



May 19, 2021

Mr. Thomas Strand
THE ALTUM GROUP
6265 Greenwich Drive, Suite 215
San Diego, CA 92122

RE: 2700 East Alejo Road Residential Project Air Quality & Greenhouse Gas Technical Memorandum
Project No. 19384

Dear Mr. Strand,

Ganddini Group, Inc. is pleased to provide this Air Quality and Greenhouse Gas Technical Memorandum for the 2700 East Alejo Road Residential project. The 2.53-acre project site is located at the northeast corner of Alejo Road and Juanita Drive, addressed at 2700 East Alejo Road, in the City of Palm Springs, California (APNs: 507-380-019 and 507-380-020). The site is currently vacant. A project location map, showing the project's location, is provided on Figure 1. A glossary is provided in Appendix A to assist the reader with technical terms related to this air quality analysis.

PROJECT DESCRIPTION

The proposed project involves construction of eight (8) single-family residential dwelling units. The project site plan is shown on Figure 2.

Table 1 shows the SCAQMD Air Quality Significance Thresholds for the Coachella Valley.

SHORT-TERM AIR QUALITY CONSTRUCTION IMPACTS

An analysis of the potential short-term air quality impacts due to regional air quality and local air quality impacts with the construction of the proposed residential uses is provided. The project is anticipated to be constructed in one phase. Construction is anticipated to begin early 2022 and take approximately 12 months to complete. The anticipated opening year for the proposed project is 2023. CalEEMod output is shown in Appendix B.

CONSTRUCTION-RELATED REGIONAL AIR QUALITY IMPACTS

The construction-related criteria pollutant emissions for the construction of the proposed residential uses are shown below in Table 2. Table 2 shows that none of the analyzed criteria pollutants would exceed the regional emissions thresholds. Therefore, a less than significant regional air quality impact would occur from construction of the proposed project.

CONSTRUCTION-RELATED LOCAL AIR QUALITY IMPACTS

Construction-related air emissions may have the potential to exceed the State and Federal air quality standards in the project vicinity, even though these pollutant emissions may not be significant enough to create a regional impact to the Salton Sea portion of the South Coast Air Basin. The proposed project has been

analyzed for the potential local air quality impacts created from: construction-related fugitive dust and diesel emissions; from toxic air contaminants; and from construction-related odor impacts.

The emission thresholds were calculated based on the Coachella Valley, source receptor area (SRA) 30 and a disturbance value of two acres per day (see Table 3). According to LST Methodology, any receptor located closer than 25 meters (82 feet) shall be based on the 25-meter thresholds. The nearest sensitive receptors are the existing single-family residential dwelling units located approximately 50 feet (~15 meters) to the west (across Juanita Drive) and 70 feet (~21 meters) to the southwest (across the intersection of Alejo Road and Juanita Drive) of the project site; therefore, the SCAQMD Look-up Tables for 25 meters was used. As shown in Table 4, none of the analyzed criteria pollutants would exceed the calculated local emissions thresholds at the nearest sensitive receptors. Therefore, the project is considered to be less than significant.

LONG-TERM AIR QUALITY OPERATIONAL IMPACTS

An analysis of the potential long-term air quality impacts due to operations of the proposed project has been completed. The operations-related criteria air quality impacts created by the proposed project have been analyzed through use of the CalEEMod model. The operating emissions were based on the year 2023, which is the anticipated opening year for the proposed project. CalEEMod output is shown in Appendix B. The CalEEMod analyzes operational emissions from area sources, energy usage, and mobile sources, which are discussed below.

METHODOLOGY

Mobile Sources

Mobile sources include emissions from the additional vehicle miles generated from the proposed project. As the proposed project is exempt from preparing either a Traffic Impact Analysis or Vehicle Miles Traveled Screening Analysis per Traffic Impact Analysis Guidelines, the vehicle trips associated with the proposed project have been analyzed by inputting the trip generation rates for single-family residential uses provided in the Institute of Engineers (ITE) Trip Generation Manual 10th Edition (September 2017) into the CalEEMod Model. The ITE trip generation rates for single-family residential uses are 9.44 trips per dwelling unit per day on weekdays, 9.54 trips per dwelling unit per day on Saturday, and 8.55 trips per dwelling unit per day on Sunday. The program then applies the emission factors for each trip which is provided by the EMFAC2014 model to determine the vehicular traffic pollutant emissions. The CalEEMod default trip lengths were used in this analysis.

Area Sources

Area sources include emissions from hearths, consumer products, landscape equipment and architectural coatings. No changes were made to the default area source parameters.

Energy Usage

Energy usage includes emissions from the generation of electricity and natural gas used on-site. No changes were made to the default energy usage parameters.

OPERATIONAL-RELATED REGIONAL AIR QUALITY IMPACTS

The worst-case summer or winter VOC, NO_x, CO, SO₂, PM₁₀, and PM_{2.5} emissions generated by the proposed project's long-term operations have been calculated and are summarized below in Table 5. Table 5

shows that none of the analyzed criteria pollutants would exceed the regional emissions thresholds. Therefore, a less than significant regional air quality impact would occur from operation of the proposed project.

GLOBAL CLIMATE CHANGE ANALYSIS

The proposed residential uses are anticipated to generate GHG emissions from operational and construction activities. The following provides the methodology used to calculate the GHG emissions and discusses the impacts.

METHODOLOGY

The CalEEMod Version 2016.3.2 was used to calculate the GHG emissions from the proposed project. The project's emissions were compared to the tier 3 SCAQMD draft screening threshold of 3,000 metric tons CO₂e per year for all land uses. Each source of GHG emissions is described in greater detail below.

Area Sources

Area sources include emissions from hearths, consumer products, landscape equipment and architectural coatings. No changes were made to the default area source parameters.

Energy Usage

Energy usage includes emissions from the generation of electricity and natural gas used on-site. No changes were made to the default energy usage parameters.

Mobile Sources

Mobile sources include emissions from the additional vehicle miles generated from the proposed project. The vehicle trips associated with the proposed project have been analyzed based on the ITE trip generation rates for single-family residential uses. The program then applies the emission factors for each trip which is provided by the EMFAC2014 model to determine the vehicular traffic pollutant emissions. The CalEEMod default trip lengths were used in this analysis.

Waste

Waste includes the GHG emissions generated from the processing of waste from the proposed project as well as the GHG emissions from the waste once it is interred into a landfill. No changes were made to the default waste parameters.

Water

Water includes the water used for the interior of the building as well as for landscaping and is based on the GHG emissions associated with the energy used to transport and filter the water. No changes were made to the default water parameters.

Construction

The construction-related GHG emissions were also included in the analysis and were based on a 30-year amortization rate as recommended in the SCAQMD GHG Working Group meeting on November 19, 2009. The construction-related GHG emissions were calculated by CalEEMod as detailed above.

GREENHOUSE GAS EMISSIONS

The proposed project's GHG emissions have been calculated with the CalEEMod model based on the parameters detailed above. A summary of the results is shown below in Table 6 and CalEEMod model run for the proposed project is provided in Appendix C.

The data provided in Table 6 shows that the proposed project's GHG emissions would be 137.09 MTCO₂e per year. At a level of 137.09 MTCO₂e per year, the project's emissions do not exceed the SCAQMD draft GHG emissions threshold of 3,000 MTCO₂e per year for all land uses; therefore, the impacts from GHGs are considered to be less than significant.

GREENHOUSE GAS PLAN CONSISTENCY

The proposed project could have the potential to conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases. The applicable plan for the proposed project is the City of Palm Springs Climate Action Plan (CAP).

Consistency with City of Palm Springs CAP

The City of Palm Springs CAP was set in place to guide the City in decisions that lead to the largest and most cost-effective emissions reductions. This plan sets forth goals to reduce emissions to achieve the targets of AB 32. In order to achieve these targets, the CAP presents a number of GHG emissions-reducing programs and policies that are to be implemented by the City. As specified in the CAP, these measures are to be implemented over a course of eight years beginning in 2013. The proposed project would be expected to comply with all applicable emissions-reducing measures identified within the CAP. The project's compliance with the CAP measures is detailed in Table 7.

Consistency with AB-32 and SB-32

As stated previously, the SCAQMD's tier 3 thresholds used Executive Order S-3-05 goal as the basis for deriving the screening level. The California Governor issued Executive Order S-3-05, GHG Emission, in June 2005, which established the following reduction targets:

- 2010: Reduce greenhouse gas emissions to 2000 levels
- 2020: Reduce greenhouse gas emissions to 1990 levels
- 2050: Reduce greenhouse gas emissions to 80 percent below 1990 levels.

In 2006, the California State Legislature adopted AB 32, the California Global Warming Solutions Act of 2006. AB 32 requires CARB, to adopt rules and regulations that would achieve GHG emissions equivalent to statewide levels in 1990 by 2020 through an enforceable statewide emission cap which was phased in starting in 2012.

Therefore, as the project's emissions meet the threshold for compliance with Executive Order S-3-05, the project's emissions also comply with the goals of AB 32 and the City of Palm Springs CAP. Additionally, as the project meets the current interim emissions targets/thresholds established by SCAQMD, the project would also be on track to meet the reduction target of 40 percent below 1990 levels by 2030 mandated by SB-32. Furthermore, all of the post 2020 reductions in GHG emissions are addressed via regulatory requirements at the State level and the project will be required to comply with these regulations as they come into effect.

