

Technical Memorandum

To: Romo Planning Group

From: Kevin P. Carr, MS., KPC EHS Consultants

Date: November 8, 2021

Re: TTM 20494: Highland and Medical Center Project - Air Quality/GHG Assessment

1.0 Purpose

The purpose of this memorandum is to document the results of the air quality (AQ), greenhouse gas (GHG), and Localized Significant Threshold (LST) emissions assessment as it relates to the potential environmental impacts associated with the construction and operation of the proposed Project 95 SFD Lots on 9.9 acres.

2.0 Project Location & Description

- 2.1 Project Location:** The proposed project site is located south of Highland Avenue and west of Medical Center Drive and is referred to as APN: 0143-191-59.
- 2.2 Description:** The Applicant is proposing a tentative tract map (TTM) on an approximately 9.9-acre vacant lot into 95 dwelling units. Construction includes the residential structures, site improvements, landscaping, and two open space lots.

3.0 Air Quality & Greenhouse Gas Assessment

- 3.1 Construction Emissions:** Construction emissions for the Project were estimated by using the California Emissions Estimator Model (CalEEMod) which is a statewide land use emissions computer model designed to provide a uniform platform for government agencies to quantify potential criteria pollutant emissions associated with both construction and operations emissions. CalEEMod is authorized for use to assess project emissions by the South Coast Air Quality Management District (SCAQMD). Construction emissions are summarized in Table 3.1.

Construction emissions were based on CalEEMod default values for 95 dwelling units "Residential – Single Family Housing" land use, with a 280-day construction schedule, and default values for off-road construction equipment usage except for site preparation and grading as defaults are for a larger site in excess of 20 acres. Equipment defaults for grading and site preparation were adjusted for the project's 9.9-acre lot.

Table 3.1. Summary of Peak Construction Emissions *

Year	Emissions (lbs/day)					
	VOC	NOX	CO	SOx	PM10	PM2.5
Maximum Daily Emissions	37.76	20.96	19.89	0.04	6.01	3.56
SCAQMD Regional Threshold	75	100	550	150	150	55
Threshold Exceeded?	NO	NO	NO	NO	NO	NO

* SCAQMD Fugitive Dust Rules Applied.

3.2 Operational Emissions: Operational emissions for the Project were estimated by using the California Emissions Estimator Model (CalEEMod) which is a statewide land use emissions computer model designed to provide a uniform platform for government agencies to quantify potential criteria pollutant emissions associated with both construction and operations emissions. CalEEMod is authorized for use to assess project emissions by the South Coast Air Quality Management District (SCAQMD). Construction and operation emissions are summarized in Table 3.2.

Table 3.2. Summary of Peak Operational Emissions

Year	Emissions (lbs/day)					
	VOC	NOx	CO	SOx	PM10	PM2.5
Maximum Daily Emissions	6.91	5.10	37.10	0.08	6.78	1.98
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	NO	NO	NO	NO	NO	NO

3.3 Localized Significance Thresholds (LSTs): According to the SCAQMD’s Localized Significance Thresholds (LSTs) methodology, LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard. The proposed Project site is located in Source Receptor Area (SRA) 34 for determining the LST levels, the CalEEMod data was used for estimating Project emissions. The emissions levels are based on 2 acres of disturbance with a sensitive receptor at 25 meters. LST emissions are summarized in Table 3.3.

Table 3.3. Summary of Localized Significance Emissions

Emission Source	Emissions (lbs/day)			
	NO _x	CO	PM ₁₀	PM _{2.5}
Construction	20.96	19.89	6.01	3.56
SCAQMD Localized Construction Threshold	170	972	7	5
Operation	5.10	37.10	0.21	0.21
SCAQMD Localized Operation Threshold	170	972	4	1
Thresholds Exceeded?	NO	NO	NO	NO

3.4 Greenhouse Gas Emissions (GHG): GHG emissions for the Project were estimated by using the California Emissions Estimator Model (CalEEMod) which is a statewide land use emissions computer model designed to provide a uniform platform for government agencies to quantify potential criteria pollutant emissions associated with both construction and operations emissions. CalEEMod is authorized for use to assess project emissions by the South Coast Air Quality Management District (SCAQMD). Construction and operation emissions are summarized in Table 3.4

Table 3.4. Project Greenhouse Gas Emissions

Source	GHG Emissions MT/yr			
	N ₂ O	CO ₂	CH ₄	CO ₂ e
Mobile Sources	0.045	1,022.29	0.066	1,037.30
Area	0.00	20.99	0.019	21.14
Energy	0.004	277.59	0.014	279.13
Solid Waste	0.000	22.64	1.34	56.10
Water/Wastewater	0.005	23.95	0.20	30.52
30-year Amortized Construction GHG				12.15
TOTAL				1,436.34
SCAQMD Threshold				3,000
Exceed Threshold?				NO

4.0 Conclusion

Based on the assessment in Section 3.0 all estimated Project emissions for construction and operations are below the significance levels and as such impacts to the environment for Air Quality and Greenhouse Gases are less than significant.

Warmington Highland & Medical Center - South Coast Air Basin, Summer

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

Warmington Highland & Medical Center

South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	95.00	Dwelling Unit	9.90	171,000.00	272

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - acreage per site plan information

Construction Phase - No demolition phase - vacant property

Changed Arch Coating to overlap with construction

Off-road Equipment - Changed default grading equipment due to site being only 9.9 acres

Off-road Equipment - Changed default Site Prep equipment due to site only 9.9 acres

Grading - Site is only 9.9 acres - changed total acres graded from default 20 to 9.9

Woodstoves - no wood burning fireplaces.

Construction Off-road Equipment Mitigation - Rule 401 and 403 compliance

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

Warmington Highland & Medical Center - South Coast Air Basin, Summer

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

tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	PhaseEndDate	2/24/2023	1/13/2023
tblConstructionPhase	PhaseStartDate	1/28/2023	12/5/2022
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberNoFireplace	9.50	14.25
tblFireplaces	NumberWood	4.75	0.00
tblGrading	AcresOfGrading	20.00	9.90
tblGrading	AcresOfGrading	10.00	5.00
tblLandUse	LotAcreage	30.84	9.90
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblWoodstoves	NumberCatalytic	4.75	0.00
tblWoodstoves	NumberNoncatalytic	4.75	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

Warmington Highland & Medical Center - South Coast Air Basin, Summer

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	37.7353	20.9627	19.8904	0.0360	12.6862	1.0156	13.7018	6.7074	0.9344	7.6417	0.0000	3,463.706 0	3,463.706 0	0.8349	0.0400	3,491.844 1
2023	36.9604	11.5415	17.1645	0.0279	0.2459	0.5824	0.8283	0.0652	0.5415	0.6067	0.0000	2,709.173 2	2,709.173 2	0.7361	4.9600e-003	2,729.052 2
Maximum	37.7353	20.9627	19.8904	0.0360	12.6862	1.0156	13.7018	6.7074	0.9344	7.6417	0.0000	3,463.706 0	3,463.706 0	0.8349	0.0400	3,491.844 1

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	37.7353	20.9627	19.8904	0.0360	4.9915	1.0156	6.0071	2.6280	0.9344	3.5624	0.0000	3,463.706 0	3,463.706 0	0.8349	0.0400	3,491.844 1
2023	36.9604	11.5415	17.1645	0.0279	0.1925	0.5824	0.7749	0.0521	0.5415	0.5936	0.0000	2,709.173 2	2,709.173 2	0.7361	4.9600e-003	2,729.052 2
Maximum	37.7353	20.9627	19.8904	0.0360	4.9915	1.0156	6.0071	2.6280	0.9344	3.5624	0.0000	3,463.706 0	3,463.706 0	0.8349	0.0400	3,491.844 1

Warmington Highland & Medical Center - South Coast Air Basin, 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	59.91	0.00	53.32	60.43	0.00	49.62	0.00	0.00	0.00	0.00	0.00	0.00

Warmington Highland & Medical Center - South Coast Air Basin, 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	4.0719	1.4299	8.4094	8.9600e-003		0.1517	0.1517		0.1517	0.1517	0.0000	1,724.1125	1,724.1125	0.0464	0.0314	1,734.6134
Energy	0.0794	0.6785	0.2887	4.3300e-003		0.0549	0.0549		0.0549	0.0549		866.1593	866.1593	0.0166	0.0159	871.3065
Mobile	2.7542	2.9894	28.3775	0.0638	6.5243	0.0450	6.5693	1.7385	0.0418	1.7803		6,564.9242	6,564.9242	0.3976	0.2651	6,653.8571
Total	6.9055	5.0977	37.0756	0.0771	6.5243	0.2515	6.7759	1.7385	0.2484	1.9869	0.0000	9,155.1960	9,155.1960	0.4605	0.3123	9,259.7769

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	4.0719	1.4299	8.4094	8.9600e-003		0.1517	0.1517		0.1517	0.1517	0.0000	1,724.1125	1,724.1125	0.0464	0.0314	1,734.6134
Energy	0.0794	0.6785	0.2887	4.3300e-003		0.0549	0.0549		0.0549	0.0549		866.1593	866.1593	0.0166	0.0159	871.3065
Mobile	2.7542	2.9894	28.3775	0.0638	6.5243	0.0450	6.5693	1.7385	0.0418	1.7803		6,564.9242	6,564.9242	0.3976	0.2651	6,653.8571
Total	6.9055	5.0977	37.0756	0.0771	6.5243	0.2515	6.7759	1.7385	0.2484	1.9869	0.0000	9,155.1960	9,155.1960	0.4605	0.3123	9,259.7769

