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January 31, 2023

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1285 Corona Pointe Court Suite 102
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RE: Terrano II Multi-Family Development at Dos Lagos Air Quality – City of Corona

The purpose of this air quality screening letter is to identify air quality impacts, if any, which may be created from the construction and operation of the proposed 50-unit Apartment complex on a 2.96 acre project site within Planning Area 1 of the Dos Lagos Specific Plan. The site is located on the west of Temescal Canyon Road and north of Dos Lagos Drive in the City of Corona.

Planning Area 1 of the Dos Lagos Specific Plan was entitled in 2018 and included a 276-unit apartment complex, a 107 room hotel, 6,100 square-feet (SF) of commercial uses, 10,300 SF of restaurant uses (4,000 SF quality restaurant use and 6,300 SF high-turnover sit-down restaurant use), and a 20-fueling position gas station with convenience store and car wash, of which the apartment complex, hotel, and gas station are completed and opened.

The proposed Project consists of replacing the entitled retail and restaurant uses with 50 multifamily (low-rise) apartment dwelling units within eight (8) buildings. In addition, the Project would not install fireplaces or hearths of any type. Access for the proposed apartments will be provided via the existing internal circulation system and no new public access driveway are proposed. This project is the last development piece to Planning Area 1 of the Dos Lagos Specific Plan.

Construction within Dos Lagos Planning Area 1 is generally completed with the exception of this remaining lot. Construction would start early 2024 and be completed less than one year later.

Once construction is completed the proposed project would generate operational air quality emissions. These operational emissions would originate from daily vehicle operations, use of consumer products, and from landscaping equipment.

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Air quality impacts related to construction and daily operations were calculated using the latest CalEEMod 2020.4.0 air quality and GHG model, which was developed by Breeze Software for South Coast Air Quality Management District (SCAQMD). The City of Corona recognizes the CalEEMod Version 2020.4.0 as an acceptable model for projects of this nature. The Air Quality modeling is proved as **Attachment A** to this report.

Regional Air Quality Significance Thresholds

Regional Air quality screening criteria for the City of Corona utilize South Coast Air Quality Management District’s (SQAQMD) Air Quality Thresholds. The screening thresholds for construction and daily operations are shown in Table 1.

Table 1: City of Corona Regional Air Quality Significance Thresholds

Pollutant	Total Emissions (Pounds per Day)
Construction Emissions	
Respirable Particulate Matter (PM ₁₀ / PM _{2.5})	150 / 55
Nitrogen Oxide (NO _x)	100
Sulfur Oxide (SO _x)	150
Carbon Monoxide (CO)	550
Reactive Organic Gases (ROG) SCAQMD	75
Operational Emissions	
Pollutant	Total Emissions (Pounds per Day)
Respirable Particulate Matter (PM ₁₀ / PM _{2.5})	150 / 55
Nitrogen Oxide (NO _x)	55
Sulfur Oxide (SO _x)	150
Carbon Monoxide (CO)	550
Reactive Organic Gases (ROG) SCAQMD	55

Localized Significance Thresholds

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

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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 #22 within the City of Corona. The Project was analyzed using a worst-case construction schedule using the appropriate equipment and quantities for this scenario. The Project site would not actively disturb more than 2 acres at any given time. Table 2 shows the worst-case Project LST at 25 meters (SCAQMD, 2009).

Table 2: LST Emission Thresholds

Pollutant	LST @ 25 meters (lb/day)
CO (Corrected utilizing NO ₂ /NO _x Ratio) Construction and Operation	1,007
PM ₁₀ (Construction)	6
PM ₁₀ (Operation)	2
PM _{2.5} (Construction)	5
PM _{2.5} (Operation)	2
NO ₂ (Corrected utilizing NO ₂ /NO _x Ratio) Construction and Operation	170

Project Related Construction Emissions

Construction of the project would begin shortly after the approval of the Proposed Project subdivision. Mass grading of the lot has been previously completed as part of the master plan so all grading necessary will be minimal and would mainly consist of footing preparations and finish grading, paving and architectural coating. This analysis assumes construction begins in 2024 and would be completed in less than one year. CalEEMod default settings were used which are based on the project site size and number of units proposed. These inputs would be conservative since limited grading is required. The proposed construction schedule and construction equipment list is identified in Table 3.

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Table 3: Proposed Construction Phase and Duration

Equipment Identification	Proposed Start	Proposed Completion	Quantity
Site Preparation	1/1/2024	1/3/2024	
Graders			1
Tractors/Loaders/Backhoes			1
Grading	1/4/2024	1/11/2024	
Graders			1
Rollers			1
Tractors/Loaders/Backhoes			2
Building Construction	1/12/2024	11/14/2024	
Cranes			1
Forklifts			2
Generator Sets			1
Tractors/Loaders/Backhoes			1
Welders			3
Paving	11/15/2024	11/28/2024	
Pavers			1
Paving Equipment			1
Rollers			2
Architectural Coating	11/15/2024	11/28/2024	
Air Compressors			1
This equipment list is based upon equipment inventory and estimates within CalEEMod using default settings.			

