking resources are generating.

Average Annual Emissions Equivalent (metric tonnes CO2)	450,056	Typ Ann. Export (MWh)
Total kWh Savings (10-ysr)	11,878,034,400	1,187,803
Avoided Emissions Displacement Factor (kg CO2/MWh)	378.90	

Inputs:	Generator Size (kW)	465,000
	Off-Peak Capacity Factor (Percentage)	30.0%
	Off-Peak Export (Percentage)	100%
	On-Peak Capacity Factor (Percentage)	0.0%
	On-Peak Export (Percentage)	100%
	Total Capacity Factor	27.2%

Year	Estimated Energy Generation				Annual Total (mmBtu)	Annual Total (metric tonnes CO2)
	Export		Onsite			
	Load Following (kWh)	Peaking (kWh)	Load Following (kWh)	Peaking (kWh)		
2020	1,187,803,440	-	-	-	8,526,697	452,512.06
2021	1,187,803,440	-	-	-	8,518,284	452,065.58
2022	1,187,803,440	-	-	-	8,509,871	451,619.09
2023	1,187,803,440	-	-	-	8,501,458	451,172.61
2024	1,187,803,440	-	-	-	8,493,045	450,726.13
2025	1,187,803,440	-	-	-	8,484,631	450,279.64
2026	1,187,803,440	-	-	-	8,476,218	449,833.16
2027	1,187,803,440	-	-	-	8,467,805	449,386.68
2028	1,187,803,440	-	-	-	8,459,392	448,940.19
2029	1,187,803,440	-	-	-	8,450,979	448,493.71
2030	1,187,803,440	-	-	-	8,442,566	448,047.23

10-ysr Totals	11,878,034,400	-	-	-	84,804,249	4,500,564
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	Btu/kWh	Btu/kWh	Btu/kWh	Btu/kWh
Year	Export		Onsite	
	Load Following	Peaking	Load Following	Peaking
2014	7,221	10,554	7,832	11,446
2015	7,214	10,534	7,824	11,426
2016	7,207	10,515	7,817	11,405
2017	7,200	10,496	7,809	11,384
2018	7,193	10,477	7,801	11,363
2019	7,186	10,458	7,794	11,343
2020	7,179	10,439	7,786	11,322
2021	7,171	10,420	7,778	11,301
2022	7,164	10,401	7,770	11,281
2023	7,157	10,382	7,763	11,260
2024	7,150	10,362	7,755	11,239
2025	7,143	10,343	7,747	11,218
2026	7,136	10,324	7,740	11,198
2027	7,129	10,305	7,732	11,177
2028	7,122	10,286	7,724	11,156
2029	7,115	10,267	7,717	11,136
2030	7,108	10,248	7,709	11,115

Conversion Factors	
1 mmBtu NG	117 lbs. CO2
1 lb	0.45359 kg
1000 kg	1 metric tonne

Percentage of Load Balancing Energy From Peaking Resources
2.8%

Appendix D-4

Operations and Maintenance Building
CalEEMod Output

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Annual

Arica and Victory Pass Solar O&M Building

Mojave Desert Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	3.50	1000sqft	0.08	3,500.00	0
General Light Industry	1.00	1000sqft	0.02	1,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on project description. Industrial for construction water use only.

Construction Phase - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Annual

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Grading - CalEEMod defaults.

Demolition - No demo.

Trips and VMT - CalEEMod defaults. Odd trips rounded up to account for whole round trips.

On-road Fugitive Dust - CalEEMod defaults.

Architectural Coating - CalEEMod defaults.

Vehicle Trips - Calculated outside of CalEEMod.

Consumer Products - CalEEMod defaults.

Area Coating - CalEEMod defaults.

Landscape Equipment - No landscaping.

Energy Use - CalEEMod defaults.

Water And Wastewater - Outdoor use includes water used for panel washing. General light industry for construction water use only.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - In accordance with MM-AQ-1 and MM-AQ-2.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	25
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Annual

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblEnergyUse	LightingElect	2.93	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	T24E	2.20	0.00
tblEnergyUse	T24NG	15.36	0.00
tblOnRoadDust	PhaseName		Demolition
tblOnRoadDust	PhaseName		Site Preparation
tblOnRoadDust	PhaseName		Grading
tblOnRoadDust	PhaseName		Building Construction
tblOnRoadDust	PhaseName		Paving
tblOnRoadDust	PhaseName		Architectural Coating
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00

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tblTripsAndVMT	PhaseName		Demolition
tblTripsAndVMT	PhaseName		Site Preparation
tblTripsAndVMT	PhaseName		Grading
tblTripsAndVMT	PhaseName		Building Construction
tblTripsAndVMT	PhaseName		Paving
tblTripsAndVMT	PhaseName		Architectural Coating
tblTripsAndVMT	VendorTripNumber	1.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	5.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	2.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	AerobicPercent	87.46	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00
tblWater	OutdoorWaterUseRate	381,267.56	8,146,286.00
tblWater	OutdoorWaterUseRate	0.00	211,803,432.00
tblWater	SepticTankPercent	10.33	100.00

2.0 Emissions Summary

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Annual

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					
2022	0.0387	0.3922	0.3999	6.7000e-004	2.9600e-003	0.0202	0.0232	9.7000e-004	0.0187	0.0196	0.0000	59.0103	59.0103	0.0173	0.0000	59.4418
2023	0.0553	0.0274	0.0341	6.0000e-005	4.8000e-004	1.3200e-003	1.8000e-003	1.3000e-004	1.2400e-003	1.3700e-003	0.0000	5.0413	5.0413	1.2300e-003	0.0000	5.0721
Maximum	0.0553	0.3922	0.3999	6.7000e-004	2.9600e-003	0.0202	0.0232	9.7000e-004	0.0187	0.0196	0.0000	59.0103	59.0103	0.0173	0.0000	59.4418

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					
2022	8.4800e-003	0.0425	0.4306	6.7000e-004	2.4000e-003	1.0400e-003	3.4300e-003	7.3000e-004	1.0400e-003	1.7700e-003	0.0000	59.0102	59.0102	0.0173	0.0000	59.4417
2023	0.0529	3.1500e-003	0.0348	6.0000e-005	4.8000e-004	8.0000e-005	5.6000e-004	1.3000e-004	8.0000e-005	2.1000e-004	0.0000	5.0413	5.0413	1.2300e-003	0.0000	5.0721
Maximum	0.0529	0.0425	0.4306	6.7000e-004	2.4000e-003	1.0400e-003	3.4300e-003	7.3000e-004	1.0400e-003	1.7700e-003	0.0000	59.0102	59.0102	0.0173	0.0000	59.4417

	ROG	NOx	CO	SO2	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	34.68	89.11	-7.25	0.00	16.28	94.80	84.02	21.82	94.37	90.58	0.00	0.00	0.00	0.00	0.00	0.00

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-1-2022	10-31-2022	0.2561	0.0300
2	11-1-2022	1-31-2023	0.2545	0.0766
		Highest	0.2561	0.0766

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	0.0228	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.0000e-005	8.0000e-005	0.0000	0.0000	9.0000e-005
Energy	7.0000e-005	6.0000e-004	5.0000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	11.2646	11.2646	4.5000e-004	1.0000e-004	11.3064
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.6618	0.0000	0.6618	0.0391	0.0000	1.6395
Water						0.0000	0.0000		0.0000	0.0000	0.0000	781.1773	781.1773	0.1735	7.1500e-003	787.6468
Total	0.0229	6.0000e-004	5.4000e-004	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	5.0000e-005	5.0000e-005	0.6618	792.4420	793.1037	0.2131	7.2500e-003	800.5927