Warmington Highland & Medical Center - South Coast Air Basin, 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	1/3/2022	1/14/2022	5	10	
2	Grading	Grading	1/15/2022	2/11/2022	5	20	
3	Building Construction	Building Construction	2/12/2022	12/30/2022	5	230	
4	Paving	Paving	12/31/2022	1/27/2023	5	20	
5	Architectural Coating	Architectural Coating	12/5/2022	1/13/2023	5	30	

Acres of Grading (Site Preparation Phase): 5

Acres of Grading (Grading Phase): 9.9

Acres of Paving: 0

Residential Indoor: 346,275; Residential Outdoor: 115,425; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29

Warmington Highland & Medical Center - South Coast Air Basin, Summer

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

Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	1	8.00	158	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	4	10.00	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	9	34.00	10.00	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	7.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

Warmington Highland & Medical Center - South Coast Air Basin, Summer

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

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.5744	0.0000	12.5744	6.6777	0.0000	6.6777			0.0000			0.0000
Off-Road	2.0036	20.9386	11.6399	0.0233		1.0150	1.0150		0.9338	0.9338		2,256.5486	2,256.5486	0.7298		2,274.7939
Total	2.0036	20.9386	11.6399	0.0233	12.5744	1.0150	13.5894	6.6777	0.9338	7.6115		2,256.5486	2,256.5486	0.7298		2,274.7939

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	0.0241	0.3794	1.0100e-003	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		102.7750	102.7750	2.6700e-003	2.4400e-003	103.5683
Total	0.0341	0.0241	0.3794	1.0100e-003	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		102.7750	102.7750	2.6700e-003	2.4400e-003	103.5683

Warmington Highland & Medical Center - South Coast Air Basin, Summer

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

3.2 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9040	0.0000	4.9040	2.6043	0.0000	2.6043			0.0000			0.0000
Off-Road	2.0036	20.9386	11.6399	0.0233		1.0150	1.0150		0.9338	0.9338	0.0000	2,256.5486	2,256.5486	0.7298		2,274.7939
Total	2.0036	20.9386	11.6399	0.0233	4.9040	1.0150	5.9190	2.6043	0.9338	3.5381	0.0000	2,256.5486	2,256.5486	0.7298		2,274.7939

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	0.0241	0.3794	1.0100e-003	0.0875	6.7000e-004	0.0882	0.0237	6.2000e-004	0.0243		102.7750	102.7750	2.6700e-003	2.4400e-003	103.5683
Total	0.0341	0.0241	0.3794	1.0100e-003	0.0875	6.7000e-004	0.0882	0.0237	6.2000e-004	0.0243		102.7750	102.7750	2.6700e-003	2.4400e-003	103.5683

Warmington Highland & Medical Center - South Coast Air Basin, Summer

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

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5470	0.0000	6.5470	3.3669	0.0000	3.3669			0.0000			0.0000
Off-Road	1.7839	19.1795	13.0348	0.0265		0.8507	0.8507		0.7827	0.7827		2,570.8075	2,570.8075	0.8315		2,591.5937
Total	1.7839	19.1795	13.0348	0.0265	6.5470	0.8507	7.3978	3.3669	0.7827	4.1496		2,570.8075	2,570.8075	0.8315		2,591.5937

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	0.0444	0.0313	0.4932	1.3100e-003	0.1453	8.7000e-004	0.1462	0.0385	8.0000e-004	0.0393		133.6076	133.6076	3.4700e-003	3.1700e-003	134.6388
Total	0.0444	0.0313	0.4932	1.3100e-003	0.1453	8.7000e-004	0.1462	0.0385	8.0000e-004	0.0393		133.6076	133.6076	3.4700e-003	3.1700e-003	134.6388

Warmington Highland & Medical Center - South Coast Air Basin, Summer

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

3.3 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5533	0.0000	2.5533	1.3131	0.0000	1.3131			0.0000			0.0000
Off-Road	1.7839	19.1795	13.0348	0.0265		0.8507	0.8507		0.7827	0.7827	0.0000	2,570.807 5	2,570.807 5	0.8315		2,591.593 7
Total	1.7839	19.1795	13.0348	0.0265	2.5533	0.8507	3.4041	1.3131	0.7827	2.0958	0.0000	2,570.807 5	2,570.807 5	0.8315		2,591.593 7

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	0.0444	0.0313	0.4932	1.3100e-003	0.1137	8.7000e-004	0.1146	0.0308	8.0000e-004	0.0316		133.6076	133.6076	3.4700e-003	3.1700e-003	134.6388
Total	0.0444	0.0313	0.4932	1.3100e-003	0.1137	8.7000e-004	0.1146	0.0308	8.0000e-004	0.0316		133.6076	133.6076	3.4700e-003	3.1700e-003	134.6388

Warmington Highland & Medical Center - South Coast Air Basin, Summer

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

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0183	0.4719	0.1578	1.9200e-003	0.0640	4.8100e-003	0.0688	0.0184	4.6000e-003	0.0230		206.5467	206.5467	7.6000e-003	0.0300	215.6755
Worker	0.1160	0.0819	1.2900	3.4300e-003	0.3800	2.2800e-003	0.3823	0.1008	2.1000e-003	0.1029		349.4351	349.4351	9.0800e-003	8.2900e-003	352.1323
Total	0.1343	0.5538	1.4478	5.3500e-003	0.4441	7.0900e-003	0.4512	0.1192	6.7000e-003	0.1259		555.9819	555.9819	0.0167	0.0383	567.8079

Warmington Highland & Medical Center - South Coast Air Basin, Summer

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

3.4 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0183	0.4719	0.1578	1.9200e-003	0.0526	4.8100e-003	0.0574	0.0156	4.6000e-003	0.0202		206.5467	206.5467	7.6000e-003	0.0300	215.6755
Worker	0.1160	0.0819	1.2900	3.4300e-003	0.2974	2.2800e-003	0.2997	0.0805	2.1000e-003	0.0826		349.4351	349.4351	9.0800e-003	8.2900e-003	352.1323
Total	0.1343	0.5538	1.4478	5.3500e-003	0.3501	7.0900e-003	0.3572	0.0961	6.7000e-003	0.1028		555.9819	555.9819	0.0167	0.0383	567.8079

Warmington Highland & Medical Center - South Coast Air Basin, Summer

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

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104

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	0.0512	0.0361	0.5691	1.5200e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		154.1626	154.1626	4.0100e-003	3.6600e-003	155.3525
Total	0.0512	0.0361	0.5691	1.5200e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		154.1626	154.1626	4.0100e-003	3.6600e-003	155.3525

Warmington Highland & Medical Center - South Coast Air Basin, Summer

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

3.5 Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 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	0.0000	0.0000	0.0000	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	0.0512	0.0361	0.5691	1.5200e-003	0.1312	1.0100e-003	0.1322	0.0355	9.3000e-004	0.0365		154.1626	154.1626	4.0100e-003	3.6600e-003	155.3525
Total	0.0512	0.0361	0.5691	1.5200e-003	0.1312	1.0100e-003	0.1322	0.0355	9.3000e-004	0.0365		154.1626	154.1626	4.0100e-003	3.6600e-003	155.3525

Warmington Highland & Medical Center - South Coast Air Basin, Summer

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

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0475	0.0320	0.5244	1.4700e-003	0.1677	9.5000e-004	0.1686	0.0445	8.7000e-004	0.0453		150.0962	150.0962	3.6000e-003	3.3800e-003	151.1929
Total	0.0475	0.0320	0.5244	1.4700e-003	0.1677	9.5000e-004	0.1686	0.0445	8.7000e-004	0.0453		150.0962	150.0962	3.6000e-003	3.3800e-003	151.1929

Warmington Highland & Medical Center - South Coast Air Basin, Summer

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

3.5 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.584 1	2,207.584 1	0.7140		2,225.433 6

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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	0.0475	0.0320	0.5244	1.4700e-003	0.1312	9.5000e-004	0.1322	0.0355	8.7000e-004	0.0364		150.0962	150.0962	3.6000e-003	3.3800e-003	151.1929
Total	0.0475	0.0320	0.5244	1.4700e-003	0.1312	9.5000e-004	0.1322	0.0355	8.7000e-004	0.0364		150.0962	150.0962	3.6000e-003	3.3800e-003	151.1929

Warmington Highland & Medical Center - South Coast Air Basin, Summer

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

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	35.6663					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	35.8709	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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	0.0239	0.0169	0.2656	7.1000e-004	0.0782	4.7000e-004	0.0787	0.0208	4.3000e-004	0.0212		71.9425	71.9425	1.8700e-003	1.7100e-003	72.4978
Total	0.0239	0.0169	0.2656	7.1000e-004	0.0782	4.7000e-004	0.0787	0.0208	4.3000e-004	0.0212		71.9425	71.9425	1.8700e-003	1.7100e-003	72.4978

Warmington Highland & Medical Center - South Coast Air Basin, Summer

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

3.6 Architectural Coating - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	35.6663					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	35.8709	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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	0.0239	0.0169	0.2656	7.1000e-004	0.0612	4.7000e-004	0.0617	0.0166	4.3000e-004	0.0170		71.9425	71.9425	1.8700e-003	1.7100e-003	72.4978
Total	0.0239	0.0169	0.2656	7.1000e-004	0.0612	4.7000e-004	0.0617	0.0166	4.3000e-004	0.0170		71.9425	71.9425	1.8700e-003	1.7100e-003	72.4978

