



County of San Diego

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TO: Heather Steven
FROM: Shaurya Johari, Air Quality and Greenhouse Gas Specialist – Independent Contractor
SUBJECT: Clark Site Plan (PDS2020-STP-20-008) Greenhouse Gas Emissions Analysis
DATE: August 30, 2021

This memorandum summarizes the greenhouse gas (GHG) emissions estimates for the Clark Site Plan (project). The proposed project consists of a veterinary clinic of 4,498 square foot area and a dental clinic of 3,254 square foot area in the Valley Center community. The total number of parking spaces for the project is 56, which include six (6) electric vehicle (EV) charging stations. The project is expected to generate 50 average daily trips (ADT) per 1,000 square feet as provided by County Staff. The purpose of this memorandum is to quantify GHG emissions generated by the project and the potential emissions reductions from GHG reducing project design features.

Please note that the information presented in this memorandum is intended for discussion purposes only. The estimated values are based on general assumptions that may not reflect project-specific conditions. This memorandum and the values presented herein are based on high-level estimations to demonstrate the GHG reduction potential of sustainable design features. Further analysis and review would be required to ensure the accuracy of this information.

Setting and Methodology

The project would generate GHG emissions during construction and operational activities. Emissions during construction activities would be associated with construction equipment fuel combustion and exhaust, vendor and hauling trips, and passenger vehicle travel (i.e., worker commute). GHG emissions generated during project operations would be associated with area sources (i.e., consumer products and landscape maintenance equipment use), energy consumption (i.e., electricity and natural gas consumption), mobile sources (i.e., fuel combustion in vehicle use associated with the project), solid waste (i.e., waste disposed in a landfill), water consumption, and wastewater generation.

Construction of the project is expected to begin early 2022 and be completed in mid-2022. The first year of full operations is anticipated to be 2023. Project-related GHG emissions

were estimated using the California Emissions Estimator Model (CalEEMod) Version 2020.4.0.¹ GHG emissions are expressed in terms of metric tons per carbon dioxide equivalent (MTCO_{2e}) on an annual basis.

Sustainability Measures

The project would implement the following sustainable design features to reduce GHG emissions:

- Install photovoltaic (PV) solar panels;
- Reduce outdoor water consumption by 40 percent from the Maximum Applied Water Allowance;
- Install low-flow water fixtures;
- Install energy efficient appliances;
- Install electric water heaters;
- Install electric vehicle (EV) chargers; and
- Divert 90 percent of inert and 70 percent of all other construction and demolition waste from a landfill;

Emissions Estimates and Methodology

As noted previously, GHG emissions for the project were estimated for construction and operational activities, consistent with CalEEMod methodology and the data and information provided by the project applicant. CalEEMod was used to determine total, unmitigated emissions generated by the project. The total GHG emissions that would be generated by the project and the potential emissions reductions associated with the sustainable design features are summarized in Table 1. Detailed calculations of annual GHG emissions generated by the project without accounting for the sustainable design features are included in Attachment A. A summary of the calculations estimating GHG emissions reductions from each sustainable design feature are included in Attachment B.

Solar Panel Installation

Potential emissions reductions from the installation of solar panels were estimated based on the information provided by the applicant. According to the applicant, close to 90 percent of the electricity would be generated from on-site solar panels. This percentage of solar kilowatt-hours (kWh) generated by the project was input into CalEEMod to estimate potential GHG reductions associated with the on-site generation of renewable electricity.

Reduce Outdoor Water Consumption

¹ California Air Pollution Control Officers Association. 2021. *California Emissions Estimator Model Version 2020.4.0*. Available: <http://caleemod.com/>. Accessed August 27, 2021.

The project will comply with the County's Water Conservation and Landscaping Ordinance and demonstrate a 40 percent reduction in current Maximum Applied Water Allowance (MAWA) for outdoor water use. This reduction in outdoor water consumption was input as a mitigation measure in CalEEMod to estimate associated GHG reductions.

Low-Flow Water Fixtures

The project would install low-flow water fixtures that would reduce indoor water consumption. The potential water consumption reduction and associated GHG emissions reduction were estimated in CalEEMod, based on default water savings values for low-flow fixtures.