Based on the modeling within CalEEMod, the construction emissions, which are reported in lbs/day, are shown in Table 4. Based on these findings, the project construction activities would have a less than significant regional air quality impacts and a less than significant localized impacts.

Table 4: 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)
2024 (lb/day)	32.91	13.21	15.77	0.03	0.64	0.54	1.10	0.15	0.52	0.67
Significance Threshold (lb/day)	75	100	550	150	-	-	150	-	-	55
Localized Significance Threshold		170	1,007				6			5
SCAQMD/LST Impact?	No	No	No	No	-	-	No	-	-	No
Expected Construction emissions are based upon CalEEMod modeling assumptions for equipment and durations listed in Table 2 above. CalEEMod Daily Summer and Winter output is attached to this letter.										

Project Related Operational Emissions

As previously discussed, operational emissions from Area, Energy, Mobile sources are also calculated within CalEEMod. The program is largely based on default settings which are automatically populated throughout the model based on the imputed land use. Southern California Edison averages for utility emissions were utilized for the calculations throughout the model. The model assumes that residential units includes a mix of various hearth options. Since the Project would not install hearth options, all hearths were removed from the model.

Traffic Generation was estimated to be 337 average daily trips (LL&G, 2023) and was utilized within CalEEMod. The calculated operational emissions are identified in Table 5 below. In addition, Table 4 include regional SCAQMD significance thresholds and LSTs.

CalEEMod utilized the proposed land use and then estimates worst-case air quality emissions from trip generations built into the model and include vehicle emission rates from EMFAC. The EMFAC model is built into the CalEEMod software. Estimates are provided for both the Summer and Winter operational months.

Based on the findings of the Air Quality modeling in CalEEMod daily operational activities would generate less than significant LST impact and would also generate less than significant regional air quality impacts.

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Table 5: Expected Daily Operational Air Quality Emissions

	ROG	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Summer Scenario						
Onsite Operational Emissions (Lb/Day)	1.21	0.05	4.13	0	0.02	0.02
Onsite Energy Source Emissions (Lb/Day)	0.02	0.19	0.08	0	0.02	0.02
Total Onsite Emissions Only (Lb/Day)	1.23	0.24	4.21	0	0.04	0.04
Localized Significance Threshold		170	1,007		2	2
LST Impact?	No	No	No	No	No	No
Offsite Operational Vehicle Emissions (Lb/Day)	1.01	1.29	9.85	0.02	2.45	0.67
Total Emissions (Lb/Day)	2.24	1.53	14.06	0.02	2.49	0.71
SCAQMD Thresholds	55	55	550	150	150	55
SCAQMD Impact?	No	No	No	No	No	No
Winter Scenario						
Onsite Operational Emissions (Lb/Day)	1.21	0.05	4.13	0	0.02	0.02
Onsite Energy Source Emissions (Lb/Day)	0.02	0.19	0.08	0	0.02	0.02
Total Onsite Emissions Only (Lb/Day)	1.23	0.24	4.21	0	0.04	0.04
Localized Significance Threshold		170	1,007		2	2
LST Impact?	No	No	No	No	No	No
Offsite Operational Vehicle Emissions (Lb/Day)	0.86	1.37	8.72	0.02	2.45	0.67
Total Emissions (Lb/Day)	2.09	1.61	12.93	0.02	2.49	0.71
SCAQMD Thresholds	55	55	550	150	150	55
SCAQMD Impact?	No	No	No	No	No	No
Daily pollutant generation assumes trip distances and defaults within CalEEMod						

Based on these findings, no impacts are anticipated and no further analysis is required. If you have any questions, please do not hesitate to contact me directly at (760) 473-1253.

Sincerely,
 Ldn Consulting, Inc.

Jeremy Loudon

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Attachment A: CalEEMod Model Results

References:

- LL&G. (2023). *Traffic Circuation Assessment for the Proposed Terrano II Apartments at Dos Lagos.*
- 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>

Terrano II Apartments - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Terrano II Apartments
Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	50.00	Dwelling Unit	2.47	50,000.00	143
Parking Lot	55.00	Space	0.49	22,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - 2.96 acres
- Construction Phase -
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment -
- Grading -
- Vehicle Trips - per TS
- Construction Off-road Equipment Mitigation -

Terrano II Apartments - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Woodstoves - No hearth options will be provided

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	PhaseEndDate	12/12/2024	11/28/2024
tblConstructionPhase	PhaseStartDate	11/29/2024	11/15/2024
tblFireplaces	NumberGas	42.50	0.00
tblFireplaces	NumberNoFireplace	5.00	50.00
tblFireplaces	NumberWood	2.50	0.00
tblLandUse	LotAcreage	3.13	2.47
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblVehicleTrips	ST_TR	8.14	6.74
tblVehicleTrips	SU_TR	6.28	6.74
tblVehicleTrips	WD_TR	7.32	6.74
tblWoodstoves	NumberCatalytic	2.50	0.00
tblWoodstoves	NumberNoncatalytic	2.50	0.00

