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RE: Alliance Propane and RV Storage Lot Air Quality Assessment – City of Murrieta

The purpose of this Air Quality (AQ) screening letter is to identify any impacts, if any, which may be created from the construction and operation of the proposed Commercial development. The Project proposes to construct a 312 space Recreational Vehicle (RV) and boat storage on a 5.74-acre parcel & a propane distribution facility on a 1.15-acre parcel. Additionally, the project would construct a roughly 1,200 square foot (SF) operations building onsite.

Operations of the project would consist of daily propane delivery activities both to and from site. The Project site located on a vacant lot south of the Murrieta Valley Pony Baseball field on the east side of Adams Avenue between Fig and Elm street in the City of Murrieta.

The proposed project, at full buildout, would generate roughly 84 trips per day of which 56 would be from the RV storage area. The propane facility would generate 24 truck trips and 4 employee trips per day (Infrastructure Group, Inc., 2020).

City of Murrieta Thresholds of Significance

To determine whether a project would create potential air quality impacts, the City of Murrieta uses South Coast Air Quality Management District's (SQAQMD) Air Quality Thresholds. The screening thresholds for construction and daily operations are shown in Table 1 on the following page.

The U.S. Environmental Protection Agency (U.S. EPA) uses the term Volatile Organic Compounds (VOC) and the California Air Resources Board's (CARB's) Emission Inventory Branch (EIB) uses the term Reactive Organic Gases (ROG) to essentially define the same thing. There are minor deviations between compounds that define each term however for purposes of this study we will assume they are essentially the same due to the fact SCAQMD interchanges these words and because CALLEEMOD 2016.3.2 directly calculates ROG in place of VOC.

Table 1: Screening Threshold for Criteria Pollutants

Pollutant	Total Emissions (Pounds per Day)
Construction Emissions	
Respirable Particulate Matter (PM ₁₀ and PM _{2.5})	150 and 55
Nitrogen Oxide (NO _x)	100
Sulfur Oxide (SO _x)	150
Carbon Monoxide (CO)	550
Volatile Organic Compounds (VOCs)	75
Operational Emissions	
Respirable Particulate Matter (PM ₁₀ and PM _{2.5})	150 and 55
Nitrogen Oxide (NO _x)	55
Sulfur Oxide (SO _x)	150
Carbon Monoxide (CO)	550
Lead and Lead Compounds	3.2
Volatile Organic Compounds (VOCs)	55

Project Related Construction Emissions

Air Quality impacts related to construction and daily operations were calculated using the latest CalEEMod air quality model, which was developed by Breeze Software for South Coast Air Quality Management District (SCAQMD) in 2017. The City of Murrieta recognizes the CalEEMod 2016.3.2 as the model of choice for projects of this nature.

The Construction of the Project would be within a 6.89 Acre project site. The proposed construction schedule and construction equipment list is identified in Table 2 below. It should be noted that construction equipment is typically Tier 4 as defined by the U.S. EPA however for purposes of this analysis it was assumed that equipment is Tier 3 or better. The construction emissions as calculated in CalEEMod are reported in lbs/day and are shown in Table 3 on the following page. The Project modeling outputs from CalEEMod are provided as **Attachment A** to this letter report.

Table 2: Proposed Construction Phase and Duration

Equipment Identification	Proposed Start	Proposed Completion	Quantity
Site Preparation	01/01/2021	01/14/2021	
Rubber Tired Dozers			1
Tractors/Loaders/Backhoes			4
Grading	01/15/2021	02/11/2021	
Graders			1
Rubber Tired Dozers			1
Tractors/Loaders/Backhoes			3
Paving	02/12/2021	03/25/2021	
Pavers			2
Paving Equipment			2
Rollers			2
Building Construction	03/26/2021	05/27/2021	
Generator Sets			1
Rough Terrain Forklifts			1
Tractors/Loaders/Backhoes			2
Welders			1
Architectural Coating	05/14/2021	05/27/2021	
This equipment list is based upon equipment inventory and estimates within CalEEMod 2016.3.2.			

Table 3: Expected Daily Construction Emissions Summary Lb/Day

Year	ROG	NO _x	CO	SO ₂	PM ₁₀ (Dust)	PM ₁₀ (Exhaust)	PM ₁₀ (Total)	PM _{2.5} (Dust)	PM _{2.5} (Exhaust)	PM _{2.5} (Total)
2021 (lb/day) Unmitigated	9.28	15.17	19.48	0.05	6.70	0.77	7.34	3.41	0.77	4.04
Significance Threshold (lb/day)	75	100	550	150	-	-	150	-	-	55
SCAQMD Impact?	No	No	No	No	-	-	No	-	-	No
Expected Construction emissions are based upon CalEEMod 2016.3.2 modeling assumptions for equipment and durations listed in Table 2 above using Tier 3 equipment.										