Energy Efficient Appliances

The project is committed to installing qualified ENERGY STAR™ appliances within both the clinics. The installation of these appliances would improve overall energy efficiency of the project and reduce potential GHG emissions generated from energy use. Estimates for potential energy use reduction and associated reduction in annual GHG emissions were estimated in CalEEMod, accounting for the installation of energy efficient fans, refrigerator, and dish washers. The increased efficiency of these appliances was based on the default assumptions in CalEEMod for installing ENERGY STAR™ certified appliances.

Electric Water Heating

The project proposes the installation of electric water heaters, which would eliminate natural gas use from standard water heaters. However, CalEEMod does not allow a separate estimation of reductions associated with electric or alternative fuel water heating. Furthermore, the County's 2018 Climate Action Plan (CAP) GHG reduction measures do not address electric water heaters for non-residential land uses. For these reasons, potential emission reductions from electric water heaters were not quantified for this analysis.

Electric Vehicle Charging

The project applicant has committed to installing six (6) EV charging stations amongst the 56 parking spaces. Potential emissions reductions were estimated using methodology from the County's CAP Measure T-3.5. The County CAP Measure T-3.5 estimates emission reductions from replacement of gasoline vehicles with EV vehicles. The installation of EV chargers would help build the infrastructure required to support EV vehicles and help reduce regional emissions from vehicle use.

Construction Waste Diversion

The project is committed to exceeding current CALGreen standards for construction and demolition waste diversion associated with construction activities. However, CalEEMod does not allow a separate estimation of reductions associated with construction and demolition waste diversion. Furthermore, the County's 2018 Climate Action Plan (CAP)

GHG reduction measures do not address construction and demolition waste diversion. For these reasons, potential emission reductions from construction waste diversion were not quantified for this analysis.

Table 1: Estimated Annual GHG Emissions

Emissions Source	GHG Emissions (MTCO₂e/year)¹
Amortized Construction ²	2
Area	<1
Energy	26
Mobile	261
Solid Waste	42
Water	4
Total Annual Emissions Without Sustainable Design Features	335
Solar Panel Installation	-16
Low-Flow Water Fixtures	-9
Outdoor Water Use Reduction	-0.13
Energy Efficient Appliances	-0.14
EV Charger Station	-25
Total Annual Emissions with Sustainable Design Features	286
Notes: GHG = greenhouse gas; MTCO ₂ e = metric tons of carbon dioxide equivalent	
¹ Columns may not add due to rounding.	
² GHG emissions generated during construction activities were annualized to reflect emissions generated on an annual basis over the lifetime of the project (30-years). This methodology is consistent with the South Coast Air Quality Management District recommendations for analyzing construction emissions.	

Project Emissions Comparison

A screening threshold was used to assess the project's GHG emissions. In response to Assembly Bill (AB) 32, which is the California Global Warming Solutions Act of 2006 requiring the State to reach 1990 emission levels by 2020, the California Air Pollution Control Officers Association (CAPCOA) white paper titled "CEQA & Climate Change: Evaluating and Addressing Greenhouse Gas Emissions from projects Subject to the CEQA,"² provides a methodology used for jurisdictions across the state to identify a screening level for GHG emissions. The CAPCOA guidance states that projects should be screened to determine if their associated GHG emissions exceed 900 MTCO₂e. Since adoption of this threshold, Senate Bill (SB) 32 was passed to set a revised statewide reduction target to reduce emissions to 40 percent below 1990 levels by year 2030.

² California Air Pollution Control Officers Association. 2008. CEQA and Climate Change. Available: <http://www.capcoa.org/wp-content/uploads/downloads/2010/05/CAPCOA-White-Paper.pdf>. Accessed: August 27, 2021.

As compared to similar mass emissions thresholds adopted by other regional air districts, the CAPCOA 900 MTCO₂e per year threshold is relatively conservative and could be used to support cumulative impact determination beyond 2020. In April 2020, the Sacramento Metropolitan Air Quality Management District (SMAQMD) published updated project screening levels and determined that projects estimated to generate less than 1,100 MTCO₂e per year would not result in a significant, cumulative impact.³ This threshold was developed to demonstrate compliance with the statewide reduction targets of SB 32 by 2030.