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Annual

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	0.0228	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.0000e-005	8.0000e-005	0.0000	0.0000	9.0000e-005
Energy	7.0000e-005	6.0000e-004	5.0000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	11.2646	11.2646	4.5000e-004	1.0000e-004	11.3064
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.6618	0.0000	0.6618	0.0391	0.0000	1.6395
Water						0.0000	0.0000		0.0000	0.0000	0.0000	781.1773	781.1773	0.1735	7.1500e-003	787.6468
Total	0.0229	6.0000e-004	5.4000e-004	0.0000	0.0000	5.0000e-005	5.0000e-005	0.0000	5.0000e-005	5.0000e-005	0.6618	792.4420	793.1037	0.2131	7.2500e-003	800.5927

	ROG	NOx	CO	SO2	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**

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/1/2022	8/12/2022	5	10	
2	Site Preparation	Site Preparation	8/13/2022	8/15/2022	5	1	
3	Grading	Grading	8/16/2022	8/17/2022	5	2	
4	Building Construction	Building Construction	8/18/2022	1/4/2023	5	100	
5	Paving	Paving	1/5/2023	1/11/2023	5	5	
6	Architectural Coating	Architectural Coating	1/12/2023	1/18/2023	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 6,750; Non-Residential Outdoor: 2,250; Striped Parking Area: 0
(Architectural Coating – sqft)

OffRoad Equipment

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Annual

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00		10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	6.00	0.00		10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00		10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	2.00	2.00		10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00		10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	2.00		10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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					
Off-Road	3.5500e-003	0.0321	0.0374	6.0000e-005		1.6900e-003	1.6900e-003		1.6100e-003	1.6100e-003	0.0000	5.2068	5.2068	9.6000e-004	0.0000	5.2308
Total	3.5500e-003	0.0321	0.0374	6.0000e-005		1.6900e-003	1.6900e-003		1.6100e-003	1.6100e-003	0.0000	5.2068	5.2068	9.6000e-004	0.0000	5.2308

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3.2 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.4000e-004	1.3100e-003	0.0000	4.0000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3243	0.3243	1.0000e-005	0.0000	0.3246
Total	1.8000e-004	1.4000e-004	1.3100e-003	0.0000	4.0000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3243	0.3243	1.0000e-005	0.0000	0.3246

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.6000e-004	2.8700e-003	0.0393	6.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	5.2068	5.2068	9.6000e-004	0.0000	5.2308
Total	6.6000e-004	2.8700e-003	0.0393	6.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	5.2068	5.2068	9.6000e-004	0.0000	5.2308

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3.2 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.8000e-004	1.4000e-004	1.3100e-003	0.0000	4.0000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3243	0.3243	1.0000e-005	0.0000	0.3246
Total	1.8000e-004	1.4000e-004	1.3100e-003	0.0000	4.0000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3243	0.3243	1.0000e-005	0.0000	0.3246

3.3 Site Preparation - 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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-004	3.4700e-003	1.9800e-003	0.0000		1.3000e-004	1.3000e-004		1.2000e-004	1.2000e-004	0.0000	0.4275	0.4275	1.4000e-004	0.0000	0.4310
Total	2.9000e-004	3.4700e-003	1.9800e-003	0.0000	2.7000e-004	1.3000e-004	4.0000e-004	3.0000e-005	1.2000e-004	1.5000e-004	0.0000	0.4275	0.4275	1.4000e-004	0.0000	0.4310

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3.3 Site Preparation - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0195	0.0195	0.0000	0.0000	0.0195
Total	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0195	0.0195	0.0000	0.0000	0.0195

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2000e-004	0.0000	1.2000e-004	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0000e-005	2.6000e-004	2.6600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.4275	0.4275	1.4000e-004	0.0000	0.4310
Total	6.0000e-005	2.6000e-004	2.6600e-003	0.0000	1.2000e-004	1.0000e-005	1.3000e-004	1.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.4275	0.4275	1.4000e-004	0.0000	0.4310

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3.3 Site Preparation - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0195	0.0195	0.0000	0.0000	0.0195
Total	1.0000e-005	1.0000e-005	8.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0195	0.0195	0.0000	0.0000	0.0195

3.4 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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.1000e-004	6.4100e-003	7.4700e-003	1.0000e-005		3.4000e-004	3.4000e-004		3.2000e-004	3.2000e-004	0.0000	1.0414	1.0414	1.9000e-004	0.0000	1.0462
Total	7.1000e-004	6.4100e-003	7.4700e-003	1.0000e-005	7.5000e-004	3.4000e-004	1.0900e-003	4.1000e-004	3.2000e-004	7.3000e-004	0.0000	1.0414	1.0414	1.9000e-004	0.0000	1.0462

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3.4 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.6000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0649	0.0649	0.0000	0.0000	0.0649
Total	4.0000e-005	3.0000e-005	2.6000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0649	0.0649	0.0000	0.0000	0.0649

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					3.4000e-004	0.0000	3.4000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3000e-004	5.7000e-004	7.8500e-003	1.0000e-005		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	1.0414	1.0414	1.9000e-004	0.0000	1.0462
Total	1.3000e-004	5.7000e-004	7.8500e-003	1.0000e-005	3.4000e-004	2.0000e-005	3.6000e-004	1.9000e-004	2.0000e-005	2.1000e-004	0.0000	1.0414	1.0414	1.9000e-004	0.0000	1.0462

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3.4 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.6000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0649	0.0649	0.0000	0.0000	0.0649
Total	4.0000e-005	3.0000e-005	2.6000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0649	0.0649	0.0000	0.0000	0.0649

3.5 Building Construction - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0333	0.3408	0.3469	5.5000e-004		0.0180	0.0180		0.0166	0.0166	0.0000	48.5716	48.5716	0.0157	0.0000	48.9644
Total	0.0333	0.3408	0.3469	5.5000e-004		0.0180	0.0180		0.0166	0.0166	0.0000	48.5716	48.5716	0.0157	0.0000	48.9644

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3.5 Building Construction - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.7000e-004	9.0400e-003	1.9600e-003	3.0000e-005	6.5000e-004	1.0000e-005	6.6000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	2.7252	2.7252	2.3000e-004	0.0000	2.7309
Worker	3.5000e-004	2.6000e-004	2.5400e-003	1.0000e-005	7.8000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6292	0.6292	2.0000e-005	0.0000	0.6296
Total	6.2000e-004	9.3000e-003	4.5000e-003	4.0000e-005	1.4300e-003	1.0000e-005	1.4500e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	3.3543	3.3543	2.5000e-004	0.0000	3.3605

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	6.7700e-003	0.0294	0.3747	5.5000e-004		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004	0.0000	48.5716	48.5716	0.0157	0.0000	48.9643
Total	6.7700e-003	0.0294	0.3747	5.5000e-004		9.0000e-004	9.0000e-004		9.0000e-004	9.0000e-004	0.0000	48.5716	48.5716	0.0157	0.0000	48.9643

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3.5 Building Construction - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.7000e-004	9.0400e-003	1.9600e-003	3.0000e-005	6.5000e-004	1.0000e-005	6.6000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	2.7252	2.7252	2.3000e-004	0.0000	2.7309
Worker	3.5000e-004	2.6000e-004	2.5400e-003	1.0000e-005	7.8000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6292	0.6292	2.0000e-005	0.0000	0.6296
Total	6.2000e-004	9.3000e-003	4.5000e-003	4.0000e-005	1.4300e-003	1.0000e-005	1.4500e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	3.3543	3.3543	2.5000e-004	0.0000	3.3605