Mr. Thomas Strand
THE ALTUM GROUP
May 19, 2021

At a level of 137.09 MTCO₂e per year, the project's GHG emissions do not exceed the SCAQMD draft threshold of 3,000 MTCO₂e per year, and is in compliance with the reduction goals of the City of Palm Springs CAP, AB-32 and SB-32. Furthermore, the project will comply with applicable Green Building Standards and City of Palm Spring's policies regarding sustainability (as dictated by the City's General Plan and CAP). Impacts are considered to be less than significant.

CONCLUSIONS

As discussed above, the proposed residential project would not exceed SCAQMD thresholds for local and regional construction-related emissions or local and regional operational emissions. Furthermore, at a level of 137.09 MTCO₂e per year the proposed project's GHG emissions are well below the SCAQMD screening threshold of 3,000 metric tons per year of CO₂e for all land uses. Therefore, this technical memorandum found that air quality and greenhouse gas-related impacts are considered to be less than significant. No further analysis or mitigation is required.

It has been a pleasure to service your needs on the 2700 East Alejo Road project. Should you have any questions or if we can be of further assistance, please do not hesitate to call at (714) 975-3100.

Sincerely,



Katie Wilson, M.S.
Senior Air Quality Analyst

**Table 1
SCAQMD Air Quality Significance Thresholds for Coachella Valley**

Mass Daily Thresholds ^{1,2}		
Pollutant	Construction (lbs/day)	Operation (lbs/day)
NOx	100	100
VOC	75	75
PM10	150	150
PM2.5	55	55
SOx	150	150
CO	550	550
Lead	3	3
Toxic Air Contaminants, Odor and GHG Thresholds		
TACs	Maximum Incremental Cancer Risk \geq 10 in 1 million Cancer Burden > 0.5 excess cancer cases (in areas \geq 1 in 1 million) Chronic & Acute Hazard Index > 1.0 (project increment)	
Odor	Project creates an odor nuisance pursuant to SCAQMD Rule 402	
GHG	10,000 MT/yr CO ₂ e for industrial projects	
Ambient Air Quality Standards		
Pollutant	SCAQMD Standards	
NO ₂ -1-hour average	0.18 ppm (338 $\mu\text{g}/\text{m}^3$)	
PM10 -24-hour average		
Construction	10.4 $\mu\text{g}/\text{m}^3$	
Operations	2.5 $\mu\text{g}/\text{m}^3$	
PM2.5 -24-hour average		
Construction	10.4 $\mu\text{g}/\text{m}^3$	
Operations	2.5 $\mu\text{g}/\text{m}^3$	
SO ₂		
1-hour average	0.25 ppm	
24-hour average	0.04 ppm	
CO		
1-hour average	20 ppm (23,000 $\mu\text{g}/\text{m}^3$)	
8-hour average	9 ppm (10,000 $\mu\text{g}/\text{m}^3$)	
Lead		
30-day average	1.5 $\mu\text{g}/\text{m}^3$	
Rolling 3-month average	0.15 $\mu\text{g}/\text{m}^3$	
Quarterly average	1.5 $\mu\text{g}/\text{m}^3$	

Notes:

- (1) Source: <http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf>
- (2) Construction thresholds apply to both the South Coast Air Basin and Coachella Valley. For Coachella Valley, the mass daily thresholds for operation are the same as the construction thresholds.

**Table 2
Construction-Related Regional Pollutant Emissions**

Activity		Pollutant Emissions (pounds/day)					
		ROG	NOx	CO	SO ₂	PM10	PM2.5
Grading	On-Site ¹	1.54	16.98	9.22	0.02	3.30	2.00
	Off-Site ²	0.04	0.02	0.26	0.00	0.08	0.02
	Subtotal	1.58	17.00	9.48	0.02	3.38	2.02
Building Construction	On-Site ¹	1.86	14.60	14.35	0.03	0.70	0.67
	Off-Site ²	0.01	0.09	0.09	0.00	0.03	0.01
	Subtotal	1.87	14.69	14.45	0.03	0.73	0.68
Paving	On-Site ¹	0.94	9.33	11.70	0.02	0.49	0.45
	Off-Site ²	0.05	0.03	0.40	0.00	0.13	0.03
	Subtotal	1.00	9.36	12.09	0.02	0.61	0.48
Architectural Coating	On-Site ¹	45.26	1.41	1.81	0.00	0.08	0.08
	Off-Site ²	0.00	0.00	0.03	0.00	0.01	0.00
	Subtotal	45.26	1.41	1.84	0.00	0.09	0.08
Total for overlapping phases ³		48.12	25.46	28.38	0.05	1.44	1.25
SCAQMD Thresholds		75	100	550	150	150	55
Exceeds Thresholds?		No	No	No	No	No	No

Notes:

Source: CalEEMod Version 2016.3.2

- (1) On-site emissions from equipment operated on-site that is not operated on public roads. On-site grading PM-10 and PM-2.5 emissions show mitigated values for fugitive dust for compliance with SCAQMD Rule 403.
- (2) Off-site emissions from equipment operated on public roads.
- (3) Construction, painting and paving phases may overlap.

Table 3
Maximum Number of Acres Disturbed Per Day

Activity	Equipment	Number	Acres/8hr-day	Total Acres
Grading	Rubber Tired Dozers	1	0.5	0.5
	Graders	1	0.5	0.5
	Crawler Tractors ¹	2	0.5	1
Total for phase		-	-	2

Notes:

Source: South Coast AQMD, Fact Sheet for Applying CalEEMod to Localized Significance Thresholds, 2011b.

(1) Tractor/loader/backhoe is a suitable surrogate for a crawler tractor per SCAQMD staff.

**Table 4
Local Construction Emissions at the Nearest Receptors**

Activity	On-Site Pollutant Emissions (pounds/day)			
	NOx	CO	PM10	PM2.5
Grading	16.98	9.22	3.30	2.00
Building Construction	14.60	14.35	0.70	0.67
Paving	9.33	11.70	0.49	0.45
Architectural Coating	1.41	1.81	0.08	0.08
SCAQMD Thresholds ¹	191	1,299	7	5
Exceeds Threshold?	No	No	No	No

Notes:

Source: Calculated from CalEEMod and SCAQMD's Mass Rate Look-up Tables for 2 acres at a distance of 25 meters in SRA 30 Coachella Valley.

- (1) The nearest sensitive receptors to the project include the existing single-family residential dwelling units located approximately 50 feet (~15 meters) to the west (across Juanita Drive) and 70 feet (~21 meters) to the southeast (across the intersection of Alejo Road and Juanita Drive) of the project site; therefore, the 25 meter threshold was used.

Note: The project will disturb up to a maximum of 2 acres a day during grading (see Table 3).

**Table 5
Regional Operational Pollutant Emissions**

Activity	Pollutant Emissions (pounds/day)					
	ROG	NOx	CO	SO2	PM10	PM2.5
Area Sources ¹	0.47	0.13	0.71	0.00	0.01	0.01
Energy Usage ²	0.01	0.06	0.03	0.00	0.01	0.01
Mobile Sources ³	0.12	0.68	1.12	0.01	0.37	0.10
Total Emissions	0.59	0.87	1.86	0.01	0.39	0.12
SCAQMD Thresholds	75	100	550	150	150	55
Exceeds Threshold?	No	No	No	No	No	No

Notes:

Source: CalEEMod Version 2016.3.2; the higher of either summer or winter emissions.

- (1) Area sources consist of emissions from consumer products, architectural coatings, and landscaping equipment.
- (2) Energy usage consists of emissions from generation of electricity and on-site natural gas usage.
- (3) Mobile sources consist of emissions from vehicles and road dust.

**Table 6
Project-Related Greenhouse Gas Emissions**

Category	Greenhouse Gas Emissions (Metric Tons/Year)					
	Bio-CO ₂	NonBio-CO ₂	CO ₂	CH ₄	N ₂ O	CO ₂ e
Area Sources ¹	0.00	5.68	5.68	0.00	0.00	5.80
Energy Usage ²	0.00	35.28	35.28	0.00	0.00	35.44
Mobile Sources ³	0.00	78.66	78.66	0.00	0.00	78.76
Waste ⁴	1.91	0.00	1.91	0.11	0.00	4.74
Water ⁵	0.17	3.33	3.49	0.02	0.00	4.05
Construction ⁶	0.00	8.27	8.27	0.00	0.00	8.31
Total Emissions	2.08	131.21	133.29	0.14	0.00	137.09
SCAQMD Draft Screening Threshold						3,000
Exceeds Threshold?						No

Notes:

Source: CalEEMod Version 2016.3.2 for Opening Year 2023.

- (1) Area sources consist of GHG emissions from consumer products, architectural coatings, and landscape equipment.
- (2) Energy usage consist of GHG emissions from electricity and natural gas usage.
- (3) Mobile sources consist of GHG emissions from vehicles.
- (4) Solid waste includes the CO₂ and CH₄ emissions created from the solid waste placed in landfills.
- (5) Water includes GHG emissions from electricity used for transport of water and processing of wastewater.
- (6) Construction GHG emissions CO₂e based on a 30 year amortization rate.