Thus, the CAPCOA threshold of 900 MTCO₂e represents a more stringent screening level than has been approved by other air districts in compliance with 2030 statewide reduction targets. Also, as State legislative requirements such as Building Energy Efficiency Standards and transportation-related efficiency measures become increasingly stringent overtime, future project GHG emissions would be reduced helping to meet State emission reduction targets.

The project is estimated to generate 333 MTCO₂e per year during operations. Construction emissions are estimated to result in 2 MTCO₂e per year when amortized over a 30-year timeframe (consistent with methodology from the SCAQMD⁴). With construction, annual project GHG emissions were estimated to be 335 MTCO₂e and would be reduced by 49 MTCO₂e when accounting for sustainability measures, resulting in a total of 286 MTCO₂e. The project would not generate GHG emissions that would result in an impact when compared to the 900 MTCO₂e per year CAPCOA or 1,100 MTCO₂e per year SMAQMD screening thresholds. However, the project does not rely on the screening level thresholds to determine impact significance, rather to illustrate that the project would not cause a significant direct or cumulative impact from GHG emissions due to the relatively small amount of GHG emissions during operation and construction.

Within the region, other jurisdictions use comparable mass emissions thresholds, including the City of San Marcos. The City of San Marcos uses a 500 MTCO₂e per year GHG screening threshold.⁵ The City of San Marcos developed a GHG screening threshold of 500 MTCO₂e to meet AB 32 and SB 32 targets and to determine whether development within the city would result in cumulative impacts to climate change. While the City of San Marcos threshold is intended for use by projects in a more urban setting than the County, the GHG emissions generated by the project would still be screened

³ Sacramento Metropolitan Air Quality Management District (SMAQMD). 2020. Greenhouse Gas Thresholds for Sacramento County. Available: https://files.ceqanet.opr.ca.gov/123569-2/attachment/UL9obk_yjl5aUBxUrjyQ9P3HVyfSL0CEnhvRpgSHGIQmRUgvfjw0ZXCcdqPM73IOOUtFc8RI7yl_48800. Accessed: August 27, 2021.

⁴ South Coast Air Quality Management District. 2008. Interim CEQA GHG Significance Threshold for Stationary Sources, Rules and Plans. Available: <http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook/ghg-significance-thresholds>. Accessed August 27, 2021.

⁵ City of San Marcos. 2020. Guidance to Demonstrating Consistency with the City of San Marcos Climate Action Plan: For Discretionary Projects Subject to CEQA. Available: <https://www.san-marcos.net/home/showdocument?id=24736>. Accessed August 27, 2021.

from requiring additional analysis and its impacts would be considered less than significant.

Conclusion

Implementation of the project would result in GHG emissions from both construction and operational activities. The project would result in GHG reductions from the implementation of project sustainable design features. Further, the project would not generate GHG emissions greater than CAPCOA's recommended threshold for both construction and operations or other more stringent thresholds in use in the region. The GHG emission estimates and comparisons to mass emissions thresholds provided within this memorandum support a less than significant impact conclusion.

As noted previously the information and analysis provided in this memorandum are intended only to demonstrate the GHG reduction potential of the project's sustainable design features. Further analysis and review would be required to accurately estimate GHG emissions generated by the project and the GHG emissions reduction potential of these sustainable design features.

Supporting documentation and calculations are included as attachments to this memorandum.

Attachment A	CalEEMod Outputs – Unmitigated Project Emissions
Attachment B	GHG Reduction Calculations for Sustainable Design Features

Attachment A

CalEEMod Outputs - Unmitigated
Project Emissions

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Clark Site Plan PDS2020-STP-20-008 - No Mitigation**

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1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	4.50	1000sqft	0.10	4,498.00	0
Medical Office Building	3.25	1000sqft	0.07	3,254.00	0
Parking Lot	56.00	Space	0.50	22,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2023
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	358.46	CH4 Intensity (lb/MWhr)	0.001	N2O Intensity (lb/MWhr)	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Updated SDG&E RPS

Land Use - Veterinary clinic - 4,498 sqft

Dental clinic - 3,254 sqft

Construction Phase -

Trips and VMT -

On-road Fugitive Dust -

Grading -

Architectural Coating -

Vehicle Trips - Average daily trip provided by the client

Vehicle Emission Factors - Using EMFAC 2021 emission factors.