3.5 Building Construction - 2023**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	9.5000e-004	9.6300e-003	0.0107	2.0000e-005		4.8000e-004	4.8000e-004		4.4000e-004	4.4000e-004	0.0000	1.5031	1.5031	4.9000e-004	0.0000	1.5153
Total	9.5000e-004	9.6300e-003	0.0107	2.0000e-005		4.8000e-004	4.8000e-004		4.4000e-004	4.4000e-004	0.0000	1.5031	1.5031	4.9000e-004	0.0000	1.5153

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3.5 Building Construction - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.2000e-004	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0822	0.0822	1.0000e-005	0.0000	0.0823
Worker	1.0000e-005	1.0000e-005	7.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0187	0.0187	0.0000	0.0000	0.0187
Total	2.0000e-005	2.3000e-004	1.2000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1009	0.1009	1.0000e-005	0.0000	0.1011

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	2.1000e-004	9.1000e-004	0.0116	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.5031	1.5031	4.9000e-004	0.0000	1.5153
Total	2.1000e-004	9.1000e-004	0.0116	2.0000e-005		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	1.5031	1.5031	4.9000e-004	0.0000	1.5153

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3.5 Building Construction - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	2.2000e-004	5.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0822	0.0822	1.0000e-005	0.0000	0.0823
Worker	1.0000e-005	1.0000e-005	7.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0187	0.0187	0.0000	0.0000	0.0187
Total	2.0000e-005	2.3000e-004	1.2000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1009	0.1009	1.0000e-005	0.0000	0.1011

3.6 Paving - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.5300e-003	0.0138	0.0176	3.0000e-005		6.6000e-004	6.6000e-004		6.2000e-004	6.2000e-004	0.0000	2.3498	2.3498	6.8000e-004	0.0000	2.3669
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.5300e-003	0.0138	0.0176	3.0000e-005		6.6000e-004	6.6000e-004		6.2000e-004	6.2000e-004	0.0000	2.3498	2.3498	6.8000e-004	0.0000	2.3669

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3.6 Paving - 2023**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	1.5000e-004	1.1000e-004	1.0700e-003	0.0000	3.6000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2809	0.2809	1.0000e-005	0.0000	0.2811
Total	1.5000e-004	1.1000e-004	1.0700e-003	0.0000	3.6000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2809	0.2809	1.0000e-005	0.0000	0.2811

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	2.8000e-004	1.2100e-003	0.0173	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.3498	2.3498	6.8000e-004	0.0000	2.3669
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.8000e-004	1.2100e-003	0.0173	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.3498	2.3498	6.8000e-004	0.0000	2.3669

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3.6 Paving - 2023**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	1.5000e-004	1.1000e-004	1.0700e-003	0.0000	3.6000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2809	0.2809	1.0000e-005	0.0000	0.2811
Total	1.5000e-004	1.1000e-004	1.0700e-003	0.0000	3.6000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.2809	0.2809	1.0000e-005	0.0000	0.2811

3.7 Architectural Coating - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0521					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8000e-004	3.2600e-003	4.5300e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6393
Total	0.0526	3.2600e-003	4.5300e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6393

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3.7 Architectural Coating - 2023**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	3.6000e-004	9.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1370	0.1370	1.0000e-005	0.0000	0.1372
Worker	2.0000e-005	1.0000e-005	1.2000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0312	0.0312	0.0000	0.0000	0.0312
Total	3.0000e-005	3.7000e-004	2.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1682	0.1682	1.0000e-005	0.0000	0.1685

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0521					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.0000e-005	3.2000e-004	4.5800e-003	1.0000e-005		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6393
Total	0.0522	3.2000e-004	4.5800e-003	1.0000e-005		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6393

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3.7 Architectural Coating - 2023**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	3.6000e-004	9.0000e-005	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1370	0.1370	1.0000e-005	0.0000	0.1372
Worker	2.0000e-005	1.0000e-005	1.2000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0312	0.0312	0.0000	0.0000	0.0312
Total	3.0000e-005	3.7000e-004	2.1000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1682	0.1682	1.0000e-005	0.0000	0.1685

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	0.00	0.00	0.00		
General Light Industry	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.545862	0.034394	0.171599	0.103299	0.016338	0.005100	0.010433	0.099439	0.001620	0.001949	0.008107	0.000868	0.000992
General Light Industry	0.545862	0.034394	0.171599	0.103299	0.016338	0.005100	0.010433	0.099439	0.001620	0.001949	0.008107	0.000868	0.000992

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	10.6165	10.6165	4.4000e-004	9.0000e-005	10.6545
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	10.6165	10.6165	4.4000e-004	9.0000e-005	10.6545
NaturalGas Mitigated	7.0000e-005	6.0000e-004	5.0000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6481	0.6481	1.0000e-005	1.0000e-005	0.6520
NaturalGas Unmitigated	7.0000e-005	6.0000e-004	5.0000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6481	0.6481	1.0000e-005	1.0000e-005	0.6520

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5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	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
General Office Building	12145	7.0000e-005	6.0000e-004	5.0000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6481	0.6481	1.0000e-005	1.0000e-005	0.6520
Total		7.0000e-005	6.0000e-004	5.0000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6481	0.6481	1.0000e-005	1.0000e-005	0.6520

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Light Industry	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
General Office Building	12145	7.0000e-005	6.0000e-004	5.0000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6481	0.6481	1.0000e-005	1.0000e-005	0.6520
Total		7.0000e-005	6.0000e-004	5.0000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.6481	0.6481	1.0000e-005	1.0000e-005	0.6520

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5.3 Energy by Land Use - Electricity**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
General Office Building	33320	10.6165	4.4000e-004	9.0000e-005	10.6545
Total		10.6165	4.4000e-004	9.0000e-005	10.6545

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
General Office Building	33320	10.6165	4.4000e-004	9.0000e-005	10.6545
Total		10.6165	4.4000e-004	9.0000e-005	10.6545

6.0 Area Detail**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0228	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.0000e-005	8.0000e-005	0.0000	0.0000	9.0000e-005
Unmitigated	0.0228	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.0000e-005	8.0000e-005	0.0000	0.0000	9.0000e-005

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	5.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0176					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.0000e-005	8.0000e-005	0.0000	0.0000	9.0000e-005
Total	0.0228	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.0000e-005	8.0000e-005	0.0000	0.0000	9.0000e-005

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6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	5.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0176					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.0000e-005	8.0000e-005	0.0000	0.0000	9.0000e-005
Total	0.0228	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.0000e-005	8.0000e-005	0.0000	0.0000	9.0000e-005

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	781.1773	0.1735	7.1500e-003	787.6468
Unmitigated	781.1773	0.1735	7.1500e-003	787.6468

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0 / 211.803	749.7596	0.0310	6.4000e-003	752.4419
General Office Building	0.622068 / 8.14629	31.4177	0.1426	7.5000e-004	35.2049
Total		781.1773	0.1735	7.1500e-003	787.6468

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0 / 211.803	749.7596	0.0310	6.4000e-003	752.4419
General Office Building	0.622068 / 8.14629	31.4177	0.1426	7.5000e-004	35.2049
Total		781.1773	0.1735	7.1500e-003	787.6468

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.6618	0.0391	0.0000	1.6395
Unmitigated	0.6618	0.0391	0.0000	1.6395

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8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
General Office Building	3.26	0.6618	0.0391	0.0000	1.6395
Total		0.6618	0.0391	0.0000	1.6395

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0	0.0000	0.0000	0.0000	0.0000
General Office Building	3.26	0.6618	0.0391	0.0000	1.6395
Total		0.6618	0.0391	0.0000	1.6395

9.0 Operational Offroad

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

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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Summer

Arica and Victory Pass Solar O&M Building

Mojave Desert Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	3.50	1000sqft	0.08	3,500.00	0
General Light Industry	1.00	1000sqft	0.02	1,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on project description. Industrial for construction water use only.