Warmington Highland & Medical Center - South Coast Air Basin, Summer

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

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	35.6663					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	35.8580	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	0.0222	0.0149	0.2447	6.8000e-004	0.0782	4.4000e-004	0.0787	0.0208	4.1000e-004	0.0212		70.0449	70.0449	1.6800e-003	1.5800e-003	70.5567
Total	0.0222	0.0149	0.2447	6.8000e-004	0.0782	4.4000e-004	0.0787	0.0208	4.1000e-004	0.0212		70.0449	70.0449	1.6800e-003	1.5800e-003	70.5567

Warmington Highland & Medical Center - South Coast Air Basin, Summer

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

3.6 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	35.6663					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	35.8580	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

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	0.0222	0.0149	0.2447	6.8000e-004	0.0612	4.4000e-004	0.0617	0.0166	4.1000e-004	0.0170		70.0449	70.0449	1.6800e-003	1.5800e-003	70.5567
Total	0.0222	0.0149	0.2447	6.8000e-004	0.0612	4.4000e-004	0.0617	0.0166	4.1000e-004	0.0170		70.0449	70.0449	1.6800e-003	1.5800e-003	70.5567

Warmington Highland & Medical Center - South Coast Air Basin, 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	2.7542	2.9894	28.3775	0.0638	6.5243	0.0450	6.5693	1.7385	0.0418	1.7803		6,564.924 2	6,564.924 2	0.3976	0.2651	6,653.857 1
Unmitigated	2.7542	2.9894	28.3775	0.0638	6.5243	0.0450	6.5693	1.7385	0.0418	1.7803		6,564.924 2	6,564.924 2	0.3976	0.2651	6,653.857 1

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	896.80	906.30	812.25	3,027,865	3,027,865
Total	896.80	906.30	812.25	3,027,865	3,027,865

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.544109	0.060768	0.184625	0.129879	0.023845	0.006339	0.011719	0.008584	0.000815	0.000515	0.024285	0.000743	0.003774

Warmington Highland & Medical Center - South Coast Air Basin, Summer

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

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	0.0794	0.6785	0.2887	4.3300e-003		0.0549	0.0549		0.0549	0.0549		866.1593	866.1593	0.0166	0.0159	871.3065
NaturalGas Unmitigated	0.0794	0.6785	0.2887	4.3300e-003		0.0549	0.0549		0.0549	0.0549		866.1593	866.1593	0.0166	0.0159	871.3065

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	7362.35	0.0794	0.6785	0.2887	4.3300e-003		0.0549	0.0549		0.0549	0.0549		866.1593	866.1593	0.0166	0.0159	871.3065
Total		0.0794	0.6785	0.2887	4.3300e-003		0.0549	0.0549		0.0549	0.0549		866.1593	866.1593	0.0166	0.0159	871.3065

Warmington Highland & Medical Center - South Coast Air Basin, 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

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	7.36235	0.0794	0.6785	0.2887	4.3300e-003		0.0549	0.0549		0.0549	0.0549		866.1593	866.1593	0.0166	0.0159	871.3065
Total		0.0794	0.6785	0.2887	4.3300e-003		0.0549	0.0549		0.0549	0.0549		866.1593	866.1593	0.0166	0.0159	871.3065

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.0719	1.4299	8.4094	8.9600e-003		0.1517	0.1517		0.1517	0.1517	0.0000	1,724.1125	1,724.1125	0.0464	0.0314	1,734.6134
Unmitigated	4.0719	1.4299	8.4094	8.9600e-003		0.1517	0.1517		0.1517	0.1517	0.0000	1,724.1125	1,724.1125	0.0464	0.0314	1,734.6134

Warmington Highland & Medical Center - South Coast Air Basin, 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	0.2932					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3858					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1568	1.3395	0.5700	8.5500e-003		0.1083	0.1083		0.1083	0.1083	0.0000	1,710.0000	1,710.0000	0.0328	0.0314	1,720.1617
Landscaping	0.2362	0.0904	7.8394	4.1000e-004		0.0434	0.0434		0.0434	0.0434		14.1125	14.1125	0.0136		14.4517
Total	4.0719	1.4299	8.4094	8.9600e-003		0.1517	0.1517		0.1517	0.1517	0.0000	1,724.1125	1,724.1125	0.0463	0.0314	1,734.6134

Warmington Highland & Medical Center - South Coast Air Basin, 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	0.2932					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3858					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1568	1.3395	0.5700	8.5500e-003		0.1083	0.1083		0.1083	0.1083	0.0000	1,710.0000	1,710.0000	0.0328	0.0314	1,720.1617
Landscaping	0.2362	0.0904	7.8394	4.1000e-004		0.0434	0.0434		0.0434	0.0434		14.1125	14.1125	0.0136		14.4517
Total	4.0719	1.4299	8.4094	8.9600e-003		0.1517	0.1517		0.1517	0.1517	0.0000	1,724.1125	1,724.1125	0.0463	0.0314	1,734.6134

7.0 Water Detail

7.1 Mitigation Measures Water

Warmington Highland & Medical Center - South Coast Air Basin, 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
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

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

11.0 Vegetation

Warmington Highland & Medical Center - South Coast Air Basin, Winter

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

**Warmington Highland & Medical Center
South Coast Air Basin, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	95.00	Dwelling Unit	9.90	171,000.00	272

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2023
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 - acreage per site plan information
 Construction Phase - No demolition phase - vacant property
 Changed Arch Coating to overlap with construction
 Off-road Equipment - Changed default grading equipment due to site being only 9.9 acres
 Off-road Equipment - Changed default Site Prep equipment due to site only 9.9 acres
 Grading - Site is only 9.9 acres - changed total acres graded from default 20 to 9.9
 Woodstoves - no wood burning fireplaces.
 Construction Off-road Equipment Mitigation - Rule 401 and 403 compliance

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

Warmington Highland & Medical Center - South Coast Air Basin, Winter

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

tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	PhaseEndDate	2/24/2023	1/13/2023
tblConstructionPhase	PhaseStartDate	1/28/2023	12/5/2022
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberNoFireplace	9.50	14.25
tblFireplaces	NumberWood	4.75	0.00
tblGrading	AcresOfGrading	20.00	9.90
tblGrading	AcresOfGrading	10.00	5.00
tblLandUse	LotAcreage	30.84	9.90
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblWoodstoves	NumberCatalytic	4.75	0.00
tblWoodstoves	NumberNoncatalytic	4.75	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

Warmington Highland & Medical Center - South Coast Air Basin, Winter

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	37.7436	20.9650	19.7568	0.0357	12.6862	1.0156	13.7018	6.7074	0.9344	7.6417	0.0000	3,440.2458	3,440.2458	0.8350	0.0407	3,468.5852
2023	36.9649	11.5461	17.0965	0.0278	0.2459	0.5824	0.8283	0.0652	0.5415	0.6067	0.0000	2,696.9045	2,696.9045	0.7362	5.2700e-003	2,716.8782
Maximum	37.7436	20.9650	19.7568	0.0357	12.6862	1.0156	13.7018	6.7074	0.9344	7.6417	0.0000	3,440.2458	3,440.2458	0.8350	0.0407	3,468.5852

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	37.7436	20.9650	19.7568	0.0357	4.9915	1.0156	6.0071	2.6280	0.9344	3.5624	0.0000	3,440.2458	3,440.2458	0.8350	0.0407	3,468.5852
2023	36.9649	11.5461	17.0965	0.0278	0.1925	0.5824	0.7749	0.0521	0.5415	0.5936	0.0000	2,696.9045	2,696.9045	0.7362	5.2700e-003	2,716.8782
Maximum	37.7436	20.9650	19.7568	0.0357	4.9915	1.0156	6.0071	2.6280	0.9344	3.5624	0.0000	3,440.2458	3,440.2458	0.8350	0.0407	3,468.5852

Warmington Highland & Medical Center - South Coast Air Basin, 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	59.91	0.00	53.32	60.43	0.00	49.62	0.00	0.00	0.00	0.00	0.00	0.00

Warmington Highland & Medical Center - South Coast Air Basin, 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	4.0719	1.4299	8.4094	8.9600e-003		0.1517	0.1517		0.1517	0.1517	0.0000	1,724.1125	1,724.1125	0.0464	0.0314	1,734.6134
Energy	0.0794	0.6785	0.2887	4.3300e-003		0.0549	0.0549		0.0549	0.0549		866.1593	866.1593	0.0166	0.0159	871.3065
Mobile	2.6810	3.2142	27.4769	0.0609	6.5243	0.0450	6.5694	1.7385	0.0418	1.7803		6,270.3540	6,270.3540	0.4088	0.2760	6,362.8068
Total	6.8323	5.3225	36.1750	0.0742	6.5243	0.2516	6.7759	1.7385	0.2484	1.9869	0.0000	8,860.6258	8,860.6258	0.4718	0.3232	8,968.7267