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Vehicle Emission Factors - Using EMFAC 2021 emission factors.

Vehicle Emission Factors - Using EMFAC 2021 emission factors.

Consumer Products -

Area Coating -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation -

Area Mitigation - Reflects APCD Rule 67

Energy Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	100
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	50
tblLandUse	LandUseSquareFeet	3,250.00	3,254.00
tblLandUse	LandUseSquareFeet	4,500.00	4,498.00
tblProjectCharacteristics	CH4IntensityFactor	0.033	0.001
tblProjectCharacteristics	CO2IntensityFactor	539.98	358.46
tblProjectCharacteristics	N2OIntensityFactor	0.004	0
tblVehicleEF	HHD	0.03	0.94
tblVehicleEF	HHD	0.07	0.08
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	6.66	0.57
tblVehicleEF	HHD	0.48	0.23
tblVehicleEF	HHD	9.0030e-003	78.77
tblVehicleEF	HHD	5.75	66.44
tblVehicleEF	HHD	2.66	2.07
tblVehicleEF	HHD	2.38	2.74
tblVehicleEF	HHD	3.1570e-003	0.04

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tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	2.0000e-006	0.00
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tblVehicleEF	HHD	0.45	5.31
tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	HHD	6.0000e-006	2.4270e-003
tblVehicleEF	HHD	0.52	6.74
tblVehicleEF	HHD	0.10	0.11
tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.92
tblVehicleEF	HHD	0.07	0.08
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	6.57	0.57
tblVehicleEF	HHD	0.48	0.23
tblVehicleEF	HHD	8.4620e-003	80.34
tblVehicleEF	HHD	5.50	70.36
tblVehicleEF	HHD	2.56	2.06
tblVehicleEF	HHD	2.38	2.74
tblVehicleEF	HHD	2.7490e-003	0.04
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	2.0000e-006	0.00
tblVehicleEF	HHD	9.0000e-006	2.3790e-003
tblVehicleEF	HHD	0.48	4.89
tblVehicleEF	HHD	0.03	0.02

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tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	HHD	9.0000e-006	2.3790e-003
tblVehicleEF	HHD	0.55	6.27
tblVehicleEF	HHD	0.10	0.11
tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	HHD	0.03	0.95
tblVehicleEF	HHD	0.07	0.08
tblVehicleEF	HHD	1.0000e-006	0.00
tblVehicleEF	HHD	6.80	0.57
tblVehicleEF	HHD	0.48	0.23
tblVehicleEF	HHD	9.2430e-003	77.63
tblVehicleEF	HHD	6.09	63.60
tblVehicleEF	HHD	2.65	1.99
tblVehicleEF	HHD	2.38	2.74
tblVehicleEF	HHD	3.7200e-003	0.03
tblVehicleEF	HHD	0.06	0.08
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.02	0.03
tblVehicleEF	HHD	2.0000e-006	0.00
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tblVehicleEF	HHD	0.03	0.02
tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	HHD	5.0000e-006	3.1590e-003
tblVehicleEF	HHD	0.48	7.08
tblVehicleEF	HHD	0.10	0.11
tblVehicleEF	HHD	3.0000e-006	0.00
tblVehicleEF	LDA	2.0310e-003	3.1150e-003
tblVehicleEF	LDA	0.05	0.07

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tblVehicleEF	LDA	0.00	0.78
tblVehicleEF	LDA	0.53	0.03
tblVehicleEF	LDA	2.06	0.00
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.17	0.26
tblVehicleEF	LDA	0.04	7.3770e-003
tblVehicleEF	LDA	1.5120e-003	1.7800e-003
tblVehicleEF	LDA	1.7760e-003	2.1720e-003
tblVehicleEF	LDA	0.04	1.46
tblVehicleEF	LDA	7.5890e-003	0.01
tblVehicleEF	LDA	0.20	0.33
tblVehicleEF	LDA	0.04	1.46
tblVehicleEF	LDA	0.01	0.02
tblVehicleEF	LDA	0.22	0.36
tblVehicleEF	LDA	2.2110e-003	3.0730e-003
tblVehicleEF	LDA	0.04	0.08
tblVehicleEF	LDA	0.00	0.75
tblVehicleEF	LDA	0.60	0.03
tblVehicleEF	LDA	1.70	0.00
tblVehicleEF	LDA	0.03	0.05
tblVehicleEF	LDA	0.16	0.27
tblVehicleEF	LDA	0.04	7.3770e-003
tblVehicleEF	LDA	1.5120e-003	1.7800e-003
tblVehicleEF	LDA	1.7760e-003	2.1720e-003
tblVehicleEF	LDA	0.06	1.44
tblVehicleEF	LDA	8.1610e-003	0.01
tblVehicleEF	LDA	0.18	0.35
tblVehicleEF	LDA	0.06	1.44
tblVehicleEF	LDA	0.01	0.02