Construction Phase - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

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Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Grading - CalEEMod defaults.

Demolition - No demo.

Trips and VMT - CalEEMod defaults. Odd trips rounded up to account for whole round trips.

On-road Fugitive Dust - CalEEMod defaults.

Architectural Coating - CalEEMod defaults.

Vehicle Trips - Calculated outside of CalEEMod.

Consumer Products - CalEEMod defaults.

Area Coating - CalEEMod defaults.

Landscape Equipment - No landscaping.

Energy Use - CalEEMod defaults.

Water And Wastewater - Outdoor use includes water used for panel washing. General light industry for construction water use only.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - In accordance with MM-AQ-1 and MM-AQ-2.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	25
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblEnergyUse	LightingElect	2.93	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	T24E	2.20	0.00
tblEnergyUse	T24NG	15.36	0.00
tblOnRoadDust	PhaseName		Demolition
tblOnRoadDust	PhaseName		Site Preparation
tblOnRoadDust	PhaseName		Grading
tblOnRoadDust	PhaseName		Building Construction
tblOnRoadDust	PhaseName		Paving
tblOnRoadDust	PhaseName		Architectural Coating
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00

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tblTripsAndVMT	PhaseName		Demolition
tblTripsAndVMT	PhaseName		Site Preparation
tblTripsAndVMT	PhaseName		Grading
tblTripsAndVMT	PhaseName		Building Construction
tblTripsAndVMT	PhaseName		Paving
tblTripsAndVMT	PhaseName		Architectural Coating
tblTripsAndVMT	VendorTripNumber	1.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	5.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	2.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	AerobicPercent	87.46	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00
tblWater	OutdoorWaterUseRate	381,267.56	8,146,286.00
tblWater	OutdoorWaterUseRate	0.00	211,803,432.00
tblWater	SepticTankPercent	10.33	100.00

2.0 Emissions Summary

Arica and Victory Pass Solar O&M Building - Mojave Desert 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					
2022	0.7514	7.2164	7.7754	0.0128	0.8349	0.3723	1.1729	0.4356	0.3425	0.7586	0.0000	1,226.780 5	1,226.780 5	0.3624	0.0000	1,232.136 5
2023	21.0614	6.5679	7.5232	0.0126	0.1479	0.3205	0.4130	0.0392	0.2948	0.3031	0.0000	1,181.414 6	1,181.414 6	0.3613	0.0000	1,190.446 3
Maximum	21.0614	7.2164	7.7754	0.0128	0.8349	0.3723	1.1729	0.4356	0.3425	0.7586	0.0000	1,226.780 5	1,226.780 5	0.3624	0.0000	1,232.136 5

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	lb/day										lb/day					
2022	0.1746	0.7959	8.1570	0.0128	0.4209	0.0190	0.4391	0.2080	0.0190	0.2261	0.0000	1,226.780 5	1,226.780 5	0.3624	0.0000	1,232.136 5
2023	20.8994	0.7545	7.8134	0.0126	0.1479	0.0189	0.1637	0.0392	0.0188	0.0550	0.0000	1,181.414 6	1,181.414 6	0.3613	0.0000	1,190.446 3
Maximum	20.8994	0.7959	8.1570	0.0128	0.4209	0.0190	0.4391	0.2080	0.0190	0.2261	0.0000	1,226.780 5	1,226.780 5	0.3624	0.0000	1,232.136 5

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	3.39	88.75	-4.39	0.00	42.13	94.54	61.99	47.93	94.07	73.52	0.00	0.00	0.00	0.00	0.00	0.00

Arica and Victory Pass Solar O&M Building - Mojave Desert 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	0.1249	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000		1.0500e-003
Energy	3.6000e-004	3.2600e-003	2.7400e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		3.9146	3.9146	8.0000e-005	7.0000e-005	3.9379
Mobile	0.0000	0.0000	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	0.1253	3.2600e-003	3.2000e-003	2.0000e-005	0.0000	2.5000e-004	2.5000e-004	0.0000	2.5000e-004	2.5000e-004		3.9156	3.9156	8.0000e-005	7.0000e-005	3.9389

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	0.1249	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000		1.0500e-003
Energy	3.6000e-004	3.2600e-003	2.7400e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		3.9146	3.9146	8.0000e-005	7.0000e-005	3.9379
Mobile	0.0000	0.0000	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	0.1253	3.2600e-003	3.2000e-003	2.0000e-005	0.0000	2.5000e-004	2.5000e-004	0.0000	2.5000e-004	2.5000e-004		3.9156	3.9156	8.0000e-005	7.0000e-005	3.9389

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Summer

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

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/1/2022	8/12/2022	5	10	
2	Site Preparation	Site Preparation	8/13/2022	8/15/2022	5	1	
3	Grading	Grading	8/16/2022	8/17/2022	5	2	
4	Building Construction	Building Construction	8/18/2022	1/4/2023	5	100	
5	Paving	Paving	1/5/2023	1/11/2023	5	5	
6	Architectural Coating	Architectural Coating	1/12/2023	1/18/2023	5	5	

Acres of Grading (Site Preparation Phase): 0.5**Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 6,750; Non-Residential Outdoor: 2,250; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Summer

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00		10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	6.00	0.00		10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00		10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	2.00	2.00		10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00		10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	2.00		10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Summer

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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					
Off-Road	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225		1,147.9025	1,147.9025	0.2119		1,153.2001
Total	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225		1,147.9025	1,147.9025	0.2119		1,153.2001

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Summer

3.2 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	0.0000	0.0000	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	0.0420	0.0246	0.3061	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.8780	78.8780	2.3400e-003		78.9365
Total	0.0420	0.0246	0.3061	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.8780	78.8780	2.3400e-003		78.9365

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	0.1326	0.5747	7.8509	0.0120		0.0177	0.0177		0.0177	0.0177	0.0000	1,147.9025	1,147.9025	0.2119		1,153.2001
Total	0.1326	0.5747	7.8509	0.0120		0.0177	0.0177		0.0177	0.0177	0.0000	1,147.9025	1,147.9025	0.2119		1,153.2001

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Summer

3.2 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	0.0000	0.0000	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	0.0420	0.0246	0.3061	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.8780	78.8780	2.3400e-003		78.9365
Total	0.0420	0.0246	0.3061	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.8780	78.8780	2.3400e-003		78.9365

3.3 Site Preparation - 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					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367		942.5179	942.5179	0.3048		950.1386
Total	0.5797	6.9332	3.9597	9.7300e-003	0.5303	0.2573	0.7876	0.0573	0.2367	0.2940		942.5179	942.5179	0.3048		950.1386

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Summer

3.3 Site Preparation - 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	0.0252	0.0147	0.1836	4.8000e-004	0.0493	3.1000e-004	0.0496	0.0131	2.8000e-004	0.0134		47.3268	47.3268	1.4000e-003		47.3619
Total	0.0252	0.0147	0.1836	4.8000e-004	0.0493	3.1000e-004	0.0496	0.0131	2.8000e-004	0.0134		47.3268	47.3268	1.4000e-003		47.3619

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	0.1191	0.5162	5.3170	9.7300e-003		0.0159	0.0159		0.0159	0.0159	0.0000	942.5179	942.5179	0.3048		950.1386
Total	0.1191	0.5162	5.3170	9.7300e-003	0.2386	0.0159	0.2545	0.0258	0.0159	0.0416	0.0000	942.5179	942.5179	0.3048		950.1386