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	4.0719	1.4299	8.4094	8.9600e-003		0.1517	0.1517		0.1517	0.1517	0.0000	1,724.1125	1,724.1125	0.0464	0.0314	1,734.6134
Energy	0.0794	0.6785	0.2887	4.3300e-003		0.0549	0.0549		0.0549	0.0549		866.1593	866.1593	0.0166	0.0159	871.3065
Mobile	2.6810	3.2142	27.4769	0.0609	6.5243	0.0450	6.5694	1.7385	0.0418	1.7803		6,270.3540	6,270.3540	0.4088	0.2760	6,362.8068
Total	6.8323	5.3225	36.1750	0.0742	6.5243	0.2516	6.7759	1.7385	0.2484	1.9869	0.0000	8,860.6258	8,860.6258	0.4718	0.3232	8,968.7267

Warmington Highland & Medical Center - South Coast Air Basin, 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	1/3/2022	1/14/2022	5	10	
2	Grading	Grading	1/15/2022	2/11/2022	5	20	
3	Building Construction	Building Construction	2/12/2022	12/30/2022	5	230	
4	Paving	Paving	12/31/2022	1/27/2023	5	20	
5	Architectural Coating	Architectural Coating	12/5/2022	1/13/2023	5	30	

Acres of Grading (Site Preparation Phase): 5

Acres of Grading (Grading Phase): 9.9

Acres of Paving: 0

Residential Indoor: 346,275; Residential Outdoor: 115,425; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29

Warmington Highland & Medical Center - South Coast Air Basin, Winter

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

Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	1	8.00	158	0.38

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	4	10.00	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	9	34.00	10.00	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	7.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

Warmington Highland & Medical Center - South Coast Air Basin, Winter

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

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					12.5744	0.0000	12.5744	6.6777	0.0000	6.6777			0.0000			0.0000
Off-Road	2.0036	20.9386	11.6399	0.0233		1.0150	1.0150		0.9338	0.9338		2,256.5486	2,256.5486	0.7298		2,274.7939
Total	2.0036	20.9386	11.6399	0.0233	12.5744	1.0150	13.5894	6.6777	0.9338	7.6115		2,256.5486	2,256.5486	0.7298		2,274.7939

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	0.0362	0.0264	0.3455	9.5000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		97.0348	97.0348	2.7100e-003	2.5900e-003	97.8749
Total	0.0362	0.0264	0.3455	9.5000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		97.0348	97.0348	2.7100e-003	2.5900e-003	97.8749

Warmington Highland & Medical Center - South Coast Air Basin, Winter

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

3.2 Site Preparation - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9040	0.0000	4.9040	2.6043	0.0000	2.6043			0.0000			0.0000
Off-Road	2.0036	20.9386	11.6399	0.0233		1.0150	1.0150		0.9338	0.9338	0.0000	2,256.5486	2,256.5486	0.7298		2,274.7939
Total	2.0036	20.9386	11.6399	0.0233	4.9040	1.0150	5.9190	2.6043	0.9338	3.5381	0.0000	2,256.5486	2,256.5486	0.7298		2,274.7939

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	0.0362	0.0264	0.3455	9.5000e-004	0.0875	6.7000e-004	0.0882	0.0237	6.2000e-004	0.0243		97.0348	97.0348	2.7100e-003	2.5900e-003	97.8749
Total	0.0362	0.0264	0.3455	9.5000e-004	0.0875	6.7000e-004	0.0882	0.0237	6.2000e-004	0.0243		97.0348	97.0348	2.7100e-003	2.5900e-003	97.8749

Warmington Highland & Medical Center - South Coast Air Basin, Winter

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

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.5470	0.0000	6.5470	3.3669	0.0000	3.3669			0.0000			0.0000
Off-Road	1.7839	19.1795	13.0348	0.0265		0.8507	0.8507		0.7827	0.7827		2,570.8075	2,570.8075	0.8315		2,591.5937
Total	1.7839	19.1795	13.0348	0.0265	6.5470	0.8507	7.3978	3.3669	0.7827	4.1496		2,570.8075	2,570.8075	0.8315		2,591.5937

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	0.0471	0.0344	0.4491	1.2400e-003	0.1453	8.7000e-004	0.1462	0.0385	8.0000e-004	0.0393		126.1452	126.1452	3.5200e-003	3.3700e-003	127.2374
Total	0.0471	0.0344	0.4491	1.2400e-003	0.1453	8.7000e-004	0.1462	0.0385	8.0000e-004	0.0393		126.1452	126.1452	3.5200e-003	3.3700e-003	127.2374

Warmington Highland & Medical Center - South Coast Air Basin, Winter

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

3.3 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.5533	0.0000	2.5533	1.3131	0.0000	1.3131			0.0000			0.0000
Off-Road	1.7839	19.1795	13.0348	0.0265		0.8507	0.8507		0.7827	0.7827	0.0000	2,570.807 5	2,570.807 5	0.8315		2,591.593 7
Total	1.7839	19.1795	13.0348	0.0265	2.5533	0.8507	3.4041	1.3131	0.7827	2.0958	0.0000	2,570.807 5	2,570.807 5	0.8315		2,591.593 7

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	0.0471	0.0344	0.4491	1.2400e-003	0.1137	8.7000e-004	0.1146	0.0308	8.0000e-004	0.0316		126.1452	126.1452	3.5200e-003	3.3700e-003	127.2374
Total	0.0471	0.0344	0.4491	1.2400e-003	0.1137	8.7000e-004	0.1146	0.0308	8.0000e-004	0.0316		126.1452	126.1452	3.5200e-003	3.3700e-003	127.2374

Warmington Highland & Medical Center - South Coast Air Basin, Winter

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

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0180	0.4914	0.1634	1.9200e-003	0.0640	4.8300e-003	0.0689	0.0184	4.6200e-003	0.0231		206.6216	206.6216	7.5800e-003	0.0300	215.7599
Worker	0.1232	0.0899	1.1746	3.2400e-003	0.3800	2.2800e-003	0.3823	0.1008	2.1000e-003	0.1029		329.9182	329.9182	9.2000e-003	8.8100e-003	332.7746
Total	0.1411	0.5813	1.3380	5.1600e-003	0.4441	7.1100e-003	0.4512	0.1192	6.7200e-003	0.1259		536.5399	536.5399	0.0168	0.0388	548.5345

Warmington Highland & Medical Center - South Coast Air Basin, Winter

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

3.4 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322

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	0.0180	0.4914	0.1634	1.9200e-003	0.0526	4.8300e-003	0.0574	0.0156	4.6200e-003	0.0203		206.6216	206.6216	7.5800e-003	0.0300	215.7599
Worker	0.1232	0.0899	1.1746	3.2400e-003	0.2974	2.2800e-003	0.2997	0.0805	2.1000e-003	0.0826		329.9182	329.9182	9.2000e-003	8.8100e-003	332.7746
Total	0.1411	0.5813	1.3380	5.1600e-003	0.3501	7.1100e-003	0.3572	0.0961	6.7200e-003	0.1029		536.5399	536.5399	0.0168	0.0388	548.5345

Warmington Highland & Medical Center - South Coast Air Basin, Winter

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

3.5 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104

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	0.0543	0.0397	0.5182	1.4300e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		145.5522	145.5522	4.0600e-003	3.8900e-003	146.8123
Total	0.0543	0.0397	0.5182	1.4300e-003	0.1677	1.0100e-003	0.1687	0.0445	9.3000e-004	0.0454		145.5522	145.5522	4.0600e-003	3.8900e-003	146.8123

Warmington Highland & Medical Center - South Coast Air Basin, Winter

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

3.5 Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 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	0.0000	0.0000	0.0000	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	0.0543	0.0397	0.5182	1.4300e-003	0.1312	1.0100e-003	0.1322	0.0355	9.3000e-004	0.0365		145.5522	145.5522	4.0600e-003	3.8900e-003	146.8123
Total	0.0543	0.0397	0.5182	1.4300e-003	0.1312	1.0100e-003	0.1322	0.0355	9.3000e-004	0.0365		145.5522	145.5522	4.0600e-003	3.8900e-003	146.8123

Warmington Highland & Medical Center - South Coast Air Basin, Winter

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

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0506	0.0351	0.4780	1.3800e-003	0.1677	9.5000e-004	0.1686	0.0445	8.7000e-004	0.0453		141.7311	141.7311	3.6500e-003	3.5900e-003	142.8925
Total	0.0506	0.0351	0.4780	1.3800e-003	0.1677	9.5000e-004	0.1686	0.0445	8.7000e-004	0.0453		141.7311	141.7311	3.6500e-003	3.5900e-003	142.8925

Warmington Highland & Medical Center - South Coast Air Basin, Winter

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

3.5 Paving - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336

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	0.0506	0.0351	0.4780	1.3800e-003	0.1312	9.5000e-004	0.1322	0.0355	8.7000e-004	0.0364		141.7311	141.7311	3.6500e-003	3.5900e-003	142.8925
Total	0.0506	0.0351	0.4780	1.3800e-003	0.1312	9.5000e-004	0.1322	0.0355	8.7000e-004	0.0364		141.7311	141.7311	3.6500e-003	3.5900e-003	142.8925

Warmington Highland & Medical Center - South Coast Air Basin, Winter

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

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	35.6663					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062
Total	35.8709	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817		281.4481	281.4481	0.0183		281.9062