Operational Emissions Calculation Methodology

The proposed project, at full buildout, would generate roughly 84 trips per day of which 56 would be from the RV storage area. The propane facility would generate 24 truck trips and 4 employee trips per day. CalEEMod 2016.3.2 was used to determine operational emissions and is provided as **Attachment A**. The worst-case summer and winter emissions are shown in Tables 4 and 5. Based on this information, operational impacts would be less than significant.

Table 4: Operational Unmitigated - Summer Daily Pollutant Generation

	ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Area Source Emission Estimates (Lb/Day)	0.13	0.00	0.00	0.00	0.00	0.00
Energy Emission Estimates (Lb/Day)	0.00	0.01	0.01	0.00	0.00	0.00
Mobile Emission Estimates (Lb/Day)	0.02	0.35	0.19	0.00	0.10	0.03
Total (Lb/Day)	0.15	0.36	0.20	0.00	0.10	0.03
SCAQMD Thresholds	55	55	550	150	150	55
Significant?	No	No	No	No	No	No

Table 5: Operational Unmitigated - Winter Daily Pollutant Generation

	ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Area Source Emission Estimates (Lb/Day)	0.13	0.00	0.00	0.00	0.00	0.00
Energy Emission Estimates (Lb/Day)	0.00	0.01	0.01	0.00	0.00	0.00
Mobile Emission Estimates (Lb/Day)	0.02	0.36	0.18	0.00	0.10	0.03
Total (Lb/Day)	0.15	0.37	0.19	0.00	0.10	0.03
SCAQMD Thresholds	55	55	550	150	150	55
Significant?	No	No	No	No	No	No

Localized Significance Analysis

In June 2003, the SCAQMD proposed a methodology for calculating Localized Significance Thresholds (LSTs) for NO₂, CO, PM_{2.5} and PM₁₀. The LST methodology was developed to be used as a tool to assist lead agencies to analyze localized impacts associated with project-specific level proposed projects and would not be applicable to regional projects such as general plans. The LST methodology was last updated to incorporate the most recent ambient air quality standards (July 2008). (South Coast Air Quality Management District, 2008). The LST methodology is often utilized by most agencies governed under SCAQMD CEQA review. SCAQMD developed mass rate look-up tables for projects to assist agencies with development of LSTs (South Coast Air Quality Management District, 2014).

Per the requirements of SCAQMDs LSTs methodology, emissions for gases in attainment such as NO₂ and CO are calculated by adding emission impacts from the project development to the peak background ambient NO₂ and CO concentrations and comparing the total concentration to the most stringent ambient air quality standards. Also, according to SCAQMD Rule 403,

emissions for non-attainment particulate matter such as PM 10 and PM 2.5 can produce no more than 10.4 µg/m³. The LSTs derived by SCAQMD differentiated by Source Receptor area for which the proposed project is would be represented by SRA #26 within the Temecula Valley area. The project was analyzed using a worst-case construction schedule where all buildings and the parking are under construction simultaneously using the appropriate equipment and quantities for this scenario with a 5-acre disturbed area. Table 6 below shows the worst-case project LST at 25 meters (SCAQMD, 2009).

Table 6: LST Emission Thresholds (5-Acre Site)

Pollutant	LST @ 25 meters (lb/day)
CO	1,965
PM ₁₀ (Construction)	13
PM ₁₀ (Operation)	4
PM _{2.5} (Construction)	8
PM _{2.5} (Operation)	2
NO ₂ (Corrected utilizing NO ₂ /NO _x Ratio) Construction and Operation	371

Table 7 shows the modeled estimates for both construction and operations excluding offsite mobile emissions. Furthermore, the worst case LST is at 25 meters from the project centroid and will be utilized for this project. Since this is worst case, if the project complies at 25 meters, it will comply at all locations beyond this distance. Based on the modeling results, a less than significant LST impact is expected.

Table 7: On-Site Daily Emissions for Comparison to LSTs

Pollutant	Project without Offsite mobile emissions (lb/day)	Localized Significance Threshold SRA 25 5-Acre (lb/day)	Significant?
CO (Construction)	19.48	1,965	No
CO (Operation)	0.20	1,965	No
PM ₁₀ (Construction)	7.34	13	No
PM ₁₀ (Operation)	0.10	4	No
PM _{2.5} (Construction)	4.04	8	No
PM _{2.5} (Operation)	0.03	2	No
NO _x (Construction)	15.17	371	No
NO _x (Operation)	0.37	371	No

Findings

Will the Project conflict with or obstruct implementation of the SCAQMD AQMP or applicable portions of the State Implementation Plan (SIP)?

The project has been developed to comply with the City of Murrieta's general plan. Since the project is compatible with the City's general plan and since project emissions would not exceed SCAQMD air quality thresholds, the project would not conflict with the implementation of the County's Air Quality Element or SCAQMD air quality management plans.

Result in emissions that would violate any air quality standard or contribute substantially to an existing or projected air quality violation?

Both Construction and Operational air quality emissions have been analyzed and were found to be less than significant when compared to SCAQMD air quality thresholds as well as LST, given this, the project would not violate any applicable air quality standards.