2.0 Emissions Summary

Terrano II Apartments - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.2094	0.0475	4.1268	2.2000e-004		0.0229	0.0229		0.0229	0.0229	0.0000	7.4397	7.4397	7.1400e-003	0.0000	7.6183
Energy	0.0224	0.1910	0.0813	1.2200e-003		0.0154	0.0154		0.0154	0.0154		243.7697	243.7697	4.6700e-003	4.4700e-003	245.2183
Mobile	1.0055	1.2879	9.8477	0.0231	2.4328	0.0176	2.4503	0.6490	0.0165	0.6654		2,408.4236	2,408.4236	0.1110	0.1069	2,443.0408
Total	2.2373	1.5264	14.0557	0.0245	2.4328	0.0559	2.4887	0.6490	0.0548	0.7038	0.0000	2,659.6330	2,659.6330	0.1228	0.1113	2,695.8773

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.2094	0.0475	4.1268	2.2000e-004		0.0229	0.0229		0.0229	0.0229	0.0000	7.4397	7.4397	7.1400e-003	0.0000	7.6183
Energy	0.0224	0.1910	0.0813	1.2200e-003		0.0154	0.0154		0.0154	0.0154		243.7697	243.7697	4.6700e-003	4.4700e-003	245.2183
Mobile	1.0055	1.2879	9.8477	0.0231	2.4328	0.0176	2.4503	0.6490	0.0165	0.6654		2,408.4236	2,408.4236	0.1110	0.1069	2,443.0408
Total	2.2373	1.5264	14.0557	0.0245	2.4328	0.0559	2.4887	0.6490	0.0548	0.7038	0.0000	2,659.6330	2,659.6330	0.1228	0.1113	2,695.8773

Terrano II Apartments - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	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	1/1/2024	1/3/2024	5	3	
2	Grading	Grading	1/4/2024	1/11/2024	5	6	
3	Building Construction	Building Construction	1/12/2024	11/14/2024	5	220	
4	Paving	Paving	11/15/2024	11/28/2024	5	10	
5	Architectural Coating	Architectural Coating	11/15/2024	11/28/2024	5	10	

Acres of Grading (Site Preparation Phase): 1.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0.49

Residential Indoor: 101,250; Residential Outdoor: 33,750; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,320 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Rollers	1	7.00	80	0.38
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41

Terrano II Apartments - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
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
Architectural Coating	1	9.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	45.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Terrano II Apartments - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.4805	5.4229	3.6126	9.3400e-003		0.1929	0.1929		0.1775	0.1775		904.5534	904.5534	0.2926		911.8671
Total	0.4805	5.4229	3.6126	9.3400e-003	0.5303	0.1929	0.7232	0.0573	0.1775	0.2347		904.5534	904.5534	0.2926		911.8671

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	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
Worker	0.0170	0.0101	0.1718	4.8000e-004	0.0559	2.5000e-004	0.0561	0.0148	2.3000e-004	0.0151		49.0963	49.0963	1.0400e-003	1.0900e-003	49.4470
Total	0.0170	0.0101	0.1718	4.8000e-004	0.0559	2.5000e-004	0.0561	0.0148	2.3000e-004	0.0151		49.0963	49.0963	1.0400e-003	1.0900e-003	49.4470

Terrano II Apartments - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	0.4805	5.4229	3.6126	9.3400e-003		0.1929	0.1929		0.1775	0.1775	0.0000	904.5534	904.5534	0.2926		911.8671
Total	0.4805	5.4229	3.6126	9.3400e-003	0.2386	0.1929	0.4315	0.0258	0.1775	0.2033	0.0000	904.5534	904.5534	0.2926		911.8671

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	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
Worker	0.0170	0.0101	0.1718	4.8000e-004	0.0559	2.5000e-004	0.0561	0.0148	2.3000e-004	0.0151		49.0963	49.0963	1.0400e-003	1.0900e-003	49.4470
Total	0.0170	0.0101	0.1718	4.8000e-004	0.0559	2.5000e-004	0.0561	0.0148	2.3000e-004	0.0151		49.0963	49.0963	1.0400e-003	1.0900e-003	49.4470

Terrano II Apartments - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.7324	8.0071	7.1671	0.0143		0.3208	0.3208		0.2951	0.2951		1,388.1678	1,388.1678	0.4490		1,399.3918
Total	0.7324	8.0071	7.1671	0.0143	0.5303	0.3208	0.8510	0.0573	0.2951	0.3524		1,388.1678	1,388.1678	0.4490		1,399.3918

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	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
Worker	0.0341	0.0201	0.3435	9.5000e-004	0.1118	5.0000e-004	0.1123	0.0296	4.6000e-004	0.0301		98.1926	98.1926	2.0800e-003	2.1800e-003	98.8941
Total	0.0341	0.0201	0.3435	9.5000e-004	0.1118	5.0000e-004	0.1123	0.0296	4.6000e-004	0.0301		98.1926	98.1926	2.0800e-003	2.1800e-003	98.8941