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Summer

3.3 Site Preparation - 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	0.0252	0.0147	0.1836	4.8000e-004	0.0493	3.1000e-004	0.0496	0.0131	2.8000e-004	0.0134		47.3268	47.3268	1.4000e-003		47.3619
Total	0.0252	0.0147	0.1836	4.8000e-004	0.0493	3.1000e-004	0.0496	0.0131	2.8000e-004	0.0134		47.3268	47.3268	1.4000e-003		47.3619

3.4 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					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225		1,147.9025	1,147.9025	0.2119		1,153.2001
Total	0.7094	6.4138	7.4693	0.0120	0.7528	0.3375	1.0903	0.4138	0.3225	0.7363		1,147.9025	1,147.9025	0.2119		1,153.2001

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Summer

3.4 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	0.0000	0.0000	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	0.0420	0.0246	0.3061	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.8780	78.8780	2.3400e-003		78.9365
Total	0.0420	0.0246	0.3061	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.8780	78.8780	2.3400e-003		78.9365

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3387	0.0000	0.3387	0.1862	0.0000	0.1862			0.0000			0.0000
Off-Road	0.1326	0.5747	7.8509	0.0120		0.0177	0.0177		0.0177	0.0177	0.0000	1,147.9025	1,147.9025	0.2119		1,153.2001
Total	0.1326	0.5747	7.8509	0.0120	0.3387	0.0177	0.3564	0.1862	0.0177	0.2039	0.0000	1,147.9025	1,147.9025	0.2119		1,153.2001

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Summer

3.4 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	0.0000	0.0000	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	0.0420	0.0246	0.3061	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.8780	78.8780	2.3400e-003		78.9365
Total	0.0420	0.0246	0.3061	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.8780	78.8780	2.3400e-003		78.9365

3.5 Building Construction - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422		1,103.9393	1,103.9393	0.3570		1,112.8652
Total	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422		1,103.9393	1,103.9393	0.3570		1,112.8652

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Summer

3.5 Building Construction - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.4900e-003	0.1858	0.0365	6.0000e-004	0.0136	2.5000e-004	0.0138	3.9100e-003	2.4000e-004	4.1500e-003		63.2035	63.2035	4.9200e-003		63.3264
Worker	8.4000e-003	4.9100e-003	0.0612	1.6000e-004	0.0164	1.0000e-004	0.0165	4.3600e-003	9.0000e-005	4.4500e-003		15.7756	15.7756	4.7000e-004		15.7873
Total	0.0139	0.1907	0.0977	7.6000e-004	0.0300	3.5000e-004	0.0303	8.2700e-003	3.3000e-004	8.6000e-003		78.9791	78.9791	5.3900e-003		79.1137

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	0.1397	0.6052	7.7261	0.0114		0.0186	0.0186		0.0186	0.0186	0.0000	1,103.9393	1,103.9393	0.3570		1,112.8652
Total	0.1397	0.6052	7.7261	0.0114		0.0186	0.0186		0.0186	0.0186	0.0000	1,103.9393	1,103.9393	0.3570		1,112.8652

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Summer

3.5 Building Construction - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.4900e-003	0.1858	0.0365	6.0000e-004	0.0136	2.5000e-004	0.0138	3.9100e-003	2.4000e-004	4.1500e-003		63.2035	63.2035	4.9200e-003		63.3264
Worker	8.4000e-003	4.9100e-003	0.0612	1.6000e-004	0.0164	1.0000e-004	0.0165	4.3600e-003	9.0000e-005	4.4500e-003		15.7756	15.7756	4.7000e-004		15.7873
Total	0.0139	0.1907	0.0977	7.6000e-004	0.0300	3.5000e-004	0.0303	8.2700e-003	3.3000e-004	8.6000e-003		78.9791	78.9791	5.3900e-003		79.1137

3.5 Building Construction - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6322	6.4186	7.0970	0.0114		0.3203	0.3203		0.2946	0.2946		1,104.6089	1,104.6089	0.3573		1,113.5402
Total	0.6322	6.4186	7.0970	0.0114		0.3203	0.3203		0.2946	0.2946		1,104.6089	1,104.6089	0.3573		1,113.5402

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Summer

3.5 Building Construction - 2023**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	4.3600e-003	0.1449	0.0314	5.9000e-004	0.0136	1.3000e-004	0.0137	3.9100e-003	1.3000e-004	4.0300e-003		61.6237	61.6237	3.6000e-003		61.7137
Worker	7.8300e-003	4.4100e-003	0.0558	1.5000e-004	0.0164	1.0000e-004	0.0165	4.3600e-003	9.0000e-005	4.4500e-003		15.1820	15.1820	4.2000e-004		15.1924
Total	0.0122	0.1493	0.0872	7.4000e-004	0.0300	2.3000e-004	0.0302	8.2700e-003	2.2000e-004	8.4800e-003		76.8057	76.8057	4.0200e-003		76.9061

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	0.1397	0.6052	7.7261	0.0114		0.0186	0.0186		0.0186	0.0186	0.0000	1,104.6089	1,104.6089	0.3573		1,113.5402
Total	0.1397	0.6052	7.7261	0.0114		0.0186	0.0186		0.0186	0.0186	0.0000	1,104.6089	1,104.6089	0.3573		1,113.5402

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Summer

3.5 Building Construction - 2023**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	4.3600e-003	0.1449	0.0314	5.9000e-004	0.0136	1.3000e-004	0.0137	3.9100e-003	1.3000e-004	4.0300e-003		61.6237	61.6237	3.6000e-003		61.7137
Worker	7.8300e-003	4.4100e-003	0.0558	1.5000e-004	0.0164	1.0000e-004	0.0165	4.3600e-003	9.0000e-005	4.4500e-003		15.1820	15.1820	4.2000e-004		15.1924
Total	0.0122	0.1493	0.0872	7.4000e-004	0.0300	2.3000e-004	0.0302	8.2700e-003	2.2000e-004	8.4800e-003		76.8057	76.8057	4.0200e-003		76.9061

3.6 Paving - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6112	5.5046	7.0209	0.0113		0.2643	0.2643		0.2466	0.2466		1,036.0878	1,036.0878	0.3018		1,043.6331
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6112	5.5046	7.0209	0.0113		0.2643	0.2643		0.2466	0.2466		1,036.0878	1,036.0878	0.3018		1,043.6331

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Summer

3.6 Paving - 2023**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	0.0705	0.0397	0.5022	1.3700e-003	0.1479	8.9000e-004	0.1488	0.0392	8.2000e-004	0.0400		136.6380	136.6380	3.7500e-003		136.7317
Total	0.0705	0.0397	0.5022	1.3700e-003	0.1479	8.9000e-004	0.1488	0.0392	8.2000e-004	0.0400		136.6380	136.6380	3.7500e-003		136.7317

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	0.1119	0.4851	6.9028	0.0113		0.0149	0.0149		0.0149	0.0149	0.0000	1,036.0878	1,036.0878	0.3018		1,043.6331
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.1119	0.4851	6.9028	0.0113		0.0149	0.0149		0.0149	0.0149	0.0000	1,036.0878	1,036.0878	0.3018		1,043.6331

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Summer

3.6 Paving - 2023**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	0.0705	0.0397	0.5022	1.3700e-003	0.1479	8.9000e-004	0.1488	0.0392	8.2000e-004	0.0400		136.6380	136.6380	3.7500e-003		136.7317
Total	0.0705	0.0397	0.5022	1.3700e-003	0.1479	8.9000e-004	0.1488	0.0392	8.2000e-004	0.0400		136.6380	136.6380	3.7500e-003		136.7317

3.7 Architectural Coating - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	20.8575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	21.0492	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Summer