Result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is non-attainment under an applicable Federal or State ambient air quality standard (PM10, PM2.5 or exceed quantitative thresholds for O3 precursors, oxides of nitrogen [NOX] and Volatile Organic Compounds [VOCs])?

The proposed project is small and would not generate significant cumulative impacts. Air Quality emissions were significantly less than allowable thresholds. A cumulative impact would generally be considered if the proposed project were to be constructed simultaneous to any nearby adjacent or relatively close project to the site. The proposed project would not require any lengthy facility construction and air quality emissions are generally low when compared to the thresholds. Given this, cumulative air quality construction impacts would be less than significant.

Operational air quality emissions have been analyzed and were found to be less than significant when compared to SCAQMD air quality thresholds.

Expose sensitive receptors (including, but not limited to, schools, hospitals, resident care facilities, or day-care centers) to substantial pollutant concentrations?

Based upon a review of the area, the Project Propane Tanks would be roughly 700 feet from the nearest Pony Baseball Field and over 1,900 feet away from any residential units. Since the project would not exceed South Coast Air Quality Management District (SCAQMD) screening thresholds, a significant impact to these locations would not be expected.

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Create objectionable odors affecting a substantial number of people?

The proposed Project would be a propane distribution center. Odors from propane filling operations would not be expected. The site will not be open to the general public and the project would not fill customer owned propane tanks onsite. Given this, the Project would not be expected to generate offensive odors and would therefore not impact any sensitive receptors. Therefore, no odor impacts would occur on or off-site.

Given this, the project would be considered to generate less than significant AQ emissions. If you have any questions, please do not hesitate to contact me at (760) 473-1253.

Ldn Consulting, Inc.



Jeremy Loudon

Sources:

Infrastructure Group, Inc. (2020). *Adams 10 R.V. Storage & Propane Trip Generation Letter*.

SCAQMD. (2009, Oct 21). *Localized Significance Thresholds Lookup Tables*. Retrieved 2015, from <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/appendix-c-mass-rate-lst-look-up-tables.pdf?sfvrsn=2>

South Coast Air Quality Management District. (2008, July). *Finalized Localized Significance Threshold Methodology*. Retrieved from <http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/final-lst-methodology-document.pdf>

South Coast Air Quality Management District. (2014). *Localized Significance Thresholds*. Retrieved 2014, from <http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook/localized-significance-thresholds>

Attachment A: CalEEMod Model Results

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Summer

Alliance Propane Murrieta & RV Storage
Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	5.74	Acre	5.74	250,034.40	0
General Light Industry	1.20	1000sqft	1.15	1,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -
 Land Use - 1,200 Customer Office Area
 Construction Phase - Estimated Construction Schedule
 Off-road Equipment - ce
 Off-road Equipment -
 Off-road Equipment - e
 Fleet Mix - Per TS LDT1 is employee Trip, LHD2 is Tender Truck, MHD is Propane Supply Truck
 Construction Off-road Equipment Mitigation - Tier3 or better equipment

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Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	230.00	45.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	PhaseEndDate	12/27/2021	5/27/2021
tblConstructionPhase	PhaseEndDate	11/1/2021	5/27/2021
tblConstructionPhase	PhaseEndDate	12/14/2020	2/11/2021

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Summer

tblConstructionPhase	PhaseEndDate	11/29/2021	3/25/2021
tblConstructionPhase	PhaseEndDate	11/16/2020	1/14/2021
tblConstructionPhase	PhaseStartDate	11/30/2021	5/14/2021
tblConstructionPhase	PhaseStartDate	12/15/2020	3/26/2021
tblConstructionPhase	PhaseStartDate	11/17/2020	1/15/2021
tblConstructionPhase	PhaseStartDate	11/2/2021	2/12/2021
tblConstructionPhase	PhaseStartDate	11/3/2020	1/1/2021
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.14
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.9700e-003	0.14
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MHD	0.02	0.72
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblLandUse	LotAcreage	0.03	1.15
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

2.0 Emissions Summary

Alliance Propane Murrieta & RV Storage - Riverside-South Coast 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	0.1345	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.5200e-003	1.5200e-003	0.0000		1.6200e-003
Energy	1.1500e-003	0.0105	8.8000e-003	6.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004		12.5666	12.5666	2.4000e-004	2.3000e-004	12.6413
Mobile	0.0170	0.3456	0.1866	1.9600e-003	0.0948	1.4200e-003	0.0962	0.0279	1.3600e-003	0.0292		204.0589	204.0589	1.9400e-003		204.1075
Total	0.1527	0.3561	0.1961	2.0200e-003	0.0948	2.2200e-003	0.0970	0.0279	2.1600e-003	0.0300		216.6271	216.6271	2.1800e-003	2.3000e-004	216.7504