**Table 7
City of Palm Springs CAP Applicable Measures Project Comparison**

Sector	CAP Measures to Reduce Greenhouse Gas Emissions	Project Compliance with Measure
Sphere - "Where We Live"		
Solid Waste	Solid Waste Diversion: Increase solid waste diversion rate by 5% to 80.1% by 2015 potentially through awareness programs, recognition and other financial instruments.	Consistent. The project will be required to comply with AB 341, which includes recycling programs that reduces waste to landfills by a minimum 75% by 2020.
Solid Waste	Solid Waste Diversion: Increase solid waste diversion rate by an additional 10% to 90.1% by 2020 potentially through awareness programs, recognition and other financial instruments.	Consistent. The project will be required to comply with AB 341, which includes recycling programs that reduces waste to landfills by a minimum of 75% by 2020.
Water	Gray-Water Ready Ordinance: Require all new residential development to be constructed for easy implementation of gray water systems that redirect water from wash basins, showers, and tubs.	Consistent. The project is a residential project and will be required to be constructed for easy implementation of gray water systems that redirect water from wash basins, showers, and tubs.
Sphere- " How We Build"		
Residential Buildings	Green Building Program: Promote the voluntary Green Building Program to prepare for enhanced Title 24 requirements and green building standards.	Consistent. The California Green Building Standards Code (proposed Part 11, Title 24) was adopted as part of the California Building Standards Code in the CCR. Part 11 establishes voluntary standards, that became mandatory in the 2019 edition of the Code, on planning and design for sustainable site development, energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and internal air contaminants. The project will be subject to these mandatory standards.
Residential Buildings	Shade Trees: Promote properly sited and selected shade trees in 100% of new construction to reduce heat island and provide shade to offset air conditioning.	Consistent. The project involves the construction of eight single-family residential homes. The proposed project would be subject to and comply with applicable City of Palm Springs Municipal Code regulations regarding the number of trees to be planted for single-family residential uses.
Water	Storm water Capture: Promote storm water capture and retention for exterior landscape use (cisterns, rain barrels) to demonstrate 10 new systems by 2020.	Consistent. The project would be required to comply with City of Palm Springs Municipal Code (i.e., Section 8.70.100 etc.) regulations regarding stormwater retention for single-family residential uses.

Notes:

Source: City of Palm Springs Climate Action Plan (2013).

APPENDIX A

GLOSSARY

AQMP	Air Quality Management Plan
CAAQS	California Ambient Air Quality Standards
CalEPA	California Environmental Protection Agency
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CCAA	California Clean Air Act
CCR	California Code of Regulations
CEQA	California Environmental Quality Act
CFCs	Chlorofluorocarbons
CH ₄	Methane
CNG	Compressed natural gas
CO	Carbon monoxide
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalent
DPM	Diesel particulate matter
EPA	U.S. Environmental Protection Agency
GHG	Greenhouse gas
GWP	Global warming potential
HFCs	Hydrofluorocarbons
IPCC	International Panel on Climate Change
LST	Localized Significant Thresholds
MTCO ₂ e	Metric tons of carbon dioxide equivalent
MMTCO ₂ e	Million metric tons of carbon dioxide equivalent
MPO	Metropolitan Planning Organization
NAAQS	National Ambient Air Quality Standards
NO _x	Nitrogen Oxides
NO ₂	Nitrogen dioxide
N ₂ O	Nitrous oxide
O ₃	Ozone
OPR	Governor's Office of Planning and Research
PFCs	Perfluorocarbons
PM	Particle matter
PM ₁₀	Particles that are less than 10 micrometers in diameter
PM _{2.5}	Particles that are less than 2.5 micrometers in diameter
PMI	Point of maximum impact
PPB	Parts per billion
PPM	Parts per million
RTIP	Regional Transportation Improvement Plan
RTP	Regional Transportation Plan
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SF ₆	Sulfur hexafluoride
SIP	State Implementation Plan
SO _x	Sulfur Oxides
TAC	Toxic air contaminants
UNFCCC	United Nations Framework Convention on Climate Change
VOC	Volatile organic compounds

APPENDIX B

CALEEMOD MODEL DAILY EMISSIONS PRINTOUTS

19384 2700 East Alejo Road - Riverside-Salton Sea County, Summer

19384 2700 East Alejo Road
Riverside-Salton Sea County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	8.00	Dwelling Unit	2.53	14,400.00	23

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use - Site is ~2.53 acres with 8 single-family residential dwelling units proposed.

Construction Phase - Construction anticipated to begin early 2022 and be completed in ~12 months. No demolition or site preparation, site is vacant. CalEEMod default timing utilized.

Grading - Site is anticipated to balance.

Vehicle Trips - 10th Ed ITE Manual, SFD trip generation rates are 9.44 trips/DU/day on weekdays, 9.54 trips/DU/day on Saturdays, & 8.55 trips/DU/day on Sundays.

Woodstoves - SCAQMD Rule 445 prohibits the installation of wood burning devices in new developments.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Site is ~0.32 miles SE of Sunline Rte 14 stop Farrell at Tamarisk. 8 SFD /2.53 ac = 3.16 DU/ac.

Energy Mitigation - 2019 Title 24 Standards for residential bldgs will use ~7% less energy than with 2016 Title 24 standards.

Water Mitigation - 20% reduction indoor water use per CalGreen standards.

Waste Mitigation - AB 341 requires each jurisdiction in CA to divert at least 75% of their waste away from landfills by 2020.

19384 2700 East Alejo Road - Riverside-Salton Sea County, Summer

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	PhaseEndDate	1/12/2023	12/29/2022
tblConstructionPhase	PhaseEndDate	12/15/2022	12/1/2022
tblConstructionPhase	PhaseEndDate	2/10/2022	1/27/2022
tblConstructionPhase	PhaseEndDate	12/29/2022	12/15/2022
tblConstructionPhase	PhaseStartDate	12/30/2022	12/16/2022
tblConstructionPhase	PhaseStartDate	2/11/2022	1/28/2022
tblConstructionPhase	PhaseStartDate	2/3/2022	1/20/2022
tblConstructionPhase	PhaseStartDate	12/16/2022	12/2/2022
tblFireplaces	NumberGas	6.40	7.20
tblFireplaces	NumberWood	0.80	0.00
tblLandUse	LotAcreage	2.60	2.53
tblVehicleTrips	ST_TR	9.91	9.54
tblVehicleTrips	SU_TR	8.62	8.55
tblVehicleTrips	WD_TR	9.52	9.54
tblWoodstoves	NumberCatalytic	0.40	0.00
tblWoodstoves	NumberNoncatalytic	0.40	0.00

2.0 Emissions Summary

19384 2700 East Alejo Road - Riverside-Salton Sea County, 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	45.2604	17.0024	14.4466	0.0255	6.6360	0.7428	7.3788	3.3897	0.6834	4.0730	0.0000	2,335.4178	2,335.4178	0.6471	0.0000	2,346.5174
Maximum	45.2604	17.0024	14.4466	0.0255	6.6360	0.7428	7.3788	3.3897	0.6834	4.0730	0.0000	2,335.4178	2,335.4178	0.6471	0.0000	2,346.5174

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	45.2604	17.0024	14.4466	0.0255	2.6391	0.7428	3.3819	1.3355	0.6834	2.0189	0.0000	2,335.4178	2,335.4178	0.6471	0.0000	2,346.5174
Maximum	45.2604	17.0024	14.4466	0.0255	2.6391	0.7428	3.3819	1.3355	0.6834	2.0189	0.0000	2,335.4178	2,335.4178	0.6471	0.0000	2,346.5174

	ROG	NOx	CO	SO2	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	60.23	0.00	54.17	60.60	0.00	50.43	0.00	0.00	0.00	0.00	0.00	0.00

19384 2700 East Alejo Road - Riverside-Salton Sea County, 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	0.4655	0.1271	0.7110	8.0000e-004		0.0133	0.0133		0.0133	0.0133	0.0000	153.6590	153.6590	4.0700e-003	2.8000e-003	154.5936
Energy	7.2300e-003	0.0618	0.0263	3.9000e-004		5.0000e-003	5.0000e-003		5.0000e-003	5.0000e-003		78.8942	78.8942	1.5100e-003	1.4500e-003	79.3630
Mobile	0.1152	0.6825	1.1216	5.0000e-003	0.3640	2.6700e-003	0.3667	0.0974	2.4900e-003	0.0999		511.4874	511.4874	0.0240		512.0865
Total	0.5879	0.8714	1.8589	6.1900e-003	0.3640	0.0210	0.3850	0.0974	0.0208	0.1182	0.0000	744.0406	744.0406	0.0296	4.2500e-003	746.0432

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	0.4655	0.1271	0.7110	8.0000e-004		0.0133	0.0133		0.0133	0.0133	0.0000	153.6590	153.6590	4.0700e-003	2.8000e-003	154.5936
Energy	6.8300e-003	0.0583	0.0248	3.7000e-004		4.7200e-003	4.7200e-003		4.7200e-003	4.7200e-003		74.4600	74.4600	1.4300e-003	1.3700e-003	74.9025
Mobile	0.1124	0.6646	1.0304	4.5700e-003	0.3264	2.4400e-003	0.3288	0.0873	2.2700e-003	0.0896		467.6468	467.6468	0.0228		468.2175
Total	0.5847	0.8500	1.7662	5.7400e-003	0.3264	0.0205	0.3468	0.0873	0.0203	0.1076	0.0000	695.7658	695.7658	0.0283	4.1700e-003	697.7136

19384 2700 East Alejo Road - Riverside-Salton Sea County, 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	0.55	2.45	4.99	7.27	10.35	2.43	9.92	10.35	2.40	8.95	0.00	6.49	6.49	4.13	1.88	6.48

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/20/2022	1/27/2022	5	6	
2	Building Construction	Building Construction	1/28/2022	12/1/2022	5	220	
3	Paving	Paving	12/2/2022	12/15/2022	5	10	
4	Architectural Coating	Architectural Coating	12/16/2022	12/29/2022	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 29,160; Residential Outdoor: 9,720; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

19384 2700 East Alejo Road - Riverside-Salton Sea County, 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	1	8.00	9	0.56
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Building Construction	Welders	3	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	4	10.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	3.00	1.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