3.7 Architectural Coating - 2023**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	4.3600e-003	0.1449	0.0314	5.9000e-004	0.0136	1.3000e-004	0.0137	3.9100e-003	1.3000e-004	4.0300e-003		61.6237	61.6237	3.6000e-003		61.7137
Worker	7.8300e-003	4.4100e-003	0.0558	1.5000e-004	0.0164	1.0000e-004	0.0165	4.3600e-003	9.0000e-005	4.4500e-003		15.1820	15.1820	4.2000e-004		15.1924
Total	0.0122	0.1493	0.0872	7.4000e-004	0.0300	2.3000e-004	0.0302	8.2700e-003	2.2000e-004	8.4800e-003		76.8057	76.8057	4.0200e-003		76.9061

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	20.8575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0168		281.8690
Total	20.8872	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0168		281.8690

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Summer

3.7 Architectural Coating - 2023**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	4.3600e-003	0.1449	0.0314	5.9000e-004	0.0136	1.3000e-004	0.0137	3.9100e-003	1.3000e-004	4.0300e-003		61.6237	61.6237	3.6000e-003		61.7137
Worker	7.8300e-003	4.4100e-003	0.0558	1.5000e-004	0.0164	1.0000e-004	0.0165	4.3600e-003	9.0000e-005	4.4500e-003		15.1820	15.1820	4.2000e-004		15.1924
Total	0.0122	0.1493	0.0872	7.4000e-004	0.0300	2.3000e-004	0.0302	8.2700e-003	2.2000e-004	8.4800e-003		76.8057	76.8057	4.0200e-003		76.9061

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	0.00	0.00	0.00		
General Light Industry	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.545862	0.034394	0.171599	0.103299	0.016338	0.005100	0.010433	0.099439	0.001620	0.001949	0.008107	0.000868	0.000992
General Light Industry	0.545862	0.034394	0.171599	0.103299	0.016338	0.005100	0.010433	0.099439	0.001620	0.001949	0.008107	0.000868	0.000992

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.6000e-004	3.2600e-003	2.7400e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		3.9146	3.9146	8.0000e-005	7.0000e-005	3.9379
NaturalGas Unmitigated	3.6000e-004	3.2600e-003	2.7400e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		3.9146	3.9146	8.0000e-005	7.0000e-005	3.9379

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Summer

5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	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
General Office Building	33.274	3.6000e-004	3.2600e-003	2.7400e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		3.9146	3.9146	8.0000e-005	7.0000e-005	3.9379
Total		3.6000e-004	3.2600e-003	2.7400e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		3.9146	3.9146	8.0000e-005	7.0000e-005	3.9379

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	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
General Office Building	0.033274	3.6000e-004	3.2600e-003	2.7400e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		3.9146	3.9146	8.0000e-005	7.0000e-005	3.9379
Total		3.6000e-004	3.2600e-003	2.7400e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		3.9146	3.9146	8.0000e-005	7.0000e-005	3.9379

6.0 Area Detail**6.1 Mitigation Measures Area**

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1249	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000		1.0500e-003
Unmitigated	0.1249	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000		1.0500e-003

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	0.0286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0963					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000		1.0500e-003
Total	0.1249	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000		1.0500e-003

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Summer

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0963					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000		1.0500e-003
Total	0.1249	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000		1.0500e-003

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

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

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Summer

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

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

Equipment Type	Number
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11.0 Vegetation

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Winter

Arica and Victory Pass Solar O&M Building

Mojave Desert Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	3.50	1000sqft	0.08	3,500.00	0
General Light Industry	1.00	1000sqft	0.02	1,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on project description. Industrial for construction water use only.

Construction Phase - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Winter

Off-road Equipment - CalEEMod defaults.

Off-road Equipment - CalEEMod defaults.

Grading - CalEEMod defaults.

Demolition - No demo.

Trips and VMT - CalEEMod defaults. Odd trips rounded up to account for whole round trips.

On-road Fugitive Dust - CalEEMod defaults.

Architectural Coating - CalEEMod defaults.

Vehicle Trips - Calculated outside of CalEEMod.

Consumer Products - CalEEMod defaults.

Area Coating - CalEEMod defaults.

Landscape Equipment - No landscaping.

Energy Use - CalEEMod defaults.

Water And Wastewater - Outdoor use includes water used for panel washing. General light industry for construction water use only.

Solid Waste - CalEEMod defaults.

Construction Off-road Equipment Mitigation - In accordance with MM-AQ-1 and MM-AQ-2.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	25
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Winter

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblEnergyUse	LightingElect	2.93	0.00
tblEnergyUse	NT24E	5.02	0.00
tblEnergyUse	NT24NG	17.13	0.00
tblEnergyUse	T24E	2.20	0.00
tblEnergyUse	T24NG	15.36	0.00
tblOnRoadDust	PhaseName		Demolition
tblOnRoadDust	PhaseName		Site Preparation
tblOnRoadDust	PhaseName		Grading
tblOnRoadDust	PhaseName		Building Construction
tblOnRoadDust	PhaseName		Paving
tblOnRoadDust	PhaseName		Architectural Coating
tblSolidWaste	SolidWasteGenerationRate	1.24	0.00

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tblTripsAndVMT	PhaseName		Demolition
tblTripsAndVMT	PhaseName		Site Preparation
tblTripsAndVMT	PhaseName		Grading
tblTripsAndVMT	PhaseName		Building Construction
tblTripsAndVMT	PhaseName		Paving
tblTripsAndVMT	PhaseName		Architectural Coating
tblTripsAndVMT	VendorTripNumber	1.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	5.00	6.00
tblTripsAndVMT	WorkerTripNumber	0.00	2.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	1.32	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	0.68	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	6.97	0.00
tblWater	AerobicPercent	87.46	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	IndoorWaterUseRate	231,250.00	0.00
tblWater	OutdoorWaterUseRate	381,267.56	8,146,286.00
tblWater	OutdoorWaterUseRate	0.00	211,803,432.00
tblWater	SepticTankPercent	10.33	100.00

2.0 Emissions Summary

Arica and Victory Pass Solar O&M Building - Mojave Desert 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					
2022	0.7490	7.2130	7.7134	0.0127	0.8349	0.3723	1.1729	0.4356	0.3425	0.7586	0.0000	1,217.266 2	1,217.266 2	0.3630	0.0000	1,222.614 1
2023	21.0612	6.5651	7.4208	0.0125	0.1479	0.3205	0.4130	0.0392	0.2949	0.3031	0.0000	1,176.690 6	1,176.690 6	0.3617	0.0000	1,185.732 7
Maximum	21.0612	7.2130	7.7134	0.0127	0.8349	0.3723	1.1729	0.4356	0.3425	0.7586	0.0000	1,217.266 2	1,217.266 2	0.3630	0.0000	1,222.614 1

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	lb/day										lb/day					
2022	0.1722	0.7924	8.0950	0.0127	0.4209	0.0190	0.4391	0.2080	0.0190	0.2261	0.0000	1,217.266 2	1,217.266 2	0.3630	0.0000	1,222.614 1
2023	20.8993	0.7516	7.8075	0.0125	0.1479	0.0189	0.1637	0.0392	0.0188	0.0550	0.0000	1,176.690 6	1,176.690 6	0.3617	0.0000	1,185.732 7
Maximum	20.8993	0.7924	8.0950	0.0127	0.4209	0.0190	0.4391	0.2080	0.0190	0.2261	0.0000	1,217.266 2	1,217.266 2	0.3630	0.0000	1,222.614 1

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	3.39	88.79	-5.08	0.00	42.13	94.54	61.99	47.93	94.07	73.52	0.00	0.00	0.00	0.00	0.00	0.00