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	0.1345	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.5200e-003	1.5200e-003	0.0000		1.6200e-003
Energy	1.1500e-003	0.0105	8.8000e-003	6.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004		12.5666	12.5666	2.4000e-004	2.3000e-004	12.6413
Mobile	0.0170	0.3456	0.1866	1.9600e-003	0.0948	1.4200e-003	0.0962	0.0279	1.3600e-003	0.0292		204.0589	204.0589	1.9400e-003		204.1075
Total	0.1527	0.3561	0.1961	2.0200e-003	0.0948	2.2200e-003	0.0970	0.0279	2.1600e-003	0.0300		216.6271	216.6271	2.1800e-003	2.3000e-004	216.7504

Alliance Propane Murrieta & RV Storage - Riverside-South Coast 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2021	1/14/2021	5	10	
2	Grading	Grading	1/15/2021	2/11/2021	5	20	
3	Building Construction	Building Construction	3/26/2021	5/27/2021	5	45	
4	Paving	Paving	2/12/2021	3/25/2021	5	30	
5	Architectural Coating	Architectural Coating	5/14/2021	5/27/2021	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 5.74

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,800; Non-Residential Outdoor: 600; Striped Parking Area: 15,002 (Architectural Coating – sqft)

OffRoad Equipment

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Rough Terrain Forklifts	1	8.00	100	0.40
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	106.00	41.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	21.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Summer

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.7955	18.5545	13.0787	0.0210		0.9796	0.9796		0.9012	0.9012		2,030.9525	2,030.9525	0.6569		2,047.3738
Total	1.7955	18.5545	13.0787	0.0210	6.0221	0.9796	7.0016	3.3102	0.9012	4.2114		2,030.9525	2,030.9525	0.6569		2,047.3738

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	0.0616	0.0351	0.4806	1.3900e-003	0.1453	8.6000e-004	0.1462	0.0385	7.9000e-004	0.0393		138.4176	138.4176	3.3000e-003		138.5001
Total	0.0616	0.0351	0.4806	1.3900e-003	0.1453	8.6000e-004	0.1462	0.0385	7.9000e-004	0.0393		138.4176	138.4176	3.3000e-003		138.5001

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Summer

3.2 Site Preparation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	0.5129	10.9803	13.8989	0.0210		0.6395	0.6395		0.6395	0.6395	0.0000	2,030.9525	2,030.9525	0.6569		2,047.3738
Total	0.5129	10.9803	13.8989	0.0210	6.0221	0.6395	6.6616	3.3102	0.6395	3.9497	0.0000	2,030.9525	2,030.9525	0.6569		2,047.3738

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	0.0616	0.0351	0.4806	1.3900e-003	0.1453	8.6000e-004	0.1462	0.0385	7.9000e-004	0.0393		138.4176	138.4176	3.3000e-003		138.5001
Total	0.0616	0.0351	0.4806	1.3900e-003	0.1453	8.6000e-004	0.1462	0.0385	7.9000e-004	0.0393		138.4176	138.4176	3.3000e-003		138.5001

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Summer

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.0612	22.5833	12.5857	0.0245		1.0555	1.0555		0.9710	0.9710		2,371.7365	2,371.7365	0.7671		2,390.9132
Total	2.0612	22.5833	12.5857	0.0245	6.5523	1.0555	7.6078	3.3675	0.9710	4.3385		2,371.7365	2,371.7365	0.7671		2,390.9132

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	0.0616	0.0351	0.4806	1.3900e-003	0.1453	8.6000e-004	0.1462	0.0385	7.9000e-004	0.0393		138.4176	138.4176	3.3000e-003		138.5001
Total	0.0616	0.0351	0.4806	1.3900e-003	0.1453	8.6000e-004	0.1462	0.0385	7.9000e-004	0.0393		138.4176	138.4176	3.3000e-003		138.5001

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Summer

3.3 Grading - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	0.5993	12.3830	15.0726	0.0245		0.6369	0.6369		0.6369	0.6369	0.0000	2,371.7365	2,371.7365	0.7671		2,390.9132
Total	0.5993	12.3830	15.0726	0.0245	6.5523	0.6369	7.1893	3.3675	0.6369	4.0044	0.0000	2,371.7365	2,371.7365	0.7671		2,390.9132

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	0.0616	0.0351	0.4806	1.3900e-003	0.1453	8.6000e-004	0.1462	0.0385	7.9000e-004	0.0393		138.4176	138.4176	3.3000e-003		138.5001
Total	0.0616	0.0351	0.4806	1.3900e-003	0.1453	8.6000e-004	0.1462	0.0385	7.9000e-004	0.0393		138.4176	138.4176	3.3000e-003		138.5001

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Summer

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1116	9.6130	11.6646	0.0180		0.5002	0.5002		0.4796	0.4796		1,692.5256	1,692.5256	0.3376		1,700.9656
Total	1.1116	9.6130	11.6646	0.0180		0.5002	0.5002		0.4796	0.4796		1,692.5256	1,692.5256	0.3376		1,700.9656