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tblVehicleEF	LDA	0.19	0.38
tblVehicleEF	LDA	1.9880e-003	3.2500e-003
tblVehicleEF	LDA	0.05	0.06
tblVehicleEF	LDA	0.00	0.96
tblVehicleEF	LDA	0.52	0.03
tblVehicleEF	LDA	2.21	0.00
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.18	0.24
tblVehicleEF	LDA	0.04	7.3770e-003
tblVehicleEF	LDA	1.5120e-003	1.7800e-003
tblVehicleEF	LDA	1.7760e-003	2.1720e-003
tblVehicleEF	LDA	0.03	1.76
tblVehicleEF	LDA	7.4640e-003	0.01
tblVehicleEF	LDA	0.21	0.29
tblVehicleEF	LDA	0.03	1.76
tblVehicleEF	LDA	0.01	0.02
tblVehicleEF	LDA	0.23	0.32
tblVehicleEF	LDT1	5.8260e-003	0.01
tblVehicleEF	LDT1	0.07	0.13
tblVehicleEF	LDT1	0.00	1.92
tblVehicleEF	LDT1	1.12	0.04
tblVehicleEF	LDT1	2.32	0.00
tblVehicleEF	LDT1	0.10	0.18
tblVehicleEF	LDT1	0.26	0.46
tblVehicleEF	LDT1	0.04	9.3010e-003
tblVehicleEF	LDT1	2.0940e-003	2.8880e-003
tblVehicleEF	LDT1	2.4540e-003	3.4320e-003
tblVehicleEF	LDT1	0.11	3.52
tblVehicleEF	LDT1	0.03	0.05

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tblVehicleEF	LDT1	0.36	0.67
tblVehicleEF	LDT1	0.11	3.52
tblVehicleEF	LDT1	0.04	0.07
tblVehicleEF	LDT1	0.40	0.74
tblVehicleEF	LDT1	6.2810e-003	0.01
tblVehicleEF	LDT1	0.06	0.13
tblVehicleEF	LDT1	0.00	1.85
tblVehicleEF	LDT1	1.24	0.04
tblVehicleEF	LDT1	1.91	0.00
tblVehicleEF	LDT1	0.09	0.19
tblVehicleEF	LDT1	0.24	0.48
tblVehicleEF	LDT1	0.04	9.3010e-003
tblVehicleEF	LDT1	2.0940e-003	2.8880e-003
tblVehicleEF	LDT1	2.4540e-003	3.4320e-003
tblVehicleEF	LDT1	0.16	3.44
tblVehicleEF	LDT1	0.03	0.05
tblVehicleEF	LDT1	0.31	0.71
tblVehicleEF	LDT1	0.16	3.44
tblVehicleEF	LDT1	0.04	0.07
tblVehicleEF	LDT1	0.34	0.77
tblVehicleEF	LDT1	5.7180e-003	0.01
tblVehicleEF	LDT1	0.08	0.11
tblVehicleEF	LDT1	0.00	2.33
tblVehicleEF	LDT1	1.10	0.04
tblVehicleEF	LDT1	2.50	0.00
tblVehicleEF	LDT1	0.10	0.16
tblVehicleEF	LDT1	0.27	0.42
tblVehicleEF	LDT1	0.04	9.3010e-003
tblVehicleEF	LDT1	2.0940e-003	2.8880e-003