Terrano II Apartments - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	0.7324	8.0071	7.1671	0.0143		0.3208	0.3208		0.2951	0.2951	0.0000	1,388.1678	1,388.1678	0.4490		1,399.3918
Total	0.7324	8.0071	7.1671	0.0143	0.2386	0.3208	0.5594	0.0258	0.2951	0.3209	0.0000	1,388.1678	1,388.1678	0.4490		1,399.3918

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	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
Worker	0.0341	0.0201	0.3435	9.5000e-004	0.1118	5.0000e-004	0.1123	0.0296	4.6000e-004	0.0301		98.1926	98.1926	2.0800e-003	2.1800e-003	98.8941
Total	0.0341	0.0201	0.3435	9.5000e-004	0.1118	5.0000e-004	0.1123	0.0296	4.6000e-004	0.0301		98.1926	98.1926	2.0800e-003	2.1800e-003	98.8941

Terrano II Apartments - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2024

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	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153		2,289.654 1	2,289.654 1	0.4265		2,300.315 4
Total	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153		2,289.654 1	2,289.654 1	0.4265		2,300.315 4

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	0.0000
Vendor	9.9900e-003	0.2941	0.1197	1.5500e-003	0.0576	2.5400e-003	0.0602	0.0166	2.4300e-003	0.0190		164.1740	164.1740	1.7600e-003	0.0242	171.4366
Worker	0.1533	0.0905	1.5458	4.2800e-003	0.5030	2.2600e-003	0.5053	0.1334	2.0800e-003	0.1355		441.8665	441.8665	9.3600e-003	9.8100e-003	445.0234
Total	0.1633	0.3846	1.6655	5.8300e-003	0.5606	4.8000e-003	0.5654	0.1500	4.5100e-003	0.1545		606.0405	606.0405	0.0111	0.0340	616.4600

Terrano II Apartments - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2024

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	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153	0.0000	2,289.654 1	2,289.654 1	0.4265		2,300.315 4
Total	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153	0.0000	2,289.654 1	2,289.654 1	0.4265		2,300.315 4

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	0.0000
Vendor	9.9900e-003	0.2941	0.1197	1.5500e-003	0.0576	2.5400e-003	0.0602	0.0166	2.4300e-003	0.0190		164.1740	164.1740	1.7600e-003	0.0242	171.4366
Worker	0.1533	0.0905	1.5458	4.2800e-003	0.5030	2.2600e-003	0.5053	0.1334	2.0800e-003	0.1355		441.8665	441.8665	9.3600e-003	9.8100e-003	445.0234
Total	0.1633	0.3846	1.6655	5.8300e-003	0.5606	4.8000e-003	0.5654	0.1500	4.5100e-003	0.1545		606.0405	606.0405	0.0111	0.0340	616.4600

Terrano II Apartments - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2024

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	0.6398	6.2866	9.1629	0.0140		0.3149	0.3149		0.2897	0.2897		1,357.9193	1,357.9193	0.4392		1,368.8988
Paving	0.1284					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7682	6.2866	9.1629	0.0140		0.3149	0.3149		0.2897	0.2897		1,357.9193	1,357.9193	0.4392		1,368.8988

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	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
Worker	0.0341	0.0201	0.3435	9.5000e-004	0.1118	5.0000e-004	0.1123	0.0296	4.6000e-004	0.0301		98.1926	98.1926	2.0800e-003	2.1800e-003	98.8941
Total	0.0341	0.0201	0.3435	9.5000e-004	0.1118	5.0000e-004	0.1123	0.0296	4.6000e-004	0.0301		98.1926	98.1926	2.0800e-003	2.1800e-003	98.8941

Terrano II Apartments - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2024

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	0.6398	6.2866	9.1629	0.0140		0.3149	0.3149		0.2897	0.2897	0.0000	1,357.9193	1,357.9193	0.4392		1,368.8988
Paving	0.1284					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7682	6.2866	9.1629	0.0140		0.3149	0.3149		0.2897	0.2897	0.0000	1,357.9193	1,357.9193	0.4392		1,368.8988

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	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
Worker	0.0341	0.0201	0.3435	9.5000e-004	0.1118	5.0000e-004	0.1123	0.0296	4.6000e-004	0.0301		98.1926	98.1926	2.0800e-003	2.1800e-003	98.8941
Total	0.0341	0.0201	0.3435	9.5000e-004	0.1118	5.0000e-004	0.1123	0.0296	4.6000e-004	0.0301		98.1926	98.1926	2.0800e-003	2.1800e-003	98.8941

Terrano II Apartments - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2024

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	31.8981					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	32.0788	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

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	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
Worker	0.0307	0.0181	0.3092	8.6000e-004	0.1006	4.5000e-004	0.1011	0.0267	4.2000e-004	0.0271		88.3733	88.3733	1.8700e-003	1.9600e-003	89.0047
Total	0.0307	0.0181	0.3092	8.6000e-004	0.1006	4.5000e-004	0.1011	0.0267	4.2000e-004	0.0271		88.3733	88.3733	1.8700e-003	1.9600e-003	89.0047