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	0.0957	3.7941	0.6769	0.0106	0.2625	7.2200e-003	0.2698	0.0756	6.9000e-003	0.0825		1,120.3292	1,120.3292	0.0802		1,122.3329
Worker	0.5025	0.2863	3.9189	0.0113	1.1848	6.9800e-003	1.1918	0.3142	6.4300e-003	0.3207		1,128.6360	1,128.6360	0.0269		1,129.3088
Total	0.5983	4.0804	4.5959	0.0220	1.4474	0.0142	1.4616	0.3898	0.0133	0.4031		2,248.9652	2,248.9652	0.1071		2,251.6417

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Summer

3.4 Building Construction - 2021

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	0.4554	9.6721	12.2752	0.0180		0.6615	0.6615		0.6615	0.6615	0.0000	1,692.5256	1,692.5256	0.3376		1,700.9656
Total	0.4554	9.6721	12.2752	0.0180		0.6615	0.6615		0.6615	0.6615	0.0000	1,692.5256	1,692.5256	0.3376		1,700.9656

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	0.0957	3.7941	0.6769	0.0106	0.2625	7.2200e-003	0.2698	0.0756	6.9000e-003	0.0825		1,120.3292	1,120.3292	0.0802		1,122.3329
Worker	0.5025	0.2863	3.9189	0.0113	1.1848	6.9800e-003	1.1918	0.3142	6.4300e-003	0.3207		1,128.6360	1,128.6360	0.0269		1,129.3088
Total	0.5983	4.0804	4.5959	0.0220	1.4474	0.0142	1.4616	0.3898	0.0133	0.4031		2,248.9652	2,248.9652	0.1071		2,251.6417

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Summer

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.5013					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.7568	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

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	0.0711	0.0405	0.5546	1.6000e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		159.7126	159.7126	3.8100e-003		159.8078
Total	0.0711	0.0405	0.5546	1.6000e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		159.7126	159.7126	3.8100e-003		159.8078

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Summer

3.5 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.5013					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0622	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

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	0.0711	0.0405	0.5546	1.6000e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		159.7126	159.7126	3.8100e-003		159.8078
Total	0.0711	0.0405	0.5546	1.6000e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		159.7126	159.7126	3.8100e-003		159.8078

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Summer

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.0658					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	8.2847	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

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	0.0996	0.0567	0.7764	2.2400e-003	0.2347	1.3800e-003	0.2361	0.0623	1.2700e-003	0.0635		223.5977	223.5977	5.3300e-003		223.7310
Total	0.0996	0.0567	0.7764	2.2400e-003	0.2347	1.3800e-003	0.2361	0.0623	1.2700e-003	0.0635		223.5977	223.5977	5.3300e-003		223.7310

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Summer

3.6 Architectural Coating - 2021

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	8.0658					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0193		281.9309
Total	8.1253	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0193		281.9309

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	0.0996	0.0567	0.7764	2.2400e-003	0.2347	1.3800e-003	0.2361	0.0623	1.2700e-003	0.0635		223.5977	223.5977	5.3300e-003		223.7310
Total	0.0996	0.0567	0.7764	2.2400e-003	0.2347	1.3800e-003	0.2361	0.0623	1.2700e-003	0.0635		223.5977	223.5977	5.3300e-003		223.7310

4.0 Operational Detail - Mobile

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0170	0.3456	0.1866	1.9600e-003	0.0948	1.4200e-003	0.0962	0.0279	1.3600e-003	0.0292		204.0589	204.0589	1.9400e-003		204.1075
Unmitigated	0.0170	0.3456	0.1866	1.9600e-003	0.0948	1.4200e-003	0.0962	0.0279	1.3600e-003	0.0292		204.0589	204.0589	1.9400e-003		204.1075

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
General Light Industry	8.36	1.58	0.82	27,974	27,974
Total	8.36	1.58	0.82	27,974	27,974

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
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
General Light Industry	0.000000	0.140000	0.000000	0.000000	0.000000	0.140000	0.720000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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	1.1500e-003	0.0105	8.8000e-003	6.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004		12.5666	12.5666	2.4000e-004	2.3000e-004	12.6413
NaturalGas Unmitigated	1.1500e-003	0.0105	8.8000e-003	6.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004		12.5666	12.5666	2.4000e-004	2.3000e-004	12.6413

Alliance Propane Murrieta & RV Storage - Riverside-South Coast 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					
General Light Industry	106.816	1.1500e-003	0.0105	8.8000e-003	6.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004		12.5666	12.5666	2.4000e-004	2.3000e-004	12.6413
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		1.1500e-003	0.0105	8.8000e-003	6.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004		12.5666	12.5666	2.4000e-004	2.3000e-004	12.6413

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	0.106816	1.1500e-003	0.0105	8.8000e-003	6.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004		12.5666	12.5666	2.4000e-004	2.3000e-004	12.6413
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		1.1500e-003	0.0105	8.8000e-003	6.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004		12.5666	12.5666	2.4000e-004	2.3000e-004	12.6413