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Winter

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1249	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000		1.0500e-003
Energy	3.6000e-004	3.2600e-003	2.7400e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		3.9146	3.9146	8.0000e-005	7.0000e-005	3.9379
Mobile	0.0000	0.0000	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	0.1253	3.2600e-003	3.2000e-003	2.0000e-005	0.0000	2.5000e-004	2.5000e-004	0.0000	2.5000e-004	2.5000e-004		3.9156	3.9156	8.0000e-005	7.0000e-005	3.9389

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	0.1249	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000		1.0500e-003
Energy	3.6000e-004	3.2600e-003	2.7400e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		3.9146	3.9146	8.0000e-005	7.0000e-005	3.9379
Mobile	0.0000	0.0000	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	0.1253	3.2600e-003	3.2000e-003	2.0000e-005	0.0000	2.5000e-004	2.5000e-004	0.0000	2.5000e-004	2.5000e-004		3.9156	3.9156	8.0000e-005	7.0000e-005	3.9389

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Winter

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

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/1/2022	8/12/2022	5	10	
2	Site Preparation	Site Preparation	8/13/2022	8/15/2022	5	1	
3	Grading	Grading	8/16/2022	8/17/2022	5	2	
4	Building Construction	Building Construction	8/18/2022	1/4/2023	5	100	
5	Paving	Paving	1/5/2023	1/11/2023	5	5	
6	Architectural Coating	Architectural Coating	1/12/2023	1/18/2023	5	5	

Acres of Grading (Site Preparation Phase): 0.5**Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 6,750; Non-Residential Outdoor: 2,250; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Winter

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00		10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	6.00	0.00		10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00		10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	2.00	2.00		10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00		10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	2.00		10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Winter

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 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					
Off-Road	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225		1,147.9025	1,147.9025	0.2119		1,153.2001
Total	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225		1,147.9025	1,147.9025	0.2119		1,153.2001

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Winter

3.2 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	0.0000	0.0000	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	0.0396	0.0253	0.2441	7.0000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		69.3638	69.3638	2.0100e-003		69.4140
Total	0.0396	0.0253	0.2441	7.0000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		69.3638	69.3638	2.0100e-003		69.4140

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	0.1326	0.5747	7.8509	0.0120		0.0177	0.0177		0.0177	0.0177	0.0000	1,147.9025	1,147.9025	0.2119		1,153.2001
Total	0.1326	0.5747	7.8509	0.0120		0.0177	0.0177		0.0177	0.0177	0.0000	1,147.9025	1,147.9025	0.2119		1,153.2001

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Winter

3.2 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	0.0000	0.0000	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	0.0396	0.0253	0.2441	7.0000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		69.3638	69.3638	2.0100e-003		69.4140
Total	0.0396	0.0253	0.2441	7.0000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		69.3638	69.3638	2.0100e-003		69.4140

3.3 Site Preparation - 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					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367		942.5179	942.5179	0.3048		950.1386
Total	0.5797	6.9332	3.9597	9.7300e-003	0.5303	0.2573	0.7876	0.0573	0.2367	0.2940		942.5179	942.5179	0.3048		950.1386

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Winter

3.3 Site Preparation - 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	0.0238	0.0152	0.1465	4.2000e-004	0.0493	3.1000e-004	0.0496	0.0131	2.8000e-004	0.0134		41.6183	41.6183	1.2100e-003		41.6484
Total	0.0238	0.0152	0.1465	4.2000e-004	0.0493	3.1000e-004	0.0496	0.0131	2.8000e-004	0.0134		41.6183	41.6183	1.2100e-003		41.6484

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	0.1191	0.5162	5.3170	9.7300e-003		0.0159	0.0159		0.0159	0.0159	0.0000	942.5179	942.5179	0.3048		950.1386
Total	0.1191	0.5162	5.3170	9.7300e-003	0.2386	0.0159	0.2545	0.0258	0.0159	0.0416	0.0000	942.5179	942.5179	0.3048		950.1386

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Winter

3.3 Site Preparation - 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	0.0238	0.0152	0.1465	4.2000e-004	0.0493	3.1000e-004	0.0496	0.0131	2.8000e-004	0.0134		41.6183	41.6183	1.2100e-003		41.6484
Total	0.0238	0.0152	0.1465	4.2000e-004	0.0493	3.1000e-004	0.0496	0.0131	2.8000e-004	0.0134		41.6183	41.6183	1.2100e-003		41.6484

3.4 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					0.7528	0.0000	0.7528	0.4138	0.0000	0.4138			0.0000			0.0000
Off-Road	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225		1,147.9025	1,147.9025	0.2119		1,153.2001
Total	0.7094	6.4138	7.4693	0.0120	0.7528	0.3375	1.0903	0.4138	0.3225	0.7363		1,147.9025	1,147.9025	0.2119		1,153.2001

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Winter

3.4 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	0.0000	0.0000	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	0.0396	0.0253	0.2441	7.0000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		69.3638	69.3638	2.0100e-003		69.4140
Total	0.0396	0.0253	0.2441	7.0000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		69.3638	69.3638	2.0100e-003		69.4140

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3387	0.0000	0.3387	0.1862	0.0000	0.1862			0.0000			0.0000
Off-Road	0.1326	0.5747	7.8509	0.0120		0.0177	0.0177		0.0177	0.0177	0.0000	1,147.9025	1,147.9025	0.2119		1,153.2001
Total	0.1326	0.5747	7.8509	0.0120	0.3387	0.0177	0.3564	0.1862	0.0177	0.2039	0.0000	1,147.9025	1,147.9025	0.2119		1,153.2001

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Winter

3.4 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	0.0000	0.0000	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	0.0396	0.0253	0.2441	7.0000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		69.3638	69.3638	2.0100e-003		69.4140
Total	0.0396	0.0253	0.2441	7.0000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		69.3638	69.3638	2.0100e-003		69.4140

3.5 Building Construction - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422		1,103.9393	1,103.9393	0.3570		1,112.8652
Total	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422		1,103.9393	1,103.9393	0.3570		1,112.8652

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Winter

3.5 Building Construction - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.8800e-003	0.1822	0.0439	5.8000e-004	0.0136	2.6000e-004	0.0138	3.9100e-003	2.5000e-004	4.1500e-003		60.1898	60.1898	5.5700e-003		60.3291
Worker	7.9300e-003	5.0600e-003	0.0488	1.4000e-004	0.0164	1.0000e-004	0.0165	4.3600e-003	9.0000e-005	4.4500e-003		13.8728	13.8728	4.0000e-004		13.8828
Total	0.0138	0.1873	0.0927	7.2000e-004	0.0300	3.6000e-004	0.0304	8.2700e-003	3.4000e-004	8.6000e-003		74.0625	74.0625	5.9700e-003		74.2119

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	0.1397	0.6052	7.7261	0.0114		0.0186	0.0186		0.0186	0.0186	0.0000	1,103.9393	1,103.9393	0.3570		1,112.8652
Total	0.1397	0.6052	7.7261	0.0114		0.0186	0.0186		0.0186	0.0186	0.0000	1,103.9393	1,103.9393	0.3570		1,112.8652

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Winter

3.5 Building Construction - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	5.8800e-003	0.1822	0.0439	5.8000e-004	0.0136	2.6000e-004	0.0138	3.9100e-003	2.5000e-004	4.1500e-003		60.1898	60.1898	5.5700e-003		60.3291
Worker	7.9300e-003	5.0600e-003	0.0488	1.4000e-004	0.0164	1.0000e-004	0.0165	4.3600e-003	9.0000e-005	4.4500e-003		13.8728	13.8728	4.0000e-004		13.8828
Total	0.0138	0.1873	0.0927	7.2000e-004	0.0300	3.6000e-004	0.0304	8.2700e-003	3.4000e-004	8.6000e-003		74.0625	74.0625	5.9700e-003		74.2119