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tblVehicleEF	LDT1	2.4540e-003	3.4320e-003
tblVehicleEF	LDT1	0.09	4.24
tblVehicleEF	LDT1	0.03	0.05
tblVehicleEF	LDT1	0.38	0.58
tblVehicleEF	LDT1	0.09	4.24
tblVehicleEF	LDT1	0.04	0.07
tblVehicleEF	LDT1	0.42	0.64
tblVehicleEF	LDT2	3.5940e-003	4.1010e-003
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.00	0.95
tblVehicleEF	LDT2	0.78	0.03
tblVehicleEF	LDT2	2.66	0.00
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.27	0.36
tblVehicleEF	LDT2	0.04	8.8770e-003
tblVehicleEF	LDT2	1.5050e-003	1.7820e-003
tblVehicleEF	LDT2	1.7240e-003	2.1370e-003
tblVehicleEF	LDT2	0.06	1.47
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.30	0.40
tblVehicleEF	LDT2	0.06	1.47
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.33	0.44
tblVehicleEF	LDT2	3.8950e-003	4.0470e-003
tblVehicleEF	LDT2	0.06	0.09
tblVehicleEF	LDT2	0.00	0.91
tblVehicleEF	LDT2	0.87	0.03
tblVehicleEF	LDT2	2.19	0.00
tblVehicleEF	LDT2	0.06	0.08

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tblVehicleEF	LDT2	0.25	0.37
tblVehicleEF	LDT2	0.04	8.8770e-003
tblVehicleEF	LDT2	1.5050e-003	1.7820e-003
tblVehicleEF	LDT2	1.7240e-003	2.1370e-003
tblVehicleEF	LDT2	0.09	1.46
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.26	0.42
tblVehicleEF	LDT2	0.09	1.46
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.29	0.46
tblVehicleEF	LDT2	3.5220e-003	4.2760e-003
tblVehicleEF	LDT2	0.07	0.08
tblVehicleEF	LDT2	0.00	1.16
tblVehicleEF	LDT2	0.76	0.03
tblVehicleEF	LDT2	2.86	0.00
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.28	0.32
tblVehicleEF	LDT2	0.04	8.8770e-003
tblVehicleEF	LDT2	1.5050e-003	1.7820e-003
tblVehicleEF	LDT2	1.7240e-003	2.1370e-003
tblVehicleEF	LDT2	0.05	1.75
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.32	0.35
tblVehicleEF	LDT2	0.05	1.75
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.35	0.38
tblVehicleEF	LHD1	4.6580e-003	0.07
tblVehicleEF	LHD1	9.0720e-003	0.01
tblVehicleEF	LHD1	0.01	0.02

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tblVehicleEF	LHD1	0.17	1.02
tblVehicleEF	LHD1	0.84	0.09
tblVehicleEF	LHD1	0.96	2.57
tblVehicleEF	LHD1	0.07	0.92
tblVehicleEF	LHD1	1.05	1.03
tblVehicleEF	LHD1	0.29	0.38
tblVehicleEF	LHD1	9.6900e-004	0.01
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	9.9790e-003	9.6600e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	2.3500e-004	2.2300e-004
tblVehicleEF	LHD1	1.8170e-003	1.84
tblVehicleEF	LHD1	0.02	0.30
tblVehicleEF	LHD1	0.11	0.12
tblVehicleEF	LHD1	0.07	0.10
tblVehicleEF	LHD1	1.8170e-003	1.84
tblVehicleEF	LHD1	0.03	0.42
tblVehicleEF	LHD1	0.13	0.15
tblVehicleEF	LHD1	0.07	0.11
tblVehicleEF	LHD1	4.6680e-003	0.07
tblVehicleEF	LHD1	9.2260e-003	0.01
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.17	1.01
tblVehicleEF	LHD1	0.85	0.09
tblVehicleEF	LHD1	0.91	2.57
tblVehicleEF	LHD1	0.07	0.92
tblVehicleEF	LHD1	1.01	1.03
tblVehicleEF	LHD1	0.27	0.39
tblVehicleEF	LHD1	9.6900e-004	0.01