19384 2700 East Alejo Road - Riverside-Salton Sea County, Summer

3.2 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829		1,995.4825	1,995.4825	0.6454		2,011.6169
Total	1.5403	16.9836	9.2202	0.0206	6.5523	0.7423	7.2946	3.3675	0.6829	4.0504		1,995.4825	1,995.4825	0.6454		2,011.6169

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	0.0365	0.0188	0.2637	7.8000e-004	0.0837	5.0000e-004	0.0842	0.0222	4.6000e-004	0.0227		77.2999	77.2999	1.7500e-003		77.3437
Total	0.0365	0.0188	0.2637	7.8000e-004	0.0837	5.0000e-004	0.0842	0.0222	4.6000e-004	0.0227		77.2999	77.2999	1.7500e-003		77.3437

19384 2700 East Alejo Road - Riverside-Salton Sea County, Summer

3.2 Grading - 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					
Fugitive Dust					2.5554	0.0000	2.5554	1.3133	0.0000	1.3133			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829	0.0000	1,995.4825	1,995.4825	0.6454		2,011.6169
Total	1.5403	16.9836	9.2202	0.0206	2.5554	0.7423	3.2977	1.3133	0.6829	1.9962	0.0000	1,995.4825	1,995.4825	0.6454		2,011.6169

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	0.0365	0.0188	0.2637	7.8000e-004	0.0837	5.0000e-004	0.0842	0.0222	4.6000e-004	0.0227		77.2999	77.2999	1.7500e-003		77.3437
Total	0.0365	0.0188	0.2637	7.8000e-004	0.0837	5.0000e-004	0.0842	0.0222	4.6000e-004	0.0227		77.2999	77.2999	1.7500e-003		77.3437

19384 2700 East Alejo Road - Riverside-Salton Sea County, Summer

3.3 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289.2813	2,289.2813	0.4417		2,300.3230
Total	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289.2813	2,289.2813	0.4417		2,300.3230

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	1.9900e-003	0.0823	0.0142	2.2000e-004	5.0200e-003	1.2000e-004	5.1400e-003	1.4500e-003	1.1000e-004	1.5600e-003		22.9465	22.9465	1.7900e-003		22.9913
Worker	0.0109	5.6400e-003	0.0791	2.3000e-004	0.0251	1.5000e-004	0.0253	6.6600e-003	1.4000e-004	6.7900e-003		23.1900	23.1900	5.2000e-004		23.2031
Total	0.0129	0.0880	0.0933	4.5000e-004	0.0301	2.7000e-004	0.0304	8.1100e-003	2.5000e-004	8.3500e-003		46.1365	46.1365	2.3100e-003		46.1944

19384 2700 East Alejo Road - Riverside-Salton Sea County, Summer

3.3 Building Construction - 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	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731	0.0000	2,289.2813	2,289.2813	0.4417		2,300.3230
Total	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731	0.0000	2,289.2813	2,289.2813	0.4417		2,300.3230

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	1.9900e-003	0.0823	0.0142	2.2000e-004	5.0200e-003	1.2000e-004	5.1400e-003	1.4500e-003	1.1000e-004	1.5600e-003		22.9465	22.9465	1.7900e-003		22.9913
Worker	0.0109	5.6400e-003	0.0791	2.3000e-004	0.0251	1.5000e-004	0.0253	6.6600e-003	1.4000e-004	6.7900e-003		23.1900	23.1900	5.2000e-004		23.2031
Total	0.0129	0.0880	0.0933	4.5000e-004	0.0301	2.7000e-004	0.0304	8.1100e-003	2.5000e-004	8.3500e-003		46.1365	46.1365	2.3100e-003		46.1944

19384 2700 East Alejo Road - Riverside-Salton Sea County, Summer

3.4 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9412	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500		1,709.689 2	1,709.689 2	0.5419		1,723.235 6
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9412	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500		1,709.689 2	1,709.689 2	0.5419		1,723.235 6

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	0.0547	0.0282	0.3956	1.1600e-003	0.1255	7.4000e-004	0.1262	0.0333	6.8000e-004	0.0340		115.9499	115.9499	2.6200e-003		116.0155
Total	0.0547	0.0282	0.3956	1.1600e-003	0.1255	7.4000e-004	0.1262	0.0333	6.8000e-004	0.0340		115.9499	115.9499	2.6200e-003		116.0155

19384 2700 East Alejo Road - Riverside-Salton Sea County, Summer

3.4 Paving - 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	0.9412	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500	0.0000	1,709.689 2	1,709.689 2	0.5419		1,723.235 6
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9412	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500	0.0000	1,709.689 2	1,709.689 2	0.5419		1,723.235 6

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	0.0547	0.0282	0.3956	1.1600e-003	0.1255	7.4000e-004	0.1262	0.0333	6.8000e-004	0.0340		115.9499	115.9499	2.6200e-003		116.0155
Total	0.0547	0.0282	0.3956	1.1600e-003	0.1255	7.4000e-004	0.1262	0.0333	6.8000e-004	0.0340		115.9499	115.9499	2.6200e-003		116.0155

19384 2700 East Alejo Road - Riverside-Salton Sea County, Summer

3.5 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	45.0522					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	45.2567	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

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	3.6400e-003	1.8800e-003	0.0264	8.0000e-005	8.3700e-003	5.0000e-005	8.4200e-003	2.2200e-003	5.0000e-005	2.2600e-003		7.7300	7.7300	1.7000e-004		7.7344
Total	3.6400e-003	1.8800e-003	0.0264	8.0000e-005	8.3700e-003	5.0000e-005	8.4200e-003	2.2200e-003	5.0000e-005	2.2600e-003		7.7300	7.7300	1.7000e-004		7.7344

19384 2700 East Alejo Road - Riverside-Salton Sea County, Summer

3.5 Architectural Coating - 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					
Archit. Coating	45.0522					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	45.2567	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

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	3.6400e-003	1.8800e-003	0.0264	8.0000e-005	8.3700e-003	5.0000e-005	8.4200e-003	2.2200e-003	5.0000e-005	2.2600e-003		7.7300	7.7300	1.7000e-004		7.7344
Total	3.6400e-003	1.8800e-003	0.0264	8.0000e-005	8.3700e-003	5.0000e-005	8.4200e-003	2.2200e-003	5.0000e-005	2.2600e-003		7.7300	7.7300	1.7000e-004		7.7344

4.0 Operational Detail - Mobile

19384 2700 East Alejo Road - Riverside-Salton Sea County, Summer

4.1 Mitigation Measures Mobile

Increase Density

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1124	0.6646	1.0304	4.5700e-003	0.3264	2.4400e-003	0.3288	0.0873	2.2700e-003	0.0896		467.6468	467.6468	0.0228		468.2175
Unmitigated	0.1152	0.6825	1.1216	5.0000e-003	0.3640	2.6700e-003	0.3667	0.0974	2.4900e-003	0.0999		511.4874	511.4874	0.0240		512.0865

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	76.32	76.32	68.40	168,191	150,789
Total	76.32	76.32	68.40	168,191	150,789

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

19384 2700 East Alejo Road - Riverside-Salton Sea County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	6.8300e-003	0.0583	0.0248	3.7000e-004		4.7200e-003	4.7200e-003		4.7200e-003	4.7200e-003		74.4600	74.4600	1.4300e-003	1.3700e-003	74.9025
NaturalGas Unmitigated	7.2300e-003	0.0618	0.0263	3.9000e-004		5.0000e-003	5.0000e-003		5.0000e-003	5.0000e-003		78.8942	78.8942	1.5100e-003	1.4500e-003	79.3630

19384 2700 East Alejo Road - Riverside-Salton Sea County, 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					
Single Family Housing	670.601	7.2300e-003	0.0618	0.0263	3.9000e-004		5.0000e-003	5.0000e-003		5.0000e-003	5.0000e-003		78.8942	78.8942	1.5100e-003	1.4500e-003	79.3630
Total		7.2300e-003	0.0618	0.0263	3.9000e-004		5.0000e-003	5.0000e-003		5.0000e-003	5.0000e-003		78.8942	78.8942	1.5100e-003	1.4500e-003	79.3630

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	0.63291	6.8300e-003	0.0583	0.0248	3.7000e-004		4.7200e-003	4.7200e-003		4.7200e-003	4.7200e-003		74.4600	74.4600	1.4300e-003	1.3700e-003	74.9025
Total		6.8300e-003	0.0583	0.0248	3.7000e-004		4.7200e-003	4.7200e-003		4.7200e-003	4.7200e-003		74.4600	74.4600	1.4300e-003	1.3700e-003	74.9025

6.0 Area Detail

6.1 Mitigation Measures Area

19384 2700 East Alejo Road - Riverside-Salton Sea County, 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	0.4655	0.1271	0.7110	8.0000e-004		0.0133	0.0133		0.0133	0.0133	0.0000	153.6590	153.6590	4.0700e-003	2.8000e-003	154.5936
Unmitigated	0.4655	0.1271	0.7110	8.0000e-004		0.0133	0.0133		0.0133	0.0133	0.0000	153.6590	153.6590	4.0700e-003	2.8000e-003	154.5936

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	0.1234					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3082					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0140	0.1194	0.0508	7.6000e-004		9.6600e-003	9.6600e-003		9.6600e-003	9.6600e-003	0.0000	152.4706	152.4706	2.9200e-003	2.8000e-003	153.3766
Landscaping	0.0199	7.6100e-003	0.6602	3.0000e-005		3.6500e-003	3.6500e-003		3.6500e-003	3.6500e-003		1.1884	1.1884	1.1400e-003		1.2170
Total	0.4655	0.1271	0.7110	7.9000e-004		0.0133	0.0133		0.0133	0.0133	0.0000	153.6590	153.6590	4.0600e-003	2.8000e-003	154.5936