Terrano II Apartments - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2024

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	31.8981					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	32.0788	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

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	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
Worker	0.0307	0.0181	0.3092	8.6000e-004	0.1006	4.5000e-004	0.1011	0.0267	4.2000e-004	0.0271		88.3733	88.3733	1.8700e-003	1.9600e-003	89.0047
Total	0.0307	0.0181	0.3092	8.6000e-004	0.1006	4.5000e-004	0.1011	0.0267	4.2000e-004	0.0271		88.3733	88.3733	1.8700e-003	1.9600e-003	89.0047

Terrano II Apartments - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.0055	1.2879	9.8477	0.0231	2.4328	0.0176	2.4503	0.6490	0.0165	0.6654		2,408.4236	2,408.4236	0.1110	0.1069	2,443.0408
Unmitigated	1.0055	1.2879	9.8477	0.0231	2.4328	0.0176	2.4503	0.6490	0.0165	0.6654		2,408.4236	2,408.4236	0.1110	0.1069	2,443.0408

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	337.00	337.00	337.00	1,151,580	1,151,580
Parking Lot	0.00	0.00	0.00		
Total	337.00	337.00	337.00	1,151,580	1,151,580

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
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Terrano II Apartments - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.540541	0.056458	0.173793	0.136090	0.025268	0.007074	0.011525	0.018705	0.000610	0.000304	0.023606	0.001094	0.004932
Parking Lot	0.540541	0.056458	0.173793	0.136090	0.025268	0.007074	0.011525	0.018705	0.000610	0.000304	0.023606	0.001094	0.004932

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0224	0.1910	0.0813	1.2200e-003		0.0154	0.0154		0.0154	0.0154		243.7697	243.7697	4.6700e-003	4.4700e-003	245.2183
NaturalGas Unmitigated	0.0224	0.1910	0.0813	1.2200e-003		0.0154	0.0154		0.0154	0.0154		243.7697	243.7697	4.6700e-003	4.4700e-003	245.2183

Terrano II Apartments - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					
Apartments Low Rise	2072.04	0.0224	0.1910	0.0813	1.2200e-003		0.0154	0.0154		0.0154	0.0154		243.7697	243.7697	4.6700e-003	4.4700e-003	245.2183
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		0.0224	0.1910	0.0813	1.2200e-003		0.0154	0.0154		0.0154	0.0154		243.7697	243.7697	4.6700e-003	4.4700e-003	245.2183

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					
Apartments Low Rise	2.07204	0.0224	0.1910	0.0813	1.2200e-003		0.0154	0.0154		0.0154	0.0154		243.7697	243.7697	4.6700e-003	4.4700e-003	245.2183
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		0.0224	0.1910	0.0813	1.2200e-003		0.0154	0.0154		0.0154	0.0154		243.7697	243.7697	4.6700e-003	4.4700e-003	245.2183

6.0 Area Detail

Terrano II Apartments - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2094	0.0475	4.1268	2.2000e-004		0.0229	0.0229		0.0229	0.0229	0.0000	7.4397	7.4397	7.1400e-003	0.0000	7.6183
Unmitigated	1.2094	0.0475	4.1268	2.2000e-004		0.0229	0.0229		0.0229	0.0229	0.0000	7.4397	7.4397	7.1400e-003	0.0000	7.6183

Terrano II Apartments - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0874					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9978					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1243	0.0475	4.1268	2.2000e-004		0.0229	0.0229		0.0229	0.0229		7.4397	7.4397	7.1400e-003		7.6183
Total	1.2094	0.0475	4.1268	2.2000e-004		0.0229	0.0229		0.0229	0.0229	0.0000	7.4397	7.4397	7.1400e-003	0.0000	7.6183

Terrano II Apartments - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0874					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9978					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1243	0.0475	4.1268	2.2000e-004		0.0229	0.0229		0.0229	0.0229		7.4397	7.4397	7.1400e-003		7.6183
Total	1.2094	0.0475	4.1268	2.2000e-004		0.0229	0.0229		0.0229	0.0229	0.0000	7.4397	7.4397	7.1400e-003	0.0000	7.6183

7.0 Water Detail

7.1 Mitigation Measures Water

Terrano II Apartments - Riverside-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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

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

Terrano II Apartments - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Terrano II Apartments
Riverside-South Coast County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	50.00	Dwelling Unit	2.47	50,000.00	143
Parking Lot	55.00	Space	0.49	22,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.4	Precipitation Freq (Days)	28
Climate Zone	10			Operational Year	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - 2.96 acres
- Construction Phase -
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment -
- Off-road Equipment -
- Grading -
- Vehicle Trips - per TS
- Construction Off-road Equipment Mitigation -

Terrano II Apartments - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Woodstoves - No hearth options will be provided