3.5 Building Construction - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6322	6.4186	7.0970	0.0114		0.3203	0.3203		0.2946	0.2946		1,104.6089	1,104.6089	0.3573		1,113.5402
Total	0.6322	6.4186	7.0970	0.0114		0.3203	0.3203		0.2946	0.2946		1,104.6089	1,104.6089	0.3573		1,113.5402

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Winter

3.5 Building Construction - 2023**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	4.6500e-003	0.1419	0.0370	5.6000e-004	0.0136	1.3000e-004	0.0137	3.9100e-003	1.3000e-004	4.0300e-003		58.7301	58.7301	4.0700e-003		58.8319
Worker	7.4100e-003	4.5400e-003	0.0444	1.3000e-004	0.0164	1.0000e-004	0.0165	4.3600e-003	9.0000e-005	4.4500e-003		13.3516	13.3516	3.6000e-004		13.3606
Total	0.0121	0.1464	0.0814	6.9000e-004	0.0300	2.3000e-004	0.0302	8.2700e-003	2.2000e-004	8.4800e-003		72.0818	72.0818	4.4300e-003		72.1925

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	0.1397	0.6052	7.7261	0.0114		0.0186	0.0186		0.0186	0.0186	0.0000	1,104.6089	1,104.6089	0.3573		1,113.5402
Total	0.1397	0.6052	7.7261	0.0114		0.0186	0.0186		0.0186	0.0186	0.0000	1,104.6089	1,104.6089	0.3573		1,113.5402

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Winter

3.5 Building Construction - 2023**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	4.6500e-003	0.1419	0.0370	5.6000e-004	0.0136	1.3000e-004	0.0137	3.9100e-003	1.3000e-004	4.0300e-003		58.7301	58.7301	4.0700e-003		58.8319
Worker	7.4100e-003	4.5400e-003	0.0444	1.3000e-004	0.0164	1.0000e-004	0.0165	4.3600e-003	9.0000e-005	4.4500e-003		13.3516	13.3516	3.6000e-004		13.3606
Total	0.0121	0.1464	0.0814	6.9000e-004	0.0300	2.3000e-004	0.0302	8.2700e-003	2.2000e-004	8.4800e-003		72.0818	72.0818	4.4300e-003		72.1925

3.6 Paving - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6112	5.5046	7.0209	0.0113		0.2643	0.2643		0.2466	0.2466		1,036.0878	1,036.0878	0.3018		1,043.6331
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6112	5.5046	7.0209	0.0113		0.2643	0.2643		0.2466	0.2466		1,036.0878	1,036.0878	0.3018		1,043.6331

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Winter

3.6 Paving - 2023**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	0.0667	0.0409	0.3999	1.2100e-003	0.1479	8.9000e-004	0.1488	0.0392	8.2000e-004	0.0400		120.1647	120.1647	3.2300e-003		120.2454
Total	0.0667	0.0409	0.3999	1.2100e-003	0.1479	8.9000e-004	0.1488	0.0392	8.2000e-004	0.0400		120.1647	120.1647	3.2300e-003		120.2454

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	0.1119	0.4851	6.9028	0.0113		0.0149	0.0149		0.0149	0.0149	0.0000	1,036.0878	1,036.0878	0.3018		1,043.6331
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.1119	0.4851	6.9028	0.0113		0.0149	0.0149		0.0149	0.0149	0.0000	1,036.0878	1,036.0878	0.3018		1,043.6331

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Winter

3.6 Paving - 2023**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	0.0667	0.0409	0.3999	1.2100e-003	0.1479	8.9000e-004	0.1488	0.0392	8.2000e-004	0.0400		120.1647	120.1647	3.2300e-003		120.2454
Total	0.0667	0.0409	0.3999	1.2100e-003	0.1479	8.9000e-004	0.1488	0.0392	8.2000e-004	0.0400		120.1647	120.1647	3.2300e-003		120.2454

3.7 Architectural Coating - 2023**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	20.8575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	21.0492	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Winter

3.7 Architectural Coating - 2023**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	4.6500e-003	0.1419	0.0370	5.6000e-004	0.0136	1.3000e-004	0.0137	3.9100e-003	1.3000e-004	4.0300e-003		58.7301	58.7301	4.0700e-003		58.8319
Worker	7.4100e-003	4.5400e-003	0.0444	1.3000e-004	0.0164	1.0000e-004	0.0165	4.3600e-003	9.0000e-005	4.4500e-003		13.3516	13.3516	3.6000e-004		13.3606
Total	0.0121	0.1464	0.0814	6.9000e-004	0.0300	2.3000e-004	0.0302	8.2700e-003	2.2000e-004	8.4800e-003		72.0818	72.0818	4.4300e-003		72.1925

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	20.8575					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0168		281.8690
Total	20.8872	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003	0.0000	281.4481	281.4481	0.0168		281.8690

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Winter

3.7 Architectural Coating - 2023**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	4.6500e-003	0.1419	0.0370	5.6000e-004	0.0136	1.3000e-004	0.0137	3.9100e-003	1.3000e-004	4.0300e-003		58.7301	58.7301	4.0700e-003		58.8319
Worker	7.4100e-003	4.5400e-003	0.0444	1.3000e-004	0.0164	1.0000e-004	0.0165	4.3600e-003	9.0000e-005	4.4500e-003		13.3516	13.3516	3.6000e-004		13.3606
Total	0.0121	0.1464	0.0814	6.9000e-004	0.0300	2.3000e-004	0.0302	8.2700e-003	2.2000e-004	8.4800e-003		72.0818	72.0818	4.4300e-003		72.1925

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Arica and Victory Pass Solar O&M Building - Mojave Desert 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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	0.00	0.00	0.00		
General Light Industry	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
General Light Industry	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.545862	0.034394	0.171599	0.103299	0.016338	0.005100	0.010433	0.099439	0.001620	0.001949	0.008107	0.000868	0.000992
General Light Industry	0.545862	0.034394	0.171599	0.103299	0.016338	0.005100	0.010433	0.099439	0.001620	0.001949	0.008107	0.000868	0.000992

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Winter

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	3.6000e-004	3.2600e-003	2.7400e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		3.9146	3.9146	8.0000e-005	7.0000e-005	3.9379
NaturalGas Unmitigated	3.6000e-004	3.2600e-003	2.7400e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		3.9146	3.9146	8.0000e-005	7.0000e-005	3.9379

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Winter

5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	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
General Office Building	33.274	3.6000e-004	3.2600e-003	2.7400e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		3.9146	3.9146	8.0000e-005	7.0000e-005	3.9379
Total		3.6000e-004	3.2600e-003	2.7400e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		3.9146	3.9146	8.0000e-005	7.0000e-005	3.9379

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	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
General Office Building	0.033274	3.6000e-004	3.2600e-003	2.7400e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		3.9146	3.9146	8.0000e-005	7.0000e-005	3.9379
Total		3.6000e-004	3.2600e-003	2.7400e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004		3.9146	3.9146	8.0000e-005	7.0000e-005	3.9379

6.0 Area Detail**6.1 Mitigation Measures Area**

Arica and Victory Pass Solar O&M Building - Mojave Desert 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	0.1249	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000		1.0500e-003
Unmitigated	0.1249	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000		1.0500e-003

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	0.0286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0963					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000		1.0500e-003
Total	0.1249	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000		1.0500e-003

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Winter

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0286					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0963					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000		1.0500e-003
Total	0.1249	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000		1.0500e-003

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

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

Arica and Victory Pass Solar O&M Building - Mojave Desert Air Basin, Winter

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

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

Equipment Type	Number
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11.0 Vegetation