19384 2700 East Alejo Road - Riverside-Salton Sea County, 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	0.1234					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3082					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0140	0.1194	0.0508	7.6000e-004		9.6600e-003	9.6600e-003		9.6600e-003	9.6600e-003	0.0000	152.4706	152.4706	2.9200e-003	2.8000e-003	153.3766
Landscaping	0.0199	7.6100e-003	0.6602	3.0000e-005		3.6500e-003	3.6500e-003		3.6500e-003	3.6500e-003		1.1884	1.1884	1.1400e-003		1.2170
Total	0.4655	0.1271	0.7110	7.9000e-004		0.0133	0.0133		0.0133	0.0133	0.0000	153.6590	153.6590	4.0600e-003	2.8000e-003	154.5936

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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19384 2700 East Alejo Road - Riverside-Salton Sea County, Summer

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

19384 2700 East Alejo Road - Riverside-Salton Sea County, Winter

19384 2700 East Alejo Road
Riverside-Salton Sea County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	8.00	Dwelling Unit	2.53	14,400.00	23

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

19384 2700 East Alejo Road - Riverside-Salton Sea County, Winter

Project Characteristics -

Land Use - Site is ~2.53 acres with 8 single-family residential dwelling units proposed.

Construction Phase - Construction anticipated to begin early 2022 and be completed in ~12 months. No demolition or site preparation, site is vacant. CalEEMod default timing utilized.

Grading - Site is anticipated to balance.

Vehicle Trips - 10th Ed ITE Manual, SFD trip generation rates are 9.44 trips/DU/day on weekdays, 9.54 trips/DU/day on Saturdays, & 8.55 trips/DU/day on Sundays.

Woodstoves - SCAQMD Rule 445 prohibits the installation of wood burning devices in new developments.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Site is ~0.32 miles SE of Sunline Rte 14 stop Farrell at Tamarisk. 8 SFD /2.53 ac = 3.16 DU/ac.

Energy Mitigation - 2019 Title 24 Standards for residential bldgs will use ~7% less energy than with 2016 Title 24 standards.

Water Mitigation - 20% reduction indoor water use per CalGreen standards.

Waste Mitigation - AB 341 requires each jurisdiction in CA to divert at least 75% of their waste away from landfills by 2020.

19384 2700 East Alejo Road - Riverside-Salton Sea County, Winter

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	PhaseEndDate	1/12/2023	12/29/2022
tblConstructionPhase	PhaseEndDate	12/15/2022	12/1/2022
tblConstructionPhase	PhaseEndDate	2/10/2022	1/27/2022
tblConstructionPhase	PhaseEndDate	12/29/2022	12/15/2022
tblConstructionPhase	PhaseStartDate	12/30/2022	12/16/2022
tblConstructionPhase	PhaseStartDate	2/11/2022	1/28/2022
tblConstructionPhase	PhaseStartDate	2/3/2022	1/20/2022
tblConstructionPhase	PhaseStartDate	12/16/2022	12/2/2022
tblFireplaces	NumberGas	6.40	7.20
tblFireplaces	NumberWood	0.80	0.00
tblLandUse	LotAcreage	2.60	2.53
tblVehicleTrips	ST_TR	9.91	9.54
tblVehicleTrips	SU_TR	8.62	8.55
tblVehicleTrips	WD_TR	9.52	9.54
tblWoodstoves	NumberCatalytic	0.40	0.00
tblWoodstoves	NumberNoncatalytic	0.40	0.00

2.0 Emissions Summary

19384 2700 East Alejo Road - Riverside-Salton Sea County, 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	45.2602	17.0031	14.4350	0.0254	6.6360	0.7428	7.3788	3.3897	0.6834	4.0730	0.0000	2,332.019 1	2,332.019 1	0.6469	0.0000	2,343.122 4
Maximum	45.2602	17.0031	14.4350	0.0254	6.6360	0.7428	7.3788	3.3897	0.6834	4.0730	0.0000	2,332.019 1	2,332.019 1	0.6469	0.0000	2,343.122 4

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	45.2602	17.0031	14.4350	0.0254	2.6391	0.7428	3.3819	1.3355	0.6834	2.0189	0.0000	2,332.019 1	2,332.019 1	0.6469	0.0000	2,343.122 4
Maximum	45.2602	17.0031	14.4350	0.0254	2.6391	0.7428	3.3819	1.3355	0.6834	2.0189	0.0000	2,332.019 1	2,332.019 1	0.6469	0.0000	2,343.122 4

	ROG	NOx	CO	SO2	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	60.23	0.00	54.17	60.60	0.00	50.43	0.00	0.00	0.00	0.00	0.00	0.00

19384 2700 East Alejo Road - Riverside-Salton Sea County, 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	0.4655	0.1271	0.7110	8.0000e-004		0.0133	0.0133		0.0133	0.0133	0.0000	153.6590	153.6590	4.0700e-003	2.8000e-003	154.5936
Energy	7.2300e-003	0.0618	0.0263	3.9000e-004		5.0000e-003	5.0000e-003		5.0000e-003	5.0000e-003		78.8942	78.8942	1.5100e-003	1.4500e-003	79.3630
Mobile	0.0955	0.6758	0.9916	4.6000e-003	0.3640	2.6900e-003	0.3667	0.0974	2.5100e-003	0.0999		471.5151	471.5151	0.0250		472.1404
Total	0.5682	0.8646	1.7289	5.7900e-003	0.3640	0.0210	0.3851	0.0974	0.0208	0.1182	0.0000	704.0683	704.0683	0.0306	4.2500e-003	706.0970

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	0.4655	0.1271	0.7110	8.0000e-004		0.0133	0.0133		0.0133	0.0133	0.0000	153.6590	153.6590	4.0700e-003	2.8000e-003	154.5936
Energy	6.8300e-003	0.0583	0.0248	3.7000e-004		4.7200e-003	4.7200e-003		4.7200e-003	4.7200e-003		74.4600	74.4600	1.4300e-003	1.3700e-003	74.9025
Mobile	0.0929	0.6570	0.9188	4.2000e-003	0.3264	2.4600e-003	0.3288	0.0873	2.2900e-003	0.0896		430.7400	430.7400	0.0240		431.3387
Total	0.5651	0.8424	1.6546	5.3700e-003	0.3264	0.0205	0.3469	0.0873	0.0203	0.1076	0.0000	658.8591	658.8591	0.0295	4.1700e-003	660.8348

19384 2700 East Alejo Road - Riverside-Salton Sea County, 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	0.54	2.57	4.30	7.25	10.35	2.43	9.92	10.35	2.40	8.94	0.00	6.42	6.42	3.73	1.88	6.41

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/20/2022	1/27/2022	5	6	
2	Building Construction	Building Construction	1/28/2022	12/1/2022	5	220	
3	Paving	Paving	12/2/2022	12/15/2022	5	10	
4	Architectural Coating	Architectural Coating	12/16/2022	12/29/2022	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 29,160; Residential Outdoor: 9,720; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

19384 2700 East Alejo Road - Riverside-Salton Sea County, 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	1	8.00	9	0.56
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Building Construction	Welders	3	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	4	10.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	3.00	1.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

19384 2700 East Alejo Road - Riverside-Salton Sea County, Winter

3.2 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829		1,995.4825	1,995.4825	0.6454		2,011.6169
Total	1.5403	16.9836	9.2202	0.0206	6.5523	0.7423	7.2946	3.3675	0.6829	4.0504		1,995.4825	1,995.4825	0.6454		2,011.6169

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	0.0350	0.0194	0.2153	7.0000e-004	0.0837	5.0000e-004	0.0842	0.0222	4.6000e-004	0.0227		69.3869	69.3869	1.5300e-003		69.4252
Total	0.0350	0.0194	0.2153	7.0000e-004	0.0837	5.0000e-004	0.0842	0.0222	4.6000e-004	0.0227		69.3869	69.3869	1.5300e-003		69.4252

19384 2700 East Alejo Road - Riverside-Salton Sea County, Winter

3.2 Grading - 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					
Fugitive Dust					2.5554	0.0000	2.5554	1.3133	0.0000	1.3133			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829	0.0000	1,995.4825	1,995.4825	0.6454		2,011.6169
Total	1.5403	16.9836	9.2202	0.0206	2.5554	0.7423	3.2977	1.3133	0.6829	1.9962	0.0000	1,995.4825	1,995.4825	0.6454		2,011.6169

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	0.0350	0.0194	0.2153	7.0000e-004	0.0837	5.0000e-004	0.0842	0.0222	4.6000e-004	0.0227		69.3869	69.3869	1.5300e-003		69.4252
Total	0.0350	0.0194	0.2153	7.0000e-004	0.0837	5.0000e-004	0.0842	0.0222	4.6000e-004	0.0227		69.3869	69.3869	1.5300e-003		69.4252

19384 2700 East Alejo Road - Riverside-Salton Sea County, Winter

3.3 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289.2813	2,289.2813	0.4417		2,300.3230
Total	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731		2,289.2813	2,289.2813	0.4417		2,300.3230