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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	0.0254	0.0185	0.2418	6.7000e-004	0.0782	4.7000e-004	0.0787	0.0208	4.3000e-004	0.0212		67.9243	67.9243	1.8900e-003	1.8100e-003	68.5124
Total	0.0254	0.0185	0.2418	6.7000e-004	0.0782	4.7000e-004	0.0787	0.0208	4.3000e-004	0.0212		67.9243	67.9243	1.8900e-003	1.8100e-003	68.5124

Warmington Highland & Medical Center - South Coast Air Basin, Winter

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

3.6 Architectural Coating - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	35.6663					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2045	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062
Total	35.8709	1.4085	1.8136	2.9700e-003		0.0817	0.0817		0.0817	0.0817	0.0000	281.4481	281.4481	0.0183		281.9062

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	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	0.0254	0.0185	0.2418	6.7000e-004	0.0612	4.7000e-004	0.0617	0.0166	4.3000e-004	0.0170		67.9243	67.9243	1.8900e-003	1.8100e-003	68.5124
Total	0.0254	0.0185	0.2418	6.7000e-004	0.0612	4.7000e-004	0.0617	0.0166	4.3000e-004	0.0170		67.9243	67.9243	1.8900e-003	1.8100e-003	68.5124

Warmington Highland & Medical Center - South Coast Air Basin, Winter

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

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	35.6663					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	35.8580	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

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	0.0236	0.0164	0.2231	6.5000e-004	0.0782	4.4000e-004	0.0787	0.0208	4.1000e-004	0.0212		66.1412	66.1412	1.7000e-003	1.6800e-003	66.6832
Total	0.0236	0.0164	0.2231	6.5000e-004	0.0782	4.4000e-004	0.0787	0.0208	4.1000e-004	0.0212		66.1412	66.1412	1.7000e-003	1.6800e-003	66.6832

Warmington Highland & Medical Center - South Coast Air Basin, Winter

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

3.6 Architectural Coating - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	35.6663					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	35.8580	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

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	0.0236	0.0164	0.2231	6.5000e-004	0.0612	4.4000e-004	0.0617	0.0166	4.1000e-004	0.0170		66.1412	66.1412	1.7000e-003	1.6800e-003	66.6832
Total	0.0236	0.0164	0.2231	6.5000e-004	0.0612	4.4000e-004	0.0617	0.0166	4.1000e-004	0.0170		66.1412	66.1412	1.7000e-003	1.6800e-003	66.6832

Warmington Highland & Medical Center - South Coast Air Basin, 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	2.6810	3.2142	27.4769	0.0609	6.5243	0.0450	6.5694	1.7385	0.0418	1.7803		6,270.3540	6,270.3540	0.4088	0.2760	6,362.8068
Unmitigated	2.6810	3.2142	27.4769	0.0609	6.5243	0.0450	6.5694	1.7385	0.0418	1.7803		6,270.3540	6,270.3540	0.4088	0.2760	6,362.8068

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	896.80	906.30	812.25	3,027,865	3,027,865
Total	896.80	906.30	812.25	3,027,865	3,027,865

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.544109	0.060768	0.184625	0.129879	0.023845	0.006339	0.011719	0.008584	0.000815	0.000515	0.024285	0.000743	0.003774

Warmington Highland & Medical Center - South Coast Air Basin, Winter

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

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	0.0794	0.6785	0.2887	4.3300e-003		0.0549	0.0549		0.0549	0.0549		866.1593	866.1593	0.0166	0.0159	871.3065
NaturalGas Unmitigated	0.0794	0.6785	0.2887	4.3300e-003		0.0549	0.0549		0.0549	0.0549		866.1593	866.1593	0.0166	0.0159	871.3065

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	7362.35	0.0794	0.6785	0.2887	4.3300e-003		0.0549	0.0549		0.0549	0.0549		866.1593	866.1593	0.0166	0.0159	871.3065
Total		0.0794	0.6785	0.2887	4.3300e-003		0.0549	0.0549		0.0549	0.0549		866.1593	866.1593	0.0166	0.0159	871.3065

Warmington Highland & Medical Center - South Coast Air Basin, 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

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	7.36235	0.0794	0.6785	0.2887	4.3300e-003		0.0549	0.0549		0.0549	0.0549		866.1593	866.1593	0.0166	0.0159	871.3065
Total		0.0794	0.6785	0.2887	4.3300e-003		0.0549	0.0549		0.0549	0.0549		866.1593	866.1593	0.0166	0.0159	871.3065

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.0719	1.4299	8.4094	8.9600e-003		0.1517	0.1517		0.1517	0.1517	0.0000	1,724.1125	1,724.1125	0.0464	0.0314	1,734.6134
Unmitigated	4.0719	1.4299	8.4094	8.9600e-003		0.1517	0.1517		0.1517	0.1517	0.0000	1,724.1125	1,724.1125	0.0464	0.0314	1,734.6134

Warmington Highland & Medical Center - South Coast Air Basin, 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	0.2932					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3858					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1568	1.3395	0.5700	8.5500e-003		0.1083	0.1083		0.1083	0.1083	0.0000	1,710.0000	1,710.0000	0.0328	0.0314	1,720.1617
Landscaping	0.2362	0.0904	7.8394	4.1000e-004		0.0434	0.0434		0.0434	0.0434		14.1125	14.1125	0.0136		14.4517
Total	4.0719	1.4299	8.4094	8.9600e-003		0.1517	0.1517		0.1517	0.1517	0.0000	1,724.1125	1,724.1125	0.0463	0.0314	1,734.6134

Warmington Highland & Medical Center - South Coast Air Basin, 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	0.2932					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.3858					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.1568	1.3395	0.5700	8.5500e-003		0.1083	0.1083		0.1083	0.1083	0.0000	1,710.0000	1,710.0000	0.0328	0.0314	1,720.1617
Landscaping	0.2362	0.0904	7.8394	4.1000e-004		0.0434	0.0434		0.0434	0.0434		14.1125	14.1125	0.0136		14.4517
Total	4.0719	1.4299	8.4094	8.9600e-003		0.1517	0.1517		0.1517	0.1517	0.0000	1,724.1125	1,724.1125	0.0463	0.0314	1,734.6134

7.0 Water Detail

7.1 Mitigation Measures Water

Warmington Highland & Medical Center - South Coast Air Basin, 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
----------------	--------	-----------	-----------	-------------	-------------	-----------

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

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

11.0 Vegetation

Warmington Highland & Medical Center - South Coast Air Basin, Annual

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

Warmington Highland & Medical Center

South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	95.00	Dwelling Unit	9.90	171,000.00	272

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	10			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	390.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - acreage per site plan information

Construction Phase - No demolition phase - vacant property

Changed Arch Coating to overlap with construction

Off-road Equipment - Changed default grading equipment due to site being only 9.9 acres

Off-road Equipment - Changed default Site Prep equipment due to site only 9.9 acres

Grading - Site is only 9.9 acres - changed total acres graded from default 20 to 9.9

Woodstoves - no wood burning fireplaces.

Construction Off-road Equipment Mitigation - Rule 401 and 403 compliance

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	25
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15

Warmington Highland & Medical Center - South Coast Air Basin, Annual

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

tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	PhaseEndDate	2/24/2023	1/13/2023
tblConstructionPhase	PhaseStartDate	1/28/2023	12/5/2022
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberNoFireplace	9.50	14.25
tblFireplaces	NumberWood	4.75	0.00
tblGrading	AcresOfGrading	20.00	9.90
tblGrading	AcresOfGrading	10.00	5.00
tblLandUse	LotAcreage	30.84	9.90
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	2.00
tblWoodstoves	NumberCatalytic	4.75	0.00
tblWoodstoves	NumberNoncatalytic	4.75	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

Warmington Highland & Medical Center - South Coast Air Basin, Annual

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

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.5988	2.1746	2.2543	4.1300e-003	0.1812	0.1083	0.2895	0.0813	0.1016	0.1829	0.0000	361.2855	361.2855	0.0767	4.1300e-003	364.4323
2023	0.1902	0.1089	0.1609	2.6000e-004	2.0300e-003	5.4700e-003	7.5000e-003	5.4000e-004	5.0600e-003	5.6000e-003	0.0000	22.9117	22.9117	6.5900e-003	4.0000e-005	23.0887
Maximum	0.5988	2.1746	2.2543	4.1300e-003	0.1812	0.1083	0.2895	0.0813	0.1016	0.1829	0.0000	361.2855	361.2855	0.0767	4.1300e-003	364.4323

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.5988	2.1746	2.2543	4.1300e-003	0.0918	0.1083	0.2000	0.0376	0.1016	0.1393	0.0000	361.2852	361.2852	0.0767	4.1300e-003	364.4319
2023	0.1902	0.1089	0.1609	2.6000e-004	1.5900e-003	5.4700e-003	7.0600e-003	4.3000e-004	5.0600e-003	5.4900e-003	0.0000	22.9117	22.9117	6.5900e-003	4.0000e-005	23.0887
Maximum	0.5988	2.1746	2.2543	4.1300e-003	0.0918	0.1083	0.2000	0.0376	0.1016	0.1393	0.0000	361.2852	361.2852	0.0767	4.1300e-003	364.4319

Warmington Highland & Medical Center - South Coast Air Basin, Annual

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	49.06	0.00	30.27	53.49	0.00	23.21	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-3-2022	4-2-2022	0.6312	0.6312
2	4-3-2022	7-2-2022	0.5853	0.5853
3	7-3-2022	10-2-2022	0.5918	0.5918
4	10-3-2022	1-2-2023	0.9725	0.9725
5	1-3-2023	4-2-2023	0.2471	0.2471
		Highest	0.9725	0.9725