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tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	9.9790e-003	9.6600e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	2.3500e-004	2.2300e-004
tblVehicleEF	LHD1	2.6280e-003	1.80
tblVehicleEF	LHD1	0.02	0.30
tblVehicleEF	LHD1	0.11	0.12
tblVehicleEF	LHD1	0.06	0.10
tblVehicleEF	LHD1	2.6280e-003	1.80
tblVehicleEF	LHD1	0.03	0.42
tblVehicleEF	LHD1	0.13	0.15
tblVehicleEF	LHD1	0.07	0.11
tblVehicleEF	LHD1	4.6540e-003	0.07
tblVehicleEF	LHD1	9.0050e-003	0.01
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	0.17	1.04
tblVehicleEF	LHD1	0.83	0.09
tblVehicleEF	LHD1	0.98	2.57
tblVehicleEF	LHD1	0.07	0.92
tblVehicleEF	LHD1	1.04	0.99
tblVehicleEF	LHD1	0.29	0.36
tblVehicleEF	LHD1	9.6900e-004	0.01
tblVehicleEF	LHD1	0.08	0.08
tblVehicleEF	LHD1	9.9790e-003	9.6600e-003
tblVehicleEF	LHD1	0.01	0.02
tblVehicleEF	LHD1	2.3500e-004	2.2300e-004
tblVehicleEF	LHD1	1.6780e-003	2.16
tblVehicleEF	LHD1	0.02	0.30
tblVehicleEF	LHD1	0.11	0.12

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tblVehicleEF	LHD1	0.07	0.10
tblVehicleEF	LHD1	1.6780e-003	2.16
tblVehicleEF	LHD1	0.03	0.42
tblVehicleEF	LHD1	0.13	0.15
tblVehicleEF	LHD1	0.08	0.11
tblVehicleEF	LHD2	3.1630e-003	0.04
tblVehicleEF	LHD2	7.0780e-003	8.1910e-003
tblVehicleEF	LHD2	8.1370e-003	0.01
tblVehicleEF	LHD2	0.14	0.66
tblVehicleEF	LHD2	0.64	0.13
tblVehicleEF	LHD2	0.58	1.85
tblVehicleEF	LHD2	0.10	1.41
tblVehicleEF	LHD2	1.03	1.12
tblVehicleEF	LHD2	0.18	0.21
tblVehicleEF	LHD2	1.4140e-003	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.2200e-004	9.4000e-005
tblVehicleEF	LHD2	9.0800e-004	0.89
tblVehicleEF	LHD2	0.02	0.22
tblVehicleEF	LHD2	0.11	0.14
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	9.0800e-004	0.89
tblVehicleEF	LHD2	0.02	0.29
tblVehicleEF	LHD2	0.13	0.16
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	3.1690e-003	0.04
tblVehicleEF	LHD2	7.1360e-003	8.1630e-003

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tblVehicleEF	LHD2	7.8000e-003	0.01
tblVehicleEF	LHD2	0.14	0.65
tblVehicleEF	LHD2	0.65	0.13
tblVehicleEF	LHD2	0.55	1.85
tblVehicleEF	LHD2	0.10	1.41
tblVehicleEF	LHD2	0.99	1.11
tblVehicleEF	LHD2	0.17	0.22
tblVehicleEF	LHD2	1.4140e-003	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.2200e-004	9.4000e-005
tblVehicleEF	LHD2	1.3170e-003	0.87
tblVehicleEF	LHD2	0.02	0.22
tblVehicleEF	LHD2	0.11	0.14
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	1.3170e-003	0.87
tblVehicleEF	LHD2	0.02	0.29
tblVehicleEF	LHD2	0.13	0.16
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	LHD2	3.1600e-003	0.04
tblVehicleEF	LHD2	7.0520e-003	8.2530e-003
tblVehicleEF	LHD2	8.2880e-003	0.01
tblVehicleEF	LHD2	0.14	0.66
tblVehicleEF	LHD2	0.64	0.13
tblVehicleEF	LHD2	0.59	1.85
tblVehicleEF	LHD2	0.10	1.41
tblVehicleEF	LHD2	1.02	1.07
tblVehicleEF	LHD2	0.18	0.20