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	PhaseEndDate	12/12/2024	11/28/2024
tblConstructionPhase	PhaseStartDate	11/29/2024	11/15/2024
tblFireplaces	NumberGas	42.50	0.00
tblFireplaces	NumberNoFireplace	5.00	50.00
tblFireplaces	NumberWood	2.50	0.00
tblLandUse	LotAcreage	3.13	2.47
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblVehicleTrips	ST_TR	8.14	6.74
tblVehicleTrips	SU_TR	6.28	6.74
tblVehicleTrips	WD_TR	7.32	6.74
tblWoodstoves	NumberCatalytic	2.50	0.00
tblWoodstoves	NumberNoncatalytic	2.50	0.00

2.0 Emissions Summary

Terrano II Apartments - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.2094	0.0475	4.1268	2.2000e-004		0.0229	0.0229		0.0229	0.0229	0.0000	7.4397	7.4397	7.1400e-003	0.0000	7.6183
Energy	0.0224	0.1910	0.0813	1.2200e-003		0.0154	0.0154		0.0154	0.0154		243.7697	243.7697	4.6700e-003	4.4700e-003	245.2183
Mobile	0.8562	1.3671	8.7151	0.0214	2.4328	0.0176	2.4504	0.6490	0.0165	0.6654		2,236.4214	2,236.4214	0.1134	0.1091	2,271.7632
Total	2.0880	1.6056	12.9231	0.0229	2.4328	0.0559	2.4887	0.6490	0.0548	0.7038	0.0000	2,487.6308	2,487.6308	0.1252	0.1136	2,524.5997

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.2094	0.0475	4.1268	2.2000e-004		0.0229	0.0229		0.0229	0.0229	0.0000	7.4397	7.4397	7.1400e-003	0.0000	7.6183
Energy	0.0224	0.1910	0.0813	1.2200e-003		0.0154	0.0154		0.0154	0.0154		243.7697	243.7697	4.6700e-003	4.4700e-003	245.2183
Mobile	0.8562	1.3671	8.7151	0.0214	2.4328	0.0176	2.4504	0.6490	0.0165	0.6654		2,236.4214	2,236.4214	0.1134	0.1091	2,271.7632
Total	2.0880	1.6056	12.9231	0.0229	2.4328	0.0559	2.4887	0.6490	0.0548	0.7038	0.0000	2,487.6308	2,487.6308	0.1252	0.1136	2,524.5997

Terrano II Apartments - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	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	1/1/2024	1/3/2024	5	3	
2	Grading	Grading	1/4/2024	1/11/2024	5	6	
3	Building Construction	Building Construction	1/12/2024	11/14/2024	5	220	
4	Paving	Paving	11/15/2024	11/28/2024	5	10	
5	Architectural Coating	Architectural Coating	11/15/2024	11/28/2024	5	10	

Acres of Grading (Site Preparation Phase): 1.5

Acres of Grading (Grading Phase): 3

Acres of Paving: 0.49

Residential Indoor: 101,250; Residential Outdoor: 33,750; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 1,320 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Rollers	1	7.00	80	0.38
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41

Terrano II Apartments - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
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
Architectural Coating	1	9.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	45.00	9.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Terrano II Apartments - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.4805	5.4229	3.6126	9.3400e-003		0.1929	0.1929		0.1775	0.1775		904.5534	904.5534	0.2926		911.8671
Total	0.4805	5.4229	3.6126	9.3400e-003	0.5303	0.1929	0.7232	0.0573	0.1775	0.2347		904.5534	904.5534	0.2926		911.8671

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	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
Worker	0.0160	0.0104	0.1395	4.3000e-004	0.0559	2.5000e-004	0.0561	0.0148	2.3000e-004	0.0151		44.4939	44.4939	1.0400e-003	1.1200e-003	44.8522
Total	0.0160	0.0104	0.1395	4.3000e-004	0.0559	2.5000e-004	0.0561	0.0148	2.3000e-004	0.0151		44.4939	44.4939	1.0400e-003	1.1200e-003	44.8522

Terrano II Apartments - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	0.4805	5.4229	3.6126	9.3400e-003		0.1929	0.1929		0.1775	0.1775	0.0000	904.5534	904.5534	0.2926		911.8671
Total	0.4805	5.4229	3.6126	9.3400e-003	0.2386	0.1929	0.4315	0.0258	0.1775	0.2033	0.0000	904.5534	904.5534	0.2926		911.8671

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	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
Worker	0.0160	0.0104	0.1395	4.3000e-004	0.0559	2.5000e-004	0.0561	0.0148	2.3000e-004	0.0151		44.4939	44.4939	1.0400e-003	1.1200e-003	44.8522
Total	0.0160	0.0104	0.1395	4.3000e-004	0.0559	2.5000e-004	0.0561	0.0148	2.3000e-004	0.0151		44.4939	44.4939	1.0400e-003	1.1200e-003	44.8522