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7029	0.0280	0.9871	1.6000e-004		6.7800e-003	6.7800e-003		6.7800e-003	6.7800e-003	0.0000	20.9914	20.9914	1.9100e-003	3.6000e-004	21.1451
Energy	0.0145	0.1238	0.0527	7.9000e-004		0.0100	0.0100		0.0100	0.0100	0.0000	277.5896	277.5896	0.0141	4.0000e-003	279.1340
Mobile	0.4687	0.5806	4.9431	0.0109	1.1397	8.0000e-003	1.1477	0.3041	7.4300e-003	0.3116	0.0000	1,022.2973	1,022.2973	0.0657	0.0449	1,037.3085
Waste						0.0000	0.0000		0.0000	0.0000	22.6376	0.0000	22.6376	1.3378	0.0000	56.0836
Water						0.0000	0.0000		0.0000	0.0000	1.9637	21.9817	23.9454	0.2035	4.9900e-003	30.5202
Total	1.1861	0.7325	5.9829	0.0119	1.1397	0.0248	1.1645	0.3041	0.0242	0.3284	24.6012	1,342.8600	1,367.4612	1.6231	0.0542	1,424.1913

Warmington Highland & Medical Center - South Coast Air Basin, Annual

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.7029	0.0280	0.9871	1.6000e-004		6.7800e-003	6.7800e-003		6.7800e-003	6.7800e-003	0.0000	20.9914	20.9914	1.9100e-003	3.6000e-004	21.1451
Energy	0.0145	0.1238	0.0527	7.9000e-004		0.0100	0.0100		0.0100	0.0100	0.0000	277.5896	277.5896	0.0141	4.0000e-003	279.1340
Mobile	0.4687	0.5806	4.9431	0.0109	1.1397	8.0000e-003	1.1477	0.3041	7.4300e-003	0.3116	0.0000	1,022.2973	1,022.2973	0.0657	0.0449	1,037.3085
Waste						0.0000	0.0000		0.0000	0.0000	22.6376	0.0000	22.6376	1.3378	0.0000	56.0836
Water						0.0000	0.0000		0.0000	0.0000	1.9637	21.9817	23.9454	0.2035	4.9900e-003	30.5202
Total	1.1861	0.7325	5.9829	0.0119	1.1397	0.0248	1.1645	0.3041	0.0242	0.3284	24.6012	1,342.8600	1,367.4612	1.6231	0.0542	1,424.1913

	ROG	NOx	CO	SO2	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	1/3/2022	1/14/2022	5	10	
2	Grading	Grading	1/15/2022	2/11/2022	5	20	
3	Building Construction	Building Construction	2/12/2022	12/30/2022	5	230	

Warmington Highland & Medical Center - South Coast Air Basin, Annual

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

4	Paving	Paving	12/31/2022	1/27/2023	5	20
5	Architectural Coating	Architectural Coating	12/5/2022	1/13/2023	5	30

Acres of Grading (Site Preparation Phase): 5

Acres of Grading (Grading Phase): 9.9

Acres of Paving: 0

Residential Indoor: 346,275; Residential Outdoor: 115,425; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	1	8.00	158	0.38

Trips and VMT

Warmington Highland & Medical Center - South Coast Air Basin, Annual

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

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	4	10.00	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	9	34.00	10.00	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	7.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0629	0.0000	0.0629	0.0334	0.0000	0.0334	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0100	0.1047	0.0582	1.2000e-004		5.0700e-003	5.0700e-003		4.6700e-003	4.6700e-003	0.0000	10.2355	10.2355	3.3100e-003	0.0000	10.3183
Total	0.0100	0.1047	0.0582	1.2000e-004	0.0629	5.0700e-003	0.0679	0.0334	4.6700e-003	0.0381	0.0000	10.2355	10.2355	3.3100e-003	0.0000	10.3183

Warmington Highland & Medical Center - South Coast Air Basin, Annual

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

3.2 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.4000e-004	1.7700e-003	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4464	0.4464	1.0000e-005	1.0000e-005	0.4503
Total	1.7000e-004	1.4000e-004	1.7700e-003	0.0000	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4464	0.4464	1.0000e-005	1.0000e-005	0.4503

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0245	0.0000	0.0245	0.0130	0.0000	0.0130	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0100	0.1047	0.0582	1.2000e-004		5.0700e-003	5.0700e-003		4.6700e-003	4.6700e-003	0.0000	10.2355	10.2355	3.3100e-003	0.0000	10.3183
Total	0.0100	0.1047	0.0582	1.2000e-004	0.0245	5.0700e-003	0.0296	0.0130	4.6700e-003	0.0177	0.0000	10.2355	10.2355	3.3100e-003	0.0000	10.3183

Warmington Highland & Medical Center - South Coast Air Basin, Annual

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

3.2 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.4000e-004	1.7700e-003	0.0000	4.3000e-004	0.0000	4.3000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4464	0.4464	1.0000e-005	1.0000e-005	0.4503
Total	1.7000e-004	1.4000e-004	1.7700e-003	0.0000	4.3000e-004	0.0000	4.3000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4464	0.4464	1.0000e-005	1.0000e-005	0.4503

3.3 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0178	0.1918	0.1304	2.7000e-004		8.5100e-003	8.5100e-003		7.8300e-003	7.8300e-003	0.0000	23.3220	23.3220	7.5400e-003	0.0000	23.5105
Total	0.0178	0.1918	0.1304	2.7000e-004	0.0655	8.5100e-003	0.0740	0.0337	7.8300e-003	0.0415	0.0000	23.3220	23.3220	7.5400e-003	0.0000	23.5105

Warmington Highland & Medical Center - South Coast Air Basin, Annual

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

3.3 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4000e-004	3.5000e-004	4.6100e-003	1.0000e-005	1.4300e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1606	1.1606	3.0000e-005	3.0000e-005	1.1707
Total	4.4000e-004	3.5000e-004	4.6100e-003	1.0000e-005	1.4300e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.1606	1.1606	3.0000e-005	3.0000e-005	1.1707

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0255	0.0000	0.0255	0.0131	0.0000	0.0131	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0178	0.1918	0.1304	2.7000e-004		8.5100e-003	8.5100e-003		7.8300e-003	7.8300e-003	0.0000	23.3220	23.3220	7.5400e-003	0.0000	23.5105
Total	0.0178	0.1918	0.1304	2.7000e-004	0.0255	8.5100e-003	0.0340	0.0131	7.8300e-003	0.0210	0.0000	23.3220	23.3220	7.5400e-003	0.0000	23.5105

Warmington Highland & Medical Center - South Coast Air Basin, Annual

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

3.3 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4000e-004	3.5000e-004	4.6100e-003	1.0000e-005	1.1200e-003	1.0000e-005	1.1300e-003	3.0000e-004	1.0000e-005	3.1000e-004	0.0000	1.1606	1.1606	3.0000e-005	3.0000e-005	1.1707
Total	4.4000e-004	3.5000e-004	4.6100e-003	1.0000e-005	1.1200e-003	1.0000e-005	1.1300e-003	3.0000e-004	1.0000e-005	3.1000e-004	0.0000	1.1606	1.1606	3.0000e-005	3.0000e-005	1.1707

3.4 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1962	1.7958	1.8818	3.1000e-003		0.0930	0.0930		0.0875	0.0875	0.0000	266.4840	266.4840	0.0638	0.0000	268.0801
Total	0.1962	1.7958	1.8818	3.1000e-003		0.0930	0.0930		0.0875	0.0875	0.0000	266.4840	266.4840	0.0638	0.0000	268.0801

Warmington Highland & Medical Center - South Coast Air Basin, Annual

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

3.4 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.0800e-003	0.0569	0.0184	2.2000e-004	7.2500e-003	5.5000e-004	7.8000e-003	2.0900e-003	5.3000e-004	2.6200e-003	0.0000	21.5516	21.5516	7.9000e-004	3.1300e-003	22.5048
Worker	0.0131	0.0106	0.1386	3.8000e-004	0.0429	2.6000e-004	0.0432	0.0114	2.4000e-004	0.0116	0.0000	34.9073	34.9073	9.6000e-004	9.3000e-004	35.2098
Total	0.0152	0.0675	0.1570	6.0000e-004	0.0502	8.1000e-004	0.0510	0.0135	7.7000e-004	0.0143	0.0000	56.4588	56.4588	1.7500e-003	4.0600e-003	57.7147

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1962	1.7958	1.8818	3.1000e-003		0.0930	0.0930		0.0875	0.0875	0.0000	266.4837	266.4837	0.0638	0.0000	268.0798
Total	0.1962	1.7958	1.8818	3.1000e-003		0.0930	0.0930		0.0875	0.0875	0.0000	266.4837	266.4837	0.0638	0.0000	268.0798

Warmington Highland & Medical Center - South Coast Air Basin, Annual

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

3.5 Paving - 2022

Mitigated Construction Off-Site

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

3.5 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0269	20.0269	6.4800e-003	0.0000	20.1888
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0269	20.0269	6.4800e-003	0.0000	20.1888

Warmington Highland & Medical Center - South Coast Air Basin, Annual

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

3.5 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.6000e-004	4.9000e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3039	1.3039	3.0000e-005	3.0000e-005	1.3146
Total	4.7000e-004	3.6000e-004	4.9000e-003	1.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3039	1.3039	3.0000e-005	3.0000e-005	1.3146