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	2.1300e-003	0.0812	0.0171	2.1000e-004	5.0200e-003	1.2000e-004	5.1400e-003	1.4500e-003	1.2000e-004	1.5600e-003		21.9217	21.9217	2.0100e-003		21.9719
Worker	0.0105	5.8300e-003	0.0646	2.1000e-004	0.0251	1.5000e-004	0.0253	6.6600e-003	1.4000e-004	6.7900e-003		20.8161	20.8161	4.6000e-004		20.8276
Total	0.0126	0.0870	0.0817	4.2000e-004	0.0301	2.7000e-004	0.0304	8.1100e-003	2.6000e-004	8.3500e-003		42.7378	42.7378	2.4700e-003		42.7995

19384 2700 East Alejo Road - Riverside-Salton Sea County, Winter

3.3 Building Construction - 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	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731	0.0000	2,289.2813	2,289.2813	0.4417		2,300.3230
Total	1.8555	14.6040	14.3533	0.0250		0.7022	0.7022		0.6731	0.6731	0.0000	2,289.2813	2,289.2813	0.4417		2,300.3230

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	2.1300e-003	0.0812	0.0171	2.1000e-004	5.0200e-003	1.2000e-004	5.1400e-003	1.4500e-003	1.2000e-004	1.5600e-003		21.9217	21.9217	2.0100e-003		21.9719
Worker	0.0105	5.8300e-003	0.0646	2.1000e-004	0.0251	1.5000e-004	0.0253	6.6600e-003	1.4000e-004	6.7900e-003		20.8161	20.8161	4.6000e-004		20.8276
Total	0.0126	0.0870	0.0817	4.2000e-004	0.0301	2.7000e-004	0.0304	8.1100e-003	2.6000e-004	8.3500e-003		42.7378	42.7378	2.4700e-003		42.7995

19384 2700 East Alejo Road - Riverside-Salton Sea County, Winter

3.4 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9412	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500		1,709.6892	1,709.6892	0.5419		1,723.2356
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9412	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500		1,709.6892	1,709.6892	0.5419		1,723.2356

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	0.0525	0.0292	0.3230	1.0400e-003	0.1255	7.4000e-004	0.1262	0.0333	6.8000e-004	0.0340		104.0804	104.0804	2.3000e-003		104.1379
Total	0.0525	0.0292	0.3230	1.0400e-003	0.1255	7.4000e-004	0.1262	0.0333	6.8000e-004	0.0340		104.0804	104.0804	2.3000e-003		104.1379

19384 2700 East Alejo Road - Riverside-Salton Sea County, Winter

3.4 Paving - 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	0.9412	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500	0.0000	1,709.6892	1,709.6892	0.5419		1,723.2356
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9412	9.3322	11.6970	0.0179		0.4879	0.4879		0.4500	0.4500	0.0000	1,709.6892	1,709.6892	0.5419		1,723.2356

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	0.0525	0.0292	0.3230	1.0400e-003	0.1255	7.4000e-004	0.1262	0.0333	6.8000e-004	0.0340		104.0804	104.0804	2.3000e-003		104.1379
Total	0.0525	0.0292	0.3230	1.0400e-003	0.1255	7.4000e-004	0.1262	0.0333	6.8000e-004	0.0340		104.0804	104.0804	2.3000e-003		104.1379

19384 2700 East Alejo Road - Riverside-Salton Sea County, Winter

3.5 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	45.0522					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	45.2567	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

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	3.5000e-003	1.9400e-003	0.0215	7.0000e-005	8.3700e-003	5.0000e-005	8.4200e-003	2.2200e-003	5.0000e-005	2.2600e-003		6.9387	6.9387	1.5000e-004		6.9425
Total	3.5000e-003	1.9400e-003	0.0215	7.0000e-005	8.3700e-003	5.0000e-005	8.4200e-003	2.2200e-003	5.0000e-005	2.2600e-003		6.9387	6.9387	1.5000e-004		6.9425

19384 2700 East Alejo Road - Riverside-Salton Sea County, Winter

3.5 Architectural Coating - 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					
Archit. Coating	45.0522					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	45.2567	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

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	3.5000e-003	1.9400e-003	0.0215	7.0000e-005	8.3700e-003	5.0000e-005	8.4200e-003	2.2200e-003	5.0000e-005	2.2600e-003		6.9387	6.9387	1.5000e-004		6.9425
Total	3.5000e-003	1.9400e-003	0.0215	7.0000e-005	8.3700e-003	5.0000e-005	8.4200e-003	2.2200e-003	5.0000e-005	2.2600e-003		6.9387	6.9387	1.5000e-004		6.9425

4.0 Operational Detail - Mobile

19384 2700 East Alejo Road - Riverside-Salton Sea County, Winter

4.1 Mitigation Measures Mobile

Increase Density

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0929	0.6570	0.9188	4.2000e-003	0.3264	2.4600e-003	0.3288	0.0873	2.2900e-003	0.0896		430.7400	430.7400	0.0240		431.3387
Unmitigated	0.0955	0.6758	0.9916	4.6000e-003	0.3640	2.6900e-003	0.3667	0.0974	2.5100e-003	0.0999		471.5151	471.5151	0.0250		472.1404

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	76.32	76.32	68.40	168,191	150,789
Total	76.32	76.32	68.40	168,191	150,789

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

19384 2700 East Alejo Road - Riverside-Salton Sea County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	6.8300e-003	0.0583	0.0248	3.7000e-004		4.7200e-003	4.7200e-003		4.7200e-003	4.7200e-003		74.4600	74.4600	1.4300e-003	1.3700e-003	74.9025
NaturalGas Unmitigated	7.2300e-003	0.0618	0.0263	3.9000e-004		5.0000e-003	5.0000e-003		5.0000e-003	5.0000e-003		78.8942	78.8942	1.5100e-003	1.4500e-003	79.3630

19384 2700 East Alejo Road - Riverside-Salton Sea County, 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					
Single Family Housing	670.601	7.2300e-003	0.0618	0.0263	3.9000e-004		5.0000e-003	5.0000e-003		5.0000e-003	5.0000e-003		78.8942	78.8942	1.5100e-003	1.4500e-003	79.3630
Total		7.2300e-003	0.0618	0.0263	3.9000e-004		5.0000e-003	5.0000e-003		5.0000e-003	5.0000e-003		78.8942	78.8942	1.5100e-003	1.4500e-003	79.3630

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	0.63291	6.8300e-003	0.0583	0.0248	3.7000e-004		4.7200e-003	4.7200e-003		4.7200e-003	4.7200e-003		74.4600	74.4600	1.4300e-003	1.3700e-003	74.9025
Total		6.8300e-003	0.0583	0.0248	3.7000e-004		4.7200e-003	4.7200e-003		4.7200e-003	4.7200e-003		74.4600	74.4600	1.4300e-003	1.3700e-003	74.9025

6.0 Area Detail

6.1 Mitigation Measures Area

19384 2700 East Alejo Road - Riverside-Salton Sea County, 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	0.4655	0.1271	0.7110	8.0000e-004		0.0133	0.0133		0.0133	0.0133	0.0000	153.6590	153.6590	4.0700e-003	2.8000e-003	154.5936
Unmitigated	0.4655	0.1271	0.7110	8.0000e-004		0.0133	0.0133		0.0133	0.0133	0.0000	153.6590	153.6590	4.0700e-003	2.8000e-003	154.5936

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	0.1234					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3082					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0140	0.1194	0.0508	7.6000e-004		9.6600e-003	9.6600e-003		9.6600e-003	9.6600e-003	0.0000	152.4706	152.4706	2.9200e-003	2.8000e-003	153.3766
Landscaping	0.0199	7.6100e-003	0.6602	3.0000e-005		3.6500e-003	3.6500e-003		3.6500e-003	3.6500e-003		1.1884	1.1884	1.1400e-003		1.2170
Total	0.4655	0.1271	0.7110	7.9000e-004		0.0133	0.0133		0.0133	0.0133	0.0000	153.6590	153.6590	4.0600e-003	2.8000e-003	154.5936

19384 2700 East Alejo Road - Riverside-Salton Sea County, 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	0.1234					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.3082					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0140	0.1194	0.0508	7.6000e-004		9.6600e-003	9.6600e-003		9.6600e-003	9.6600e-003	0.0000	152.4706	152.4706	2.9200e-003	2.8000e-003	153.3766
Landscaping	0.0199	7.6100e-003	0.6602	3.0000e-005		3.6500e-003	3.6500e-003		3.6500e-003	3.6500e-003		1.1884	1.1884	1.1400e-003		1.2170
Total	0.4655	0.1271	0.7110	7.9000e-004		0.0133	0.0133		0.0133	0.0133	0.0000	153.6590	153.6590	4.0600e-003	2.8000e-003	154.5936

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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19384 2700 East Alejo Road - Riverside-Salton Sea County, Winter

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

APPENDIX C

CALHEMOD MODEL ANNUAL EMISSIONS PRINTOUTS

19384 2700 East Alejo Road - Riverside-Salton Sea County, Annual

**19384 2700 East Alejo Road
Riverside-Salton Sea County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	8.00	Dwelling Unit	2.53	14,400.00	23

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

19384 2700 East Alejo Road - Riverside-Salton Sea County, Annual

Project Characteristics -

Land Use - Site is ~2.53 acres with 8 single-family residential dwelling units proposed.

Construction Phase - Construction anticipated to begin early 2022 and be completed in ~12 months. No demolition or site preparation, site is vacant. CalEEMod default timing utilized.

Grading - Site is anticipated to balance.

Vehicle Trips - 10th Ed ITE Manual, SFD trip generation rates are 9.44 trips/DU/day on weekdays, 9.54 trips/DU/day on Saturdays, & 8.55 trips/DU/day on Sundays.