6.0 Area Detail

6.1 Mitigation Measures Area

Alliance Propane Murrieta & RV Storage - Riverside-South Coast 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	0.1345	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.5200e-003	1.5200e-003	0.0000		1.6200e-003
Unmitigated	0.1345	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.5200e-003	1.5200e-003	0.0000		1.6200e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0221					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1123					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.0000e-005	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.5200e-003	1.5200e-003	0.0000		1.6200e-003
Total	0.1345	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.5200e-003	1.5200e-003	0.0000		1.6200e-003

Alliance Propane Murrieta & RV Storage - Riverside-South Coast 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	0.0221					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1123					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.0000e-005	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.5200e-003	1.5200e-003	0.0000		1.6200e-003
Total	0.1345	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.5200e-003	1.5200e-003	0.0000		1.6200e-003

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Summer

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

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

Equipment Type	Number
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11.0 Vegetation

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Winter

Alliance Propane Murrieta & RV Storage
Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	5.74	Acre	5.74	250,034.40	0
General Light Industry	1.20	1000sqft	1.15	1,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -
 Land Use - 1,200 Customer Office Area
 Construction Phase - Estimated Construction Schedule
 Off-road Equipment - ce
 Off-road Equipment -
 Off-road Equipment - e
 Fleet Mix - Per TS LDT1 is employee Trip, LHD2 is Tender Truck, MHD is Propane Supply Truck
 Construction Off-road Equipment Mitigation - Tier3 or better equipment

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	230.00	45.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	PhaseEndDate	12/27/2021	5/27/2021
tblConstructionPhase	PhaseEndDate	11/1/2021	5/27/2021
tblConstructionPhase	PhaseEndDate	12/14/2020	2/11/2021

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Winter

tblConstructionPhase	PhaseEndDate	11/29/2021	3/25/2021
tblConstructionPhase	PhaseEndDate	11/16/2020	1/14/2021
tblConstructionPhase	PhaseStartDate	11/30/2021	5/14/2021
tblConstructionPhase	PhaseStartDate	12/15/2020	3/26/2021
tblConstructionPhase	PhaseStartDate	11/17/2020	1/15/2021
tblConstructionPhase	PhaseStartDate	11/2/2021	2/12/2021
tblConstructionPhase	PhaseStartDate	11/3/2020	1/1/2021
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.14
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.9700e-003	0.14
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MHD	0.02	0.72
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblLandUse	LotAcreage	0.03	1.15
tblOffRoadEquipment	LoadFactor	0.40	0.40
tblOffRoadEquipment	OffRoadEquipmentType		Rough Terrain Forklifts
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00

2.0 Emissions Summary

Alliance Propane Murrieta & RV Storage - Riverside-South Coast 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	0.1345	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.5200e-003	1.5200e-003	0.0000		1.6200e-003
Energy	1.1500e-003	0.0105	8.8000e-003	6.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004		12.5666	12.5666	2.4000e-004	2.3000e-004	12.6413
Mobile	0.0161	0.3552	0.1833	1.9500e-003	0.0948	1.4300e-003	0.0962	0.0279	1.3600e-003	0.0292		202.6971	202.6971	1.9400e-003		202.7456
Total	0.1518	0.3657	0.1928	2.0100e-003	0.0948	2.2300e-003	0.0970	0.0279	2.1600e-003	0.0300		215.2652	215.2652	2.1800e-003	2.3000e-004	215.3886

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	0.1345	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.5200e-003	1.5200e-003	0.0000		1.6200e-003
Energy	1.1500e-003	0.0105	8.8000e-003	6.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004		12.5666	12.5666	2.4000e-004	2.3000e-004	12.6413
Mobile	0.0161	0.3552	0.1833	1.9500e-003	0.0948	1.4300e-003	0.0962	0.0279	1.3600e-003	0.0292		202.6971	202.6971	1.9400e-003		202.7456
Total	0.1518	0.3657	0.1928	2.0100e-003	0.0948	2.2300e-003	0.0970	0.0279	2.1600e-003	0.0300		215.2652	215.2652	2.1800e-003	2.3000e-004	215.3886

Alliance Propane Murrieta & RV Storage - Riverside-South Coast 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/1/2021	1/14/2021	5	10	
2	Grading	Grading	1/15/2021	2/11/2021	5	20	
3	Building Construction	Building Construction	3/26/2021	5/27/2021	5	45	
4	Paving	Paving	2/12/2021	3/25/2021	5	30	
5	Architectural Coating	Architectural Coating	5/14/2021	5/27/2021	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 5.74

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,800; Non-Residential Outdoor: 600; Striped Parking Area: 15,002 (Architectural Coating – sqft)

OffRoad Equipment

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Rough Terrain Forklifts	1	8.00	100	0.40
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	5	13.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	106.00	41.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	21.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Winter

3.2 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	1.7955	18.5545	13.0787	0.0210		0.9796	0.9796		0.9012	0.9012		2,030.9525	2,030.9525	0.6569		2,047.3738
Total	1.7955	18.5545	13.0787	0.0210	6.0221	0.9796	7.0016	3.3102	0.9012	4.2114		2,030.9525	2,030.9525	0.6569		2,047.3738