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0268	20.0268	6.4800e-003	0.0000	20.1888
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0103	0.1019	0.1458	2.3000e-004		5.1000e-003	5.1000e-003		4.6900e-003	4.6900e-003	0.0000	20.0268	20.0268	6.4800e-003	0.0000	20.1888

Warmington Highland & Medical Center - South Coast Air Basin, Annual

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

3.5 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	3.6000e-004	4.9000e-003	1.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.3039	1.3039	3.0000e-005	3.0000e-005	1.3146
Total	4.7000e-004	3.6000e-004	4.9000e-003	1.0000e-005	1.2900e-003	1.0000e-005	1.3000e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.3039	1.3039	3.0000e-005	3.0000e-005	1.3146

3.6 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3567					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
Total	0.3587	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574

Warmington Highland & Medical Center - South Coast Air Basin, Annual

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

3.6 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.9000e-004	2.4800e-003	1.0000e-005	7.7000e-004	0.0000	7.7000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.6249	0.6249	2.0000e-005	2.0000e-005	0.6304
Total	2.3000e-004	1.9000e-004	2.4800e-003	1.0000e-005	7.7000e-004	0.0000	7.7000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.6249	0.6249	2.0000e-005	2.0000e-005	0.6304

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3567					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0500e-003	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574
Total	0.3587	0.0141	0.0181	3.0000e-005		8.2000e-004	8.2000e-004		8.2000e-004	8.2000e-004	0.0000	2.5533	2.5533	1.7000e-004	0.0000	2.5574

Warmington Highland & Medical Center - South Coast Air Basin, Annual

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

3.6 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3000e-004	1.9000e-004	2.4800e-003	1.0000e-005	6.0000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.6249	0.6249	2.0000e-005	2.0000e-005	0.6304
Total	2.3000e-004	1.9000e-004	2.4800e-003	1.0000e-005	6.0000e-004	0.0000	6.1000e-004	1.6000e-004	0.0000	1.7000e-004	0.0000	0.6249	0.6249	2.0000e-005	2.0000e-005	0.6304

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1783					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
Total	0.1793	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785

Warmington Highland & Medical Center - South Coast Air Basin, Annual

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

3.6 Architectural Coating - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	8.0000e-005	1.1400e-003	0.0000	3.8000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3043	0.3043	1.0000e-005	1.0000e-005	0.3068
Total	1.1000e-004	8.0000e-005	1.1400e-003	0.0000	3.8000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3043	0.3043	1.0000e-005	1.0000e-005	0.3068

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1783					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.6000e-004	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785
Total	0.1793	6.5100e-003	9.0600e-003	1.0000e-005		3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004	0.0000	1.2766	1.2766	8.0000e-005	0.0000	1.2785

Warmington Highland & Medical Center - South Coast Air Basin, Annual

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

3.6 Architectural Coating - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1000e-004	8.0000e-005	1.1400e-003	0.0000	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.3043	0.3043	1.0000e-005	1.0000e-005	0.3068	
Total	1.1000e-004	8.0000e-005	1.1400e-003	0.0000	3.0000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.3043	0.3043	1.0000e-005	1.0000e-005	0.3068	

Warmington Highland & Medical Center - South Coast Air Basin, Annual

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	tons/yr										MT/yr					
Mitigated	0.4687	0.5806	4.9431	0.0109	1.1397	8.0000e-003	1.1477	0.3041	7.4300e-003	0.3116	0.0000	1,022.2973	1,022.2973	0.0657	0.0449	1,037.3085
Unmitigated	0.4687	0.5806	4.9431	0.0109	1.1397	8.0000e-003	1.1477	0.3041	7.4300e-003	0.3116	0.0000	1,022.2973	1,022.2973	0.0657	0.0449	1,037.3085

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	896.80	906.30	812.25	3,027,865	3,027,865
Total	896.80	906.30	812.25	3,027,865	3,027,865

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.544109	0.060768	0.184625	0.129879	0.023845	0.006339	0.011719	0.008584	0.000815	0.000515	0.024285	0.000743	0.003774

Warmington Highland & Medical Center - South Coast Air Basin, Annual

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

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	134.1872	134.1872	0.0113	1.3700e-003	134.8795
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	134.1872	134.1872	0.0113	1.3700e-003	134.8795
NaturalGas Mitigated	0.0145	0.1238	0.0527	7.9000e-004		0.0100	0.0100		0.0100	0.0100	0.0000	143.4024	143.4024	2.7500e-003	2.6300e-003	144.2546
NaturalGas Unmitigated	0.0145	0.1238	0.0527	7.9000e-004		0.0100	0.0100		0.0100	0.0100	0.0000	143.4024	143.4024	2.7500e-003	2.6300e-003	144.2546

Warmington Highland & Medical Center - South Coast Air Basin, Annual

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

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	2.68726e+006	0.0145	0.1238	0.0527	7.9000e-004		0.0100	0.0100		0.0100	0.0100	0.0000	143.4024	143.4024	2.7500e-003	2.6300e-003	144.2546
Total		0.0145	0.1238	0.0527	7.9000e-004		0.0100	0.0100		0.0100	0.0100	0.0000	143.4024	143.4024	2.7500e-003	2.6300e-003	144.2546

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	2.68726e+006	0.0145	0.1238	0.0527	7.9000e-004		0.0100	0.0100		0.0100	0.0100	0.0000	143.4024	143.4024	2.7500e-003	2.6300e-003	144.2546
Total		0.0145	0.1238	0.0527	7.9000e-004		0.0100	0.0100		0.0100	0.0100	0.0000	143.4024	143.4024	2.7500e-003	2.6300e-003	144.2546

Warmington Highland & Medical Center - South Coast Air Basin, Annual

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	756643	134.1872	0.0113	1.3700e-003	134.8795
Total		134.1872	0.0113	1.3700e-003	134.8795

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	756643	134.1872	0.0113	1.3700e-003	134.8795
Total		134.1872	0.0113	1.3700e-003	134.8795

6.0 Area Detail

6.1 Mitigation Measures Area

Warmington Highland & Medical Center - South Coast Air Basin, Annual

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
Category	tons/yr										MT/yr					
Mitigated	0.7029	0.0280	0.9871	1.6000e-004		6.7800e-003	6.7800e-003		6.7800e-003	6.7800e-003	0.0000	20.9914	20.9914	1.9100e-003	3.6000e-004	21.1451
Unmitigated	0.7029	0.0280	0.9871	1.6000e-004		6.7800e-003	6.7800e-003		6.7800e-003	6.7800e-003	0.0000	20.9914	20.9914	1.9100e-003	3.6000e-004	21.1451

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0535					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6179					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.9600e-003	0.0167	7.1200e-003	1.1000e-004		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003	0.0000	19.3911	19.3911	3.7000e-004	3.6000e-004	19.5063
Landscaping	0.0295	0.0113	0.9799	5.0000e-005		5.4200e-003	5.4200e-003		5.4200e-003	5.4200e-003	0.0000	1.6003	1.6003	1.5400e-003	0.0000	1.6388
Total	0.7029	0.0280	0.9870	1.6000e-004		6.7700e-003	6.7700e-003		6.7700e-003	6.7700e-003	0.0000	20.9914	20.9914	1.9100e-003	3.6000e-004	21.1451

Warmington Highland & Medical Center - South Coast Air Basin, Annual

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	tons/yr										MT/yr					
Architectural Coating	0.0535					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6179					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.9600e-003	0.0167	7.1200e-003	1.1000e-004		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003	0.0000	19.3911	19.3911	3.7000e-004	3.6000e-004	19.5063
Landscaping	0.0295	0.0113	0.9799	5.0000e-005		5.4200e-003	5.4200e-003		5.4200e-003	5.4200e-003	0.0000	1.6003	1.6003	1.5400e-003	0.0000	1.6388
Total	0.7029	0.0280	0.9870	1.6000e-004		6.7700e-003	6.7700e-003		6.7700e-003	6.7700e-003	0.0000	20.9914	20.9914	1.9100e-003	3.6000e-004	21.1451

7.0 Water Detail

7.1 Mitigation Measures Water

Warmington Highland & Medical Center - South Coast Air Basin, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	23.9454	0.2035	4.9900e-003	30.5202
Unmitigated	23.9454	0.2035	4.9900e-003	30.5202

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	6.18963 / 3.90216	23.9454	0.2035	4.9900e-003	30.5202
Total		23.9454	0.2035	4.9900e-003	30.5202

Warmington Highland & Medical Center - South Coast Air Basin, Annual

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	6.18963 / 3.90216	23.9454	0.2035	4.9900e-003	30.5202
Total		23.9454	0.2035	4.9900e-003	30.5202

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	22.6376	1.3378	0.0000	56.0836
Unmitigated	22.6376	1.3378	0.0000	56.0836

Warmington Highland & Medical Center - South Coast Air Basin, Annual

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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	111.52	22.6376	1.3378	0.0000	56.0836
Total		22.6376	1.3378	0.0000	56.0836

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	111.52	22.6376	1.3378	0.0000	56.0836
Total		22.6376	1.3378	0.0000	56.0836

9.0 Operational Offroad

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

Warmington Highland & Medical Center - South Coast Air Basin, Annual

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

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

11.0 Vegetation

Warmington Highland & Palm

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

South Coast Air Basin, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Warmington Highland & Palm