Woodstoves - SCAQMD Rule 445 prohibits the installation of wood burning devices in new developments.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - Site is ~0.32 miles SE of Sunline Rte 14 stop Farrell at Tamarisk. 8 SFD /2.53 ac = 3.16 DU/ac.

Energy Mitigation - 2019 Title 24 Standards for residential bldgs will use ~7% less energy than with 2016 Title 24 standards.

Water Mitigation - 20% reduction indoor water use per CalGreen standards.

Waste Mitigation - AB 341 requires each jurisdiction in CA to divert at least 75% of their waste away from landfills by 2020.

19384 2700 East Alejo Road - Riverside-Salton Sea County, Annual

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	PhaseEndDate	1/12/2023	12/29/2022
tblConstructionPhase	PhaseEndDate	12/15/2022	12/1/2022
tblConstructionPhase	PhaseEndDate	2/10/2022	1/27/2022
tblConstructionPhase	PhaseEndDate	12/29/2022	12/15/2022
tblConstructionPhase	PhaseStartDate	12/30/2022	12/16/2022
tblConstructionPhase	PhaseStartDate	2/11/2022	1/28/2022
tblConstructionPhase	PhaseStartDate	2/3/2022	1/20/2022
tblConstructionPhase	PhaseStartDate	12/16/2022	12/2/2022
tblFireplaces	NumberGas	6.40	7.20
tblFireplaces	NumberWood	0.80	0.00
tblLandUse	LotAcreage	2.60	2.53
tblVehicleTrips	ST_TR	9.91	9.54
tblVehicleTrips	SU_TR	8.62	8.55
tblVehicleTrips	WD_TR	9.52	9.54
tblWoodstoves	NumberCatalytic	0.40	0.00
tblWoodstoves	NumberNoncatalytic	0.40	0.00

2.0 Emissions Summary

19384 2700 East Alejo Road - Riverside-Salton Sea County, 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	0.4414	1.7211	1.6858	2.9700e-003	0.0238	0.0824	0.1062	0.0112	0.0788	0.0900	0.0000	247.9981	247.9981	0.0486	0.0000	249.2136
Maximum	0.4414	1.7211	1.6858	2.9700e-003	0.0238	0.0824	0.1062	0.0112	0.0788	0.0900	0.0000	247.9981	247.9981	0.0486	0.0000	249.2136

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	0.4414	1.7211	1.6858	2.9700e-003	0.0118	0.0824	0.0942	5.0600e-003	0.0788	0.0838	0.0000	247.9978	247.9978	0.0486	0.0000	249.2133
Maximum	0.4414	1.7211	1.6858	2.9700e-003	0.0118	0.0824	0.0942	5.0600e-003	0.0788	0.0838	0.0000	247.9978	247.9978	0.0486	0.0000	249.2133

	ROG	NOx	CO	SO2	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	50.34	0.00	11.29	54.90	0.00	6.84	0.00	0.00	0.00	0.00	0.00	0.00

19384 2700 East Alejo Road - Riverside-Salton Sea County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2022	3-31-2022	0.4257	0.4257
2	4-1-2022	6-30-2022	0.5382	0.5382
3	7-1-2022	9-30-2022	0.5441	0.5441
		Highest	0.5441	0.5441

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	0.0811	5.5800e-003	0.0615	3.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004	0.0000	5.7681	5.7681	2.0000e-004	1.0000e-004	5.8041
Energy	1.3200e-003	0.0113	4.8000e-003	7.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	35.2799	35.2799	1.1700e-003	4.3000e-004	35.4370
Mobile	0.0172	0.1232	0.1822	8.5000e-004	0.0642	4.8000e-004	0.0647	0.0172	4.5000e-004	0.0177	0.0000	78.6567	78.6567	3.9400e-003	0.0000	78.7551
Waste						0.0000	0.0000		0.0000	0.0000	1.9142	0.0000	1.9142	0.1131	0.0000	4.7424
Water						0.0000	0.0000		0.0000	0.0000	0.1654	3.3257	3.4911	0.0171	4.3000e-004	4.0471
Total	0.0996	0.1401	0.2485	9.5000e-004	0.0642	2.1100e-003	0.0663	0.0172	2.0800e-003	0.0193	2.0796	123.0304	125.1099	0.1356	9.6000e-004	128.7857

19384 2700 East Alejo Road - Riverside-Salton Sea County, 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	0.0811	5.5800e-003	0.0615	3.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004	0.0000	5.7681	5.7681	2.0000e-004	1.0000e-004	5.8041
Energy	1.2500e-003	0.0106	4.5300e-003	7.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	34.3759	34.3759	1.1500e-003	4.1000e-004	34.5281
Mobile	0.0167	0.1198	0.1684	7.7000e-004	0.0576	4.4000e-004	0.0580	0.0154	4.1000e-004	0.0158	0.0000	71.9207	71.9207	3.7600e-003	0.0000	72.0147
Waste						0.0000	0.0000		0.0000	0.0000	0.4786	0.0000	0.4786	0.0283	0.0000	1.1856
Water						0.0000	0.0000		0.0000	0.0000	0.1323	2.8932	3.0255	0.0137	3.5000e-004	3.4711
Total	0.0991	0.1360	0.2345	8.7000e-004	0.0576	2.0200e-003	0.0596	0.0154	1.9900e-003	0.0174	0.6108	114.9580	115.5688	0.0471	8.6000e-004	117.0037

	ROG	NOx	CO	SO2	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	0.56	2.90	5.66	8.42	10.36	4.27	10.16	10.35	4.33	9.70	70.63	6.56	7.63	65.26	10.42	9.15

3.0 Construction Detail

Construction Phase

19384 2700 East Alejo Road - Riverside-Salton Sea County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/20/2022	1/27/2022	5	6	
2	Building Construction	Building Construction	1/28/2022	12/1/2022	5	220	
3	Paving	Paving	12/2/2022	12/15/2022	5	10	
4	Architectural Coating	Architectural Coating	12/16/2022	12/29/2022	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 29,160; Residential Outdoor: 9,720; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

19384 2700 East Alejo Road - Riverside-Salton Sea County, 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	1	8.00	9	0.56
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Paving	Paving Equipment	1	8.00	132	0.36
Building Construction	Welders	3	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	4	10.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	3.00	1.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	11.00	5.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

19384 2700 East Alejo Road - Riverside-Salton Sea County, Annual

3.2 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0197	0.0000	0.0197	0.0101	0.0000	0.0101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6200e-003	0.0510	0.0277	6.0000e-005		2.2300e-003	2.2300e-003		2.0500e-003	2.0500e-003	0.0000	5.4308	5.4308	1.7600e-003	0.0000	5.4747
Total	4.6200e-003	0.0510	0.0277	6.0000e-005	0.0197	2.2300e-003	0.0219	0.0101	2.0500e-003	0.0122	0.0000	5.4308	5.4308	1.7600e-003	0.0000	5.4747

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-004	6.0000e-005	6.8000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1937	0.1937	0.0000	0.0000	0.1938
Total	1.0000e-004	6.0000e-005	6.8000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1937	0.1937	0.0000	0.0000	0.1938

19384 2700 East Alejo Road - Riverside-Salton Sea County, Annual

3.2 Grading - 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	tons/yr										MT/yr					
Fugitive Dust					7.6700e-003	0.0000	7.6700e-003	3.9400e-003	0.0000	3.9400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6200e-003	0.0510	0.0277	6.0000e-005		2.2300e-003	2.2300e-003		2.0500e-003	2.0500e-003	0.0000	5.4308	5.4308	1.7600e-003	0.0000	5.4747
Total	4.6200e-003	0.0510	0.0277	6.0000e-005	7.6700e-003	2.2300e-003	9.9000e-003	3.9400e-003	2.0500e-003	5.9900e-003	0.0000	5.4308	5.4308	1.7600e-003	0.0000	5.4747

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-004	6.0000e-005	6.8000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1937	0.1937	0.0000	0.0000	0.1938
Total	1.0000e-004	6.0000e-005	6.8000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1937	0.1937	0.0000	0.0000	0.1938

19384 2700 East Alejo Road - Riverside-Salton Sea County, Annual

3.3 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	0.2041	1.6064	1.5789	2.7500e-003		0.0772	0.0772		0.0740	0.0740	0.0000	228.4481	228.4481	0.0441	0.0000	229.5500
Total	0.2041	1.6064	1.5789	2.7500e-003		0.0772	0.0772		0.0740	0.0740	0.0000	228.4481	228.4481	0.0441	0.0000	229.5500

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	2.2000e-004	9.0800e-003	1.7100e-003	2.0000e-005	5.4000e-004	1.0000e-005	5.6000e-004	1.6000e-004	1.0000e-005	1.7000e-004	0.0000	2.2469	2.2469	1.9000e-004	0.0000	2.2516
Worker	1.0700e-003	6.6000e-004	7.4800e-003	2.0000e-005	2.7100e-003	2.0000e-005	2.7300e-003	7.2000e-004	2.0000e-005	7.4000e-004	0.0000	2.1304	2.1304	5.0000e-005	0.0000	2.1316
Total	1.2900e-003	9.7400e-003	9.1900e-003	4.0000e-005	3.2500e-003	3.0000e-005	3.2900e-003	8.8000e-004	3.0000e-005	9.1000e-004	0.0000	4.3773	4.3773	2.4000e-004	0.0000	4.3832