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	0.0605	0.0363	0.3880	1.2500e-003	0.1453	8.6000e-004	0.1462	0.0385	7.9000e-004	0.0393		124.1752	124.1752	2.8700e-003		124.2469
Total	0.0605	0.0363	0.3880	1.2500e-003	0.1453	8.6000e-004	0.1462	0.0385	7.9000e-004	0.0393		124.1752	124.1752	2.8700e-003		124.2469

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Winter

3.2 Site Preparation - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	0.5129	10.9803	13.8989	0.0210		0.6395	0.6395		0.6395	0.6395	0.0000	2,030.9525	2,030.9525	0.6569		2,047.3738
Total	0.5129	10.9803	13.8989	0.0210	6.0221	0.6395	6.6616	3.3102	0.6395	3.9497	0.0000	2,030.9525	2,030.9525	0.6569		2,047.3738

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	0.0605	0.0363	0.3880	1.2500e-003	0.1453	8.6000e-004	0.1462	0.0385	7.9000e-004	0.0393		124.1752	124.1752	2.8700e-003		124.2469
Total	0.0605	0.0363	0.3880	1.2500e-003	0.1453	8.6000e-004	0.1462	0.0385	7.9000e-004	0.0393		124.1752	124.1752	2.8700e-003		124.2469

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Winter

3.3 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	2.0612	22.5833	12.5857	0.0245		1.0555	1.0555		0.9710	0.9710		2,371.7365	2,371.7365	0.7671		2,390.9132
Total	2.0612	22.5833	12.5857	0.0245	6.5523	1.0555	7.6078	3.3675	0.9710	4.3385		2,371.7365	2,371.7365	0.7671		2,390.9132

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	0.0605	0.0363	0.3880	1.2500e-003	0.1453	8.6000e-004	0.1462	0.0385	7.9000e-004	0.0393		124.1752	124.1752	2.8700e-003		124.2469
Total	0.0605	0.0363	0.3880	1.2500e-003	0.1453	8.6000e-004	0.1462	0.0385	7.9000e-004	0.0393		124.1752	124.1752	2.8700e-003		124.2469

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Winter

3.3 Grading - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5523	0.0000	6.5523	3.3675	0.0000	3.3675			0.0000			0.0000
Off-Road	0.5993	12.3830	15.0726	0.0245		0.6369	0.6369		0.6369	0.6369	0.0000	2,371.7365	2,371.7365	0.7671		2,390.9132
Total	0.5993	12.3830	15.0726	0.0245	6.5523	0.6369	7.1893	3.3675	0.6369	4.0044	0.0000	2,371.7365	2,371.7365	0.7671		2,390.9132

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	0.0605	0.0363	0.3880	1.2500e-003	0.1453	8.6000e-004	0.1462	0.0385	7.9000e-004	0.0393		124.1752	124.1752	2.8700e-003		124.2469
Total	0.0605	0.0363	0.3880	1.2500e-003	0.1453	8.6000e-004	0.1462	0.0385	7.9000e-004	0.0393		124.1752	124.1752	2.8700e-003		124.2469

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Winter

3.4 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1116	9.6130	11.6646	0.0180		0.5002	0.5002		0.4796	0.4796		1,692.5256	1,692.5256	0.3376		1,700.9656
Total	1.1116	9.6130	11.6646	0.0180		0.5002	0.5002		0.4796	0.4796		1,692.5256	1,692.5256	0.3376		1,700.9656

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	0.1017	3.7614	0.8008	0.0102	0.2625	7.4300e-003	0.2700	0.0756	7.1100e-003	0.0827		1,078.1902	1,078.1902	0.0893		1,080.4228
Worker	0.4932	0.2961	3.1634	0.0102	1.1848	6.9800e-003	1.1918	0.3142	6.4300e-003	0.3207		1,012.5052	1,012.5052	0.0234		1,013.0901
Total	0.5948	4.0575	3.9641	0.0204	1.4474	0.0144	1.4618	0.3898	0.0135	0.4034		2,090.6954	2,090.6954	0.1127		2,093.5129

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Winter

3.4 Building Construction - 2021

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	0.4554	9.6721	12.2752	0.0180		0.6615	0.6615		0.6615	0.6615	0.0000	1,692.5256	1,692.5256	0.3376		1,700.9656
Total	0.4554	9.6721	12.2752	0.0180		0.6615	0.6615		0.6615	0.6615	0.0000	1,692.5256	1,692.5256	0.3376		1,700.9656

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	0.1017	3.7614	0.8008	0.0102	0.2625	7.4300e-003	0.2700	0.0756	7.1100e-003	0.0827		1,078.1902	1,078.1902	0.0893		1,080.4228
Worker	0.4932	0.2961	3.1634	0.0102	1.1848	6.9800e-003	1.1918	0.3142	6.4300e-003	0.3207		1,012.5052	1,012.5052	0.0234		1,013.0901
Total	0.5948	4.0575	3.9641	0.0204	1.4474	0.0144	1.4618	0.3898	0.0135	0.4034		2,090.6954	2,090.6954	0.1127		2,093.5129