Terrano II Apartments - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.7324	8.0071	7.1671	0.0143		0.3208	0.3208		0.2951	0.2951		1,388.1678	1,388.1678	0.4490		1,399.3918
Total	0.7324	8.0071	7.1671	0.0143	0.5303	0.3208	0.8510	0.0573	0.2951	0.3524		1,388.1678	1,388.1678	0.4490		1,399.3918

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	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
Worker	0.0320	0.0209	0.2791	8.6000e-004	0.1118	5.0000e-004	0.1123	0.0296	4.6000e-004	0.0301		88.9879	88.9879	2.0800e-003	2.2300e-003	89.7044
Total	0.0320	0.0209	0.2791	8.6000e-004	0.1118	5.0000e-004	0.1123	0.0296	4.6000e-004	0.0301		88.9879	88.9879	2.0800e-003	2.2300e-003	89.7044

Terrano II Apartments - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	0.7324	8.0071	7.1671	0.0143		0.3208	0.3208		0.2951	0.2951	0.0000	1,388.1678	1,388.1678	0.4490		1,399.3918
Total	0.7324	8.0071	7.1671	0.0143	0.2386	0.3208	0.5594	0.0258	0.2951	0.3209	0.0000	1,388.1678	1,388.1678	0.4490		1,399.3918

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	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
Worker	0.0320	0.0209	0.2791	8.6000e-004	0.1118	5.0000e-004	0.1123	0.0296	4.6000e-004	0.0301		88.9879	88.9879	2.0800e-003	2.2300e-003	89.7044
Total	0.0320	0.0209	0.2791	8.6000e-004	0.1118	5.0000e-004	0.1123	0.0296	4.6000e-004	0.0301		88.9879	88.9879	2.0800e-003	2.2300e-003	89.7044

Terrano II Apartments - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2024

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	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153		2,289.654 1	2,289.654 1	0.4265		2,300.315 4
Total	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153		2,289.654 1	2,289.654 1	0.4265		2,300.315 4

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	0.0000
Vendor	9.2400e-003	0.3119	0.1238	1.5500e-003	0.0576	2.5500e-003	0.0602	0.0166	2.4400e-003	0.0190		164.5843	164.5843	1.7300e-003	0.0243	171.8700
Worker	0.1441	0.0939	1.2558	3.8800e-003	0.5030	2.2600e-003	0.5053	0.1334	2.0800e-003	0.1355		400.4453	400.4453	9.3500e-003	0.0100	403.6696
Total	0.1533	0.4058	1.3796	5.4300e-003	0.5606	4.8100e-003	0.5655	0.1500	4.5200e-003	0.1545		565.0297	565.0297	0.0111	0.0343	575.5396

Terrano II Apartments - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2024

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	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153	0.0000	2,289.654 1	2,289.654 1	0.4265		2,300.315 4
Total	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153	0.0000	2,289.654 1	2,289.654 1	0.4265		2,300.315 4

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	0.0000
Vendor	9.2400e-003	0.3119	0.1238	1.5500e-003	0.0576	2.5500e-003	0.0602	0.0166	2.4400e-003	0.0190		164.5843	164.5843	1.7300e-003	0.0243	171.8700
Worker	0.1441	0.0939	1.2558	3.8800e-003	0.5030	2.2600e-003	0.5053	0.1334	2.0800e-003	0.1355		400.4453	400.4453	9.3500e-003	0.0100	403.6696
Total	0.1533	0.4058	1.3796	5.4300e-003	0.5606	4.8100e-003	0.5655	0.1500	4.5200e-003	0.1545		565.0297	565.0297	0.0111	0.0343	575.5396

Terrano II Apartments - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2024

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	0.6398	6.2866	9.1629	0.0140		0.3149	0.3149		0.2897	0.2897		1,357.9193	1,357.9193	0.4392		1,368.8988
Paving	0.1284					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7682	6.2866	9.1629	0.0140		0.3149	0.3149		0.2897	0.2897		1,357.9193	1,357.9193	0.4392		1,368.8988

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	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
Worker	0.0320	0.0209	0.2791	8.6000e-004	0.1118	5.0000e-004	0.1123	0.0296	4.6000e-004	0.0301		88.9879	88.9879	2.0800e-003	2.2300e-003	89.7044
Total	0.0320	0.0209	0.2791	8.6000e-004	0.1118	5.0000e-004	0.1123	0.0296	4.6000e-004	0.0301		88.9879	88.9879	2.0800e-003	2.2300e-003	89.7044

Terrano II Apartments - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2024

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	0.6398	6.2866	9.1629	0.0140		0.3149	0.3149		0.2897	0.2897	0.0000	1,357.9193	1,357.9193	0.4392		1,368.8988
Paving	0.1284					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7682	6.2866	9.1629	0.0140		0.3149	0.3149		0.2897	0.2897	0.0000	1,357.9193	1,357.9193	0.4392		1,368.8988

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	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
Worker	0.0320	0.0209	0.2791	8.6000e-004	0.1118	5.0000e-004	0.1123	0.0296	4.6000e-004	0.0301		88.9879	88.9879	2.0800e-003	2.2300e-003	89.7044
Total	0.0320	0.0209	0.2791	8.6000e-004	0.1118	5.0000e-004	0.1123	0.0296	4.6000e-004	0.0301		88.9879	88.9879	2.0800e-003	2.2300e-003	89.7044