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

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	2	No Change	0.00
Scrapers	Diesel	No Change	0	1	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	7	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

Warmington Highland & Palm

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	2.87000E-003	1.95400E-002	2.71700E-002	4.00000E-005	1.06000E-003	1.06000E-003	0.00000E+000	3.82988E+000	3.82988E+000	2.30000E-004	0.00000E+000	3.83561E+000
Cranes	4.82000E-002	5.36280E-001	2.46340E-001	7.60000E-004	2.23000E-002	2.05100E-002	0.00000E+000	6.65385E+001	6.65385E+001	2.15200E-002	0.00000E+000	6.70765E+001
Excavators	3.04000E-003	2.66500E-002	4.88300E-002	8.00000E-005	1.29000E-003	1.19000E-003	0.00000E+000	6.80409E+000	6.80409E+000	2.20000E-003	0.00000E+000	6.85911E+000
Forklifts	4.97900E-002	4.63280E-001	5.18110E-001	6.90000E-004	3.01800E-002	2.77600E-002	0.00000E+000	6.04311E+001	6.04311E+001	1.95400E-002	0.00000E+000	6.09197E+001
Generator Sets	4.85300E-002	4.30730E-001	5.51130E-001	9.90000E-004	2.12900E-002	2.12900E-002	0.00000E+000	8.47811E+001	8.47811E+001	3.95000E-003	0.00000E+000	8.48798E+001
Graders	6.22000E-003	7.88600E-002	2.58300E-002	1.00000E-004	2.51000E-003	2.31000E-003	0.00000E+000	8.72638E+000	8.72638E+000	2.82000E-003	0.00000E+000	8.79693E+000
Pavers	3.84000E-003	3.76600E-002	5.76600E-002	9.00000E-005	1.77000E-003	1.63000E-003	0.00000E+000	8.25932E+000	8.25932E+000	2.67000E-003	0.00000E+000	8.32611E+000
Paving Equipment	3.41000E-003	3.20600E-002	5.11300E-002	8.00000E-005	1.56000E-003	1.43000E-003	0.00000E+000	7.15709E+000	7.15709E+000	2.31000E-003	0.00000E+000	7.21496E+000
Rollers	3.07000E-003	3.22000E-002	3.70400E-002	5.00000E-005	1.77000E-003	1.63000E-003	0.00000E+000	4.61045E+000	4.61045E+000	1.49000E-003	0.00000E+000	4.64773E+000
Rubber Tired Dozers	1.67400E-002	1.75870E-001	7.16400E-002	1.70000E-004	8.35000E-003	7.68000E-003	0.00000E+000	1.50055E+001	1.50055E+001	4.85000E-003	0.00000E+000	1.51268E+001
Scrapers	1.22900E-002	1.34150E-001	9.56400E-002	2.30000E-004	5.24000E-003	4.82000E-003	0.00000E+000	2.00074E+001	2.00074E+001	6.47000E-003	0.00000E+000	2.01692E+001
Tractors/Loaders/Backhoes	7.00400E-002	7.12110E-001	9.70010E-001	1.35000E-003	3.75900E-002	3.45800E-002	0.00000E+000	1.18567E+002	1.18567E+002	3.83500E-002	0.00000E+000	1.19526E+002
Welders	4.06200E-002	2.17740E-001	2.53660E-001	3.80000E-004	9.23000E-003	9.23000E-003	0.00000E+000	2.82331E+001	2.82331E+001	3.30000E-003	0.00000E+000	2.83156E+001

Warmington Highland & Palm

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	2.87000E-003	1.95400E-002	2.71700E-002	4.00000E-005	1.06000E-003	1.06000E-003	0.00000E+000	3.82988E+000	3.82988E+000	2.30000E-004	0.00000E+000	3.83560E+000
Cranes	4.82000E-002	5.36280E-001	2.46340E-001	7.60000E-004	2.23000E-002	2.05100E-002	0.00000E+000	6.65384E+001	6.65384E+001	2.15200E-002	0.00000E+000	6.70764E+001
Excavators	3.04000E-003	2.66500E-002	4.88300E-002	8.00000E-005	1.29000E-003	1.19000E-003	0.00000E+000	6.80409E+000	6.80409E+000	2.20000E-003	0.00000E+000	6.85910E+000
Forklifts	4.97900E-002	4.63280E-001	5.18110E-001	6.90000E-004	3.01800E-002	2.77600E-002	0.00000E+000	6.04310E+001	6.04310E+001	1.95400E-002	0.00000E+000	6.09196E+001
Generator Sets	4.85300E-002	4.30730E-001	5.51130E-001	9.90000E-004	2.12900E-002	2.12900E-002	0.00000E+000	8.47810E+001	8.47810E+001	3.95000E-003	0.00000E+000	8.48797E+001
Graders	6.22000E-003	7.88600E-002	2.58300E-002	1.00000E-004	2.51000E-003	2.31000E-003	0.00000E+000	8.72637E+000	8.72637E+000	2.82000E-003	0.00000E+000	8.79692E+000
Pavers	3.84000E-003	3.76600E-002	5.76600E-002	9.00000E-005	1.77000E-003	1.63000E-003	0.00000E+000	8.25931E+000	8.25931E+000	2.67000E-003	0.00000E+000	8.32610E+000
Paving Equipment	3.41000E-003	3.20600E-002	5.11300E-002	8.00000E-005	1.56000E-003	1.43000E-003	0.00000E+000	7.15708E+000	7.15708E+000	2.31000E-003	0.00000E+000	7.21495E+000
Rollers	3.07000E-003	3.22000E-002	3.70400E-002	5.00000E-005	1.77000E-003	1.63000E-003	0.00000E+000	4.61045E+000	4.61045E+000	1.49000E-003	0.00000E+000	4.64772E+000
Rubber Tired Dozers	1.67400E-002	1.75870E-001	7.16400E-002	1.70000E-004	8.35000E-003	7.68000E-003	0.00000E+000	1.50055E+001	1.50055E+001	4.85000E-003	0.00000E+000	1.51268E+001
Scrapers	1.22900E-002	1.34150E-001	9.56400E-002	2.30000E-004	5.24000E-003	4.82000E-003	0.00000E+000	2.00074E+001	2.00074E+001	6.47000E-003	0.00000E+000	2.01692E+001
Tractors/Loaders/Balckhoes	7.00400E-002	7.12110E-001	9.70010E-001	1.35000E-003	3.75900E-002	3.45800E-002	0.00000E+000	1.18567E+002	1.18567E+002	3.83500E-002	0.00000E+000	1.19526E+002
Welders	4.06200E-002	2.17740E-001	2.53660E-001	3.80000E-004	9.23000E-003	9.23000E-003	0.00000E+000	2.82331E+001	2.82331E+001	3.30000E-003	0.00000E+000	2.83155E+001

Warmington Highland & Palm

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

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.60715E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20231E-006	1.20231E-006	0.00000E+000	0.00000E+000	1.19267E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.45792E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.15834E-006	1.15834E-006	0.00000E+000	0.00000E+000	1.31320E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17951E-006	1.17951E-006	0.00000E+000	0.00000E+000	1.17814E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.14595E-006	1.14595E-006	0.00000E+000	0.00000E+000	1.13676E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21075E-006	1.21075E-006	0.00000E+000	0.00000E+000	1.20104E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.39722E-006	1.39722E-006	0.00000E+000	0.00000E+000	1.38601E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.15159E-006
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.33285E-006	1.33285E-006	0.00000E+000	0.00000E+000	6.61078E-007
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	9.99629E-007	9.99629E-007	0.00000E+000	0.00000E+000	9.91611E-007
Tractors/Loaders/Balckhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.18077E-006	1.18077E-006	0.00000E+000	0.00000E+000	1.25496E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.06258E-006	1.06258E-006	0.00000E+000	0.00000E+000	1.05949E-006

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

Yes	Soil Stabilizer for unpaved Roads	PM10 Reduction	30.00	PM2.5 Reduction	30.00	
-----	-----------------------------------	----------------	-------	-----------------	-------	--

Warmington Highland & Palm

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

No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00		
Yes	Water Exposed Area	PM10 Reduction	61.00	PM2.5 Reduction	61.00	Frequency (per day)	3.00
No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00		
Yes	Clean Paved Road	% PM Reduction	25.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.22	0.20
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.09	0.02	0.07	0.02	0.21	0.19
Grading	Fugitive Dust	0.10	0.05	0.04	0.02	0.61	0.61
Grading	Roads	0.00	0.00	0.00	0.00	0.22	0.21
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.22	0.20
Site Preparation	Fugitive Dust	0.03	0.02	0.01	0.01	0.61	0.61
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.23	0.25

Operational Percent Reduction Summary

Warmington Highland & Palm

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

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value 3
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	-0.01	0.13		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

Warmington Highland & Palm

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

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00

Warmington Highland & Palm

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

No	Commuter	Provide Ride Sharing Program			
	Commuter	Commuter Subtotal	0.00		
No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
No	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	50.00
No	Use Low VOC Paint (Residential Exterior)	50.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	
No	% Electric Leafblower	
No	% Electric Chainsaw	

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		

Warmington Highland & Palm

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

No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

Solid Waste Mitigation

Warmington Highland & Palm

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

Mitigation Measures	Input Value
Institute Recycling and Composting Services Percent Reduction in Waste Disposed	