19384 2700 East Alejo Road - Riverside-Salton Sea County, Annual

3.3 Building Construction - 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	tons/yr										MT/yr					
Off-Road	0.2041	1.6064	1.5789	2.7500e-003		0.0772	0.0772		0.0740	0.0740	0.0000	228.4478	228.4478	0.0441	0.0000	229.5497
Total	0.2041	1.6064	1.5789	2.7500e-003		0.0772	0.0772		0.0740	0.0740	0.0000	228.4478	228.4478	0.0441	0.0000	229.5497

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	2.2000e-004	9.0800e-003	1.7100e-003	2.0000e-005	5.4000e-004	1.0000e-005	5.6000e-004	1.6000e-004	1.0000e-005	1.7000e-004	0.0000	2.2469	2.2469	1.9000e-004	0.0000	2.2516
Worker	1.0700e-003	6.6000e-004	7.4800e-003	2.0000e-005	2.7100e-003	2.0000e-005	2.7300e-003	7.2000e-004	2.0000e-005	7.4000e-004	0.0000	2.1304	2.1304	5.0000e-005	0.0000	2.1316
Total	1.2900e-003	9.7400e-003	9.1900e-003	4.0000e-005	3.2500e-003	3.0000e-005	3.2900e-003	8.8000e-004	3.0000e-005	9.1000e-004	0.0000	4.3773	4.3773	2.4000e-004	0.0000	4.3832

19384 2700 East Alejo Road - Riverside-Salton Sea County, Annual

3.4 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.7100e-003	0.0467	0.0585	9.0000e-005		2.4400e-003	2.4400e-003		2.2500e-003	2.2500e-003	0.0000	7.7550	7.7550	2.4600e-003	0.0000	7.8165
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.7100e-003	0.0467	0.0585	9.0000e-005		2.4400e-003	2.4400e-003		2.2500e-003	2.2500e-003	0.0000	7.7550	7.7550	2.4600e-003	0.0000	7.8165

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.5000e-004	1.7000e-003	1.0000e-005	6.2000e-004	0.0000	6.2000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.4842	0.4842	1.0000e-005	0.0000	0.4845
Total	2.4000e-004	1.5000e-004	1.7000e-003	1.0000e-005	6.2000e-004	0.0000	6.2000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.4842	0.4842	1.0000e-005	0.0000	0.4845

19384 2700 East Alejo Road - Riverside-Salton Sea County, Annual

3.4 Paving - 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	tons/yr										MT/yr					
Off-Road	4.7100e-003	0.0467	0.0585	9.0000e-005		2.4400e-003	2.4400e-003		2.2500e-003	2.2500e-003	0.0000	7.7550	7.7550	2.4600e-003	0.0000	7.8165
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.7100e-003	0.0467	0.0585	9.0000e-005		2.4400e-003	2.4400e-003		2.2500e-003	2.2500e-003	0.0000	7.7550	7.7550	2.4600e-003	0.0000	7.8165

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	1.5000e-004	1.7000e-003	1.0000e-005	6.2000e-004	0.0000	6.2000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.4842	0.4842	1.0000e-005	0.0000	0.4845
Total	2.4000e-004	1.5000e-004	1.7000e-003	1.0000e-005	6.2000e-004	0.0000	6.2000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.4842	0.4842	1.0000e-005	0.0000	0.4845

19384 2700 East Alejo Road - Riverside-Salton Sea County, Annual

3.5 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2253					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
Total	0.2263	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.1000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0323	0.0323	0.0000	0.0000	0.0323
Total	2.0000e-005	1.0000e-005	1.1000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0323	0.0323	0.0000	0.0000	0.0323

19384 2700 East Alejo Road - Riverside-Salton Sea County, Annual

3.5 Architectural Coating - 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	tons/yr										MT/yr					
Archit. Coating	0.2253					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0200e-003	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787
Total	0.2263	7.0400e-003	9.0700e-003	1.0000e-005		4.1000e-004	4.1000e-004		4.1000e-004	4.1000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2787

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.1000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0323	0.0323	0.0000	0.0000	0.0323
Total	2.0000e-005	1.0000e-005	1.1000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0323	0.0323	0.0000	0.0000	0.0323

4.0 Operational Detail - Mobile

19384 2700 East Alejo Road - Riverside-Salton Sea County, Annual

4.1 Mitigation Measures Mobile

Increase Density

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive 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	0.0167	0.1198	0.1684	7.7000e-004	0.0576	4.4000e-004	0.0580	0.0154	4.1000e-004	0.0158	0.0000	71.9207	71.9207	3.7600e-003	0.0000	72.0147
Unmitigated	0.0172	0.1232	0.1822	8.5000e-004	0.0642	4.8000e-004	0.0647	0.0172	4.5000e-004	0.0177	0.0000	78.6567	78.6567	3.9400e-003	0.0000	78.7551

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	76.32	76.32	68.40	168,191	150,789
Total	76.32	76.32	68.40	168,191	150,789

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	11.00	3.50	4.50	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

19384 2700 East Alejo Road - Riverside-Salton Sea County, Annual

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.548600	0.036250	0.186898	0.112544	0.014284	0.004806	0.017604	0.070134	0.001409	0.001147	0.004508	0.000918	0.000898

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	22.0483	22.0483	9.1000e-004	1.9000e-004	22.1271
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	22.2181	22.2181	9.2000e-004	1.9000e-004	22.2975
NaturalGas Mitigated	1.2500e-003	0.0106	4.5300e-003	7.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	12.3277	12.3277	2.4000e-004	2.3000e-004	12.4010
NaturalGas Unmitigated	1.3200e-003	0.0113	4.8000e-003	7.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	13.0618	13.0618	2.5000e-004	2.4000e-004	13.1394

19384 2700 East Alejo Road - Riverside-Salton Sea County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	244769	1.3200e-003	0.0113	4.8000e-003	7.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	13.0618	13.0618	2.5000e-004	2.4000e-004	13.1394
Total		1.3200e-003	0.0113	4.8000e-003	7.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	13.0618	13.0618	2.5000e-004	2.4000e-004	13.1394

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	231012	1.2500e-003	0.0106	4.5300e-003	7.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	12.3277	12.3277	2.4000e-004	2.3000e-004	12.4010
Total		1.2500e-003	0.0106	4.5300e-003	7.0000e-005		8.6000e-004	8.6000e-004		8.6000e-004	8.6000e-004	0.0000	12.3277	12.3277	2.4000e-004	2.3000e-004	12.4010

19384 2700 East Alejo Road - Riverside-Salton Sea County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	69731.8	22.2181	9.2000e-004	1.9000e-004	22.2975
Total		22.2181	9.2000e-004	1.9000e-004	22.2975

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	69198.9	22.0483	9.1000e-004	1.9000e-004	22.1271
Total		22.0483	9.1000e-004	1.9000e-004	22.1271

6.0 Area Detail

6.1 Mitigation Measures Area

19384 2700 East Alejo Road - Riverside-Salton Sea County, Annual

	ROG	NOx	CO	SO2	Fugitive 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	0.0811	5.5800e-003	0.0615	3.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004	0.0000	5.7681	5.7681	2.0000e-004	1.0000e-004	5.8041
Unmitigated	0.0811	5.5800e-003	0.0615	3.0000e-005		7.2000e-004	7.2000e-004		7.2000e-004	7.2000e-004	0.0000	5.7681	5.7681	2.0000e-004	1.0000e-004	5.8041

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	0.0225					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0562					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	5.7000e-004	4.9000e-003	2.0800e-003	3.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	5.6711	5.6711	1.1000e-004	1.0000e-004	5.7048
Landscaping	1.7900e-003	6.8000e-004	0.0594	0.0000		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	0.0970	0.0970	9.0000e-005	0.0000	0.0994
Total	0.0811	5.5800e-003	0.0615	3.0000e-005		7.3000e-004	7.3000e-004		7.3000e-004	7.3000e-004	0.0000	5.7681	5.7681	2.0000e-004	1.0000e-004	5.8041

19384 2700 East Alejo Road - Riverside-Salton Sea County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0225					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0562					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	5.7000e-004	4.9000e-003	2.0800e-003	3.0000e-005		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	5.6711	5.6711	1.1000e-004	1.0000e-004	5.7048
Landscaping	1.7900e-003	6.8000e-004	0.0594	0.0000		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004	0.0000	0.0970	0.0970	9.0000e-005	0.0000	0.0994
Total	0.0811	5.5800e-003	0.0615	3.0000e-005		7.3000e-004	7.3000e-004		7.3000e-004	7.3000e-004	0.0000	5.7681	5.7681	2.0000e-004	1.0000e-004	5.8041

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

19384 2700 East Alejo Road - Riverside-Salton Sea County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.0255	0.0137	3.5000e-004	3.4711
Unmitigated	3.4911	0.0171	4.3000e-004	4.0471

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.521232 / 0.328603	3.4911	0.0171	4.3000e-004	4.0471
Total		3.4911	0.0171	4.3000e-004	4.0471

19384 2700 East Alejo Road - Riverside-Salton Sea County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.416986 / 0.328603	3.0255	0.0137	3.5000e-004	3.4711
Total		3.0255	0.0137	3.5000e-004	3.4711

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

19384 2700 East Alejo Road - Riverside-Salton Sea County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.4786	0.0283	0.0000	1.1856
Unmitigated	1.9142	0.1131	0.0000	4.7424

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	9.43	1.9142	0.1131	0.0000	4.7424
Total		1.9142	0.1131	0.0000	4.7424

19384 2700 East Alejo Road - Riverside-Salton Sea County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	2.3575	0.4786	0.0283	0.0000	1.1856
Total		0.4786	0.0283	0.0000	1.1856

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

19384 2700 East Alejo Road - Riverside-Salton Sea County, Annual