Terrano II Apartments - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2024

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	31.8981					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	32.0788	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

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	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
Worker	0.0288	0.0188	0.2512	7.8000e-004	0.1006	4.5000e-004	0.1011	0.0267	4.2000e-004	0.0271		80.0891	80.0891	1.8700e-003	2.0100e-003	80.7339
Total	0.0288	0.0188	0.2512	7.8000e-004	0.1006	4.5000e-004	0.1011	0.0267	4.2000e-004	0.0271		80.0891	80.0891	1.8700e-003	2.0100e-003	80.7339

Terrano II Apartments - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2024

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	31.8981					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	32.0788	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443

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	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
Worker	0.0288	0.0188	0.2512	7.8000e-004	0.1006	4.5000e-004	0.1011	0.0267	4.2000e-004	0.0271		80.0891	80.0891	1.8700e-003	2.0100e-003	80.7339
Total	0.0288	0.0188	0.2512	7.8000e-004	0.1006	4.5000e-004	0.1011	0.0267	4.2000e-004	0.0271		80.0891	80.0891	1.8700e-003	2.0100e-003	80.7339

Terrano II Apartments - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

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	0.8562	1.3671	8.7151	0.0214	2.4328	0.0176	2.4504	0.6490	0.0165	0.6654		2,236.421 4	2,236.421 4	0.1134	0.1091	2,271.763 2
Unmitigated	0.8562	1.3671	8.7151	0.0214	2.4328	0.0176	2.4504	0.6490	0.0165	0.6654		2,236.421 4	2,236.421 4	0.1134	0.1091	2,271.763 2

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	337.00	337.00	337.00	1,151,580	1,151,580
Parking Lot	0.00	0.00	0.00		
Total	337.00	337.00	337.00	1,151,580	1,151,580

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
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Terrano II Apartments - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.540541	0.056458	0.173793	0.136090	0.025268	0.007074	0.011525	0.018705	0.000610	0.000304	0.023606	0.001094	0.004932
Parking Lot	0.540541	0.056458	0.173793	0.136090	0.025268	0.007074	0.011525	0.018705	0.000610	0.000304	0.023606	0.001094	0.004932

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0224	0.1910	0.0813	1.2200e-003		0.0154	0.0154		0.0154	0.0154		243.7697	243.7697	4.6700e-003	4.4700e-003	245.2183
NaturalGas Unmitigated	0.0224	0.1910	0.0813	1.2200e-003		0.0154	0.0154		0.0154	0.0154		243.7697	243.7697	4.6700e-003	4.4700e-003	245.2183

Terrano II Apartments - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					
Apartments Low Rise	2072.04	0.0224	0.1910	0.0813	1.2200e-003		0.0154	0.0154		0.0154	0.0154		243.7697	243.7697	4.6700e-003	4.4700e-003	245.2183
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		0.0224	0.1910	0.0813	1.2200e-003		0.0154	0.0154		0.0154	0.0154		243.7697	243.7697	4.6700e-003	4.4700e-003	245.2183

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					
Apartments Low Rise	2.07204	0.0224	0.1910	0.0813	1.2200e-003		0.0154	0.0154		0.0154	0.0154		243.7697	243.7697	4.6700e-003	4.4700e-003	245.2183
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		0.0224	0.1910	0.0813	1.2200e-003		0.0154	0.0154		0.0154	0.0154		243.7697	243.7697	4.6700e-003	4.4700e-003	245.2183

6.0 Area Detail

Terrano II Apartments - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.2094	0.0475	4.1268	2.2000e-004		0.0229	0.0229		0.0229	0.0229	0.0000	7.4397	7.4397	7.1400e-003	0.0000	7.6183
Unmitigated	1.2094	0.0475	4.1268	2.2000e-004		0.0229	0.0229		0.0229	0.0229	0.0000	7.4397	7.4397	7.1400e-003	0.0000	7.6183

Terrano II Apartments - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0874					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9978					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1243	0.0475	4.1268	2.2000e-004		0.0229	0.0229		0.0229	0.0229		7.4397	7.4397	7.1400e-003		7.6183
Total	1.2094	0.0475	4.1268	2.2000e-004		0.0229	0.0229		0.0229	0.0229	0.0000	7.4397	7.4397	7.1400e-003	0.0000	7.6183

Terrano II Apartments - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.0874					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9978					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1243	0.0475	4.1268	2.2000e-004		0.0229	0.0229		0.0229	0.0229		7.4397	7.4397	7.1400e-003		7.6183
Total	1.2094	0.0475	4.1268	2.2000e-004		0.0229	0.0229		0.0229	0.0229	0.0000	7.4397	7.4397	7.1400e-003	0.0000	7.6183

7.0 Water Detail

7.1 Mitigation Measures Water

Terrano II Apartments - Riverside-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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

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