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Winter

3.5 Paving - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2556	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.5013					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.7568	12.9191	14.6532	0.0228		0.6777	0.6777		0.6235	0.6235		2,207.2109	2,207.2109	0.7139		2,225.0573

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	0.0698	0.0419	0.4476	1.4400e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		143.2790	143.2790	3.3100e-003		143.3618
Total	0.0698	0.0419	0.4476	1.4400e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		143.2790	143.2790	3.3100e-003		143.3618

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Winter

3.5 Paving - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573
Paving	0.5013					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0622	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.2109	2,207.2109	0.7139		2,225.0573

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	0.0698	0.0419	0.4476	1.4400e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		143.2790	143.2790	3.3100e-003		143.3618
Total	0.0698	0.0419	0.4476	1.4400e-003	0.1677	9.9000e-004	0.1687	0.0445	9.1000e-004	0.0454		143.2790	143.2790	3.3100e-003		143.3618

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Winter

3.6 Architectural Coating - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.0658					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
Total	8.2847	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309

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	0.0977	0.0587	0.6267	2.0100e-003	0.2347	1.3800e-003	0.2361	0.0623	1.2700e-003	0.0635		200.5907	200.5907	4.6400e-003		200.7065
Total	0.0977	0.0587	0.6267	2.0100e-003	0.2347	1.3800e-003	0.2361	0.0623	1.2700e-003	0.0635		200.5907	200.5907	4.6400e-003		200.7065

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Winter

3.6 Architectural Coating - 2021

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	8.0658					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0193		281.9309
Total	8.1253	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0193		281.9309

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	0.0977	0.0587	0.6267	2.0100e-003	0.2347	1.3800e-003	0.2361	0.0623	1.2700e-003	0.0635		200.5907	200.5907	4.6400e-003		200.7065
Total	0.0977	0.0587	0.6267	2.0100e-003	0.2347	1.3800e-003	0.2361	0.0623	1.2700e-003	0.0635		200.5907	200.5907	4.6400e-003		200.7065

4.0 Operational Detail - Mobile

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0161	0.3552	0.1833	1.9500e-003	0.0948	1.4300e-003	0.0962	0.0279	1.3600e-003	0.0292		202.6971	202.6971	1.9400e-003		202.7456
Unmitigated	0.0161	0.3552	0.1833	1.9500e-003	0.0948	1.4300e-003	0.0962	0.0279	1.3600e-003	0.0292		202.6971	202.6971	1.9400e-003		202.7456

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
General Light Industry	8.36	1.58	0.82	27,974	27,974
Total	8.36	1.58	0.82	27,974	27,974

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
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
General Light Industry	0.000000	0.140000	0.000000	0.000000	0.000000	0.140000	0.720000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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	1.1500e-003	0.0105	8.8000e-003	6.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004		12.5666	12.5666	2.4000e-004	2.3000e-004	12.6413
NaturalGas Unmitigated	1.1500e-003	0.0105	8.8000e-003	6.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004		12.5666	12.5666	2.4000e-004	2.3000e-004	12.6413

Alliance Propane Murrieta & RV Storage - Riverside-South Coast 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					
General Light Industry	106.816	1.1500e-003	0.0105	8.8000e-003	6.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004		12.5666	12.5666	2.4000e-004	2.3000e-004	12.6413
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		1.1500e-003	0.0105	8.8000e-003	6.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004		12.5666	12.5666	2.4000e-004	2.3000e-004	12.6413

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Light Industry	0.106816	1.1500e-003	0.0105	8.8000e-003	6.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004		12.5666	12.5666	2.4000e-004	2.3000e-004	12.6413
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		1.1500e-003	0.0105	8.8000e-003	6.0000e-005		8.0000e-004	8.0000e-004		8.0000e-004	8.0000e-004		12.5666	12.5666	2.4000e-004	2.3000e-004	12.6413

6.0 Area Detail

6.1 Mitigation Measures Area

Alliance Propane Murrieta & RV Storage - Riverside-South Coast 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	0.1345	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.5200e-003	1.5200e-003	0.0000		1.6200e-003
Unmitigated	0.1345	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.5200e-003	1.5200e-003	0.0000		1.6200e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0221					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1123					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.0000e-005	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.5200e-003	1.5200e-003	0.0000		1.6200e-003
Total	0.1345	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.5200e-003	1.5200e-003	0.0000		1.6200e-003

Alliance Propane Murrieta & RV Storage - Riverside-South Coast 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	0.0221					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1123					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	7.0000e-005	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.5200e-003	1.5200e-003	0.0000		1.6200e-003
Total	0.1345	1.0000e-005	7.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.5200e-003	1.5200e-003	0.0000		1.6200e-003

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

Alliance Propane Murrieta & RV Storage - Riverside-South Coast County, Winter

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

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

Equipment Type	Number
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11.0 Vegetation