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tblVehicleEF	LHD2	1.4140e-003	0.02
tblVehicleEF	LHD2	0.09	0.09
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.02	0.03
tblVehicleEF	LHD2	1.2200e-004	9.4000e-005
tblVehicleEF	LHD2	8.2300e-004	1.04
tblVehicleEF	LHD2	0.02	0.22
tblVehicleEF	LHD2	0.11	0.14
tblVehicleEF	LHD2	0.04	0.05
tblVehicleEF	LHD2	8.2300e-004	1.04
tblVehicleEF	LHD2	0.02	0.29
tblVehicleEF	LHD2	0.13	0.16
tblVehicleEF	LHD2	0.04	0.06
tblVehicleEF	MCY	0.36	0.21
tblVehicleEF	MCY	0.24	0.18
tblVehicleEF	MCY	0.00	14.44
tblVehicleEF	MCY	20.36	8.7400e-003
tblVehicleEF	MCY	8.62	0.00
tblVehicleEF	MCY	1.16	0.61
tblVehicleEF	MCY	0.27	0.14
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0970e-003	2.3570e-003
tblVehicleEF	MCY	2.9890e-003	3.5430e-003
tblVehicleEF	MCY	0.93	4.07
tblVehicleEF	MCY	2.43	1.42
tblVehicleEF	MCY	1.86	1.34
tblVehicleEF	MCY	0.93	4.07
tblVehicleEF	MCY	3.00	1.71
tblVehicleEF	MCY	2.02	1.46

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tblVehicleEF	MCY	0.35	0.21
tblVehicleEF	MCY	0.21	0.19
tblVehicleEF	MCY	0.00	14.65
tblVehicleEF	MCY	19.39	8.7400e-003
tblVehicleEF	MCY	7.73	0.00
tblVehicleEF	MCY	1.04	0.62
tblVehicleEF	MCY	0.25	0.15
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0970e-003	2.3570e-003
tblVehicleEF	MCY	2.9890e-003	3.5430e-003
tblVehicleEF	MCY	1.51	4.02
tblVehicleEF	MCY	2.35	1.44
tblVehicleEF	MCY	1.61	1.43
tblVehicleEF	MCY	1.51	4.02
tblVehicleEF	MCY	2.91	1.72
tblVehicleEF	MCY	1.75	1.55
tblVehicleEF	MCY	0.36	0.21
tblVehicleEF	MCY	0.26	0.16
tblVehicleEF	MCY	0.00	14.19
tblVehicleEF	MCY	21.03	8.7400e-003
tblVehicleEF	MCY	9.08	0.00
tblVehicleEF	MCY	1.17	0.55
tblVehicleEF	MCY	0.27	0.13
tblVehicleEF	MCY	0.01	0.01
tblVehicleEF	MCY	2.0970e-003	2.3570e-003
tblVehicleEF	MCY	2.9890e-003	3.5430e-003
tblVehicleEF	MCY	0.85	5.47
tblVehicleEF	MCY	2.47	1.40
tblVehicleEF	MCY	1.98	1.16

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tblVehicleEF	MCY	0.85	5.47
tblVehicleEF	MCY	3.05	1.68
tblVehicleEF	MCY	2.15	1.26
tblVehicleEF	MDV	4.0850e-003	5.5320e-003
tblVehicleEF	MDV	0.08	0.11
tblVehicleEF	MDV	0.00	1.11
tblVehicleEF	MDV	0.82	0.03
tblVehicleEF	MDV	2.97	0.00
tblVehicleEF	MDV	0.08	0.12
tblVehicleEF	MDV	0.32	0.47
tblVehicleEF	MDV	0.04	9.0550e-003
tblVehicleEF	MDV	1.5940e-003	1.9120e-003
tblVehicleEF	MDV	1.8290e-003	2.2680e-003
tblVehicleEF	MDV	0.07	1.82
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.37	0.55
tblVehicleEF	MDV	0.07	1.82
tblVehicleEF	MDV	0.02	0.03
tblVehicleEF	MDV	0.40	0.60
tblVehicleEF	MDV	4.4250e-003	5.4630e-003
tblVehicleEF	MDV	0.07	0.11
tblVehicleEF	MDV	0.00	1.07
tblVehicleEF	MDV	0.91	0.03
tblVehicleEF	MDV	2.45	0.00
tblVehicleEF	MDV	0.07	0.12
tblVehicleEF	MDV	0.29	0.48
tblVehicleEF	MDV	0.04	9.0550e-003
tblVehicleEF	MDV	1.5940e-003	1.9120e-003
tblVehicleEF	MDV	1.8290e-003	2.2680e-003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	MDV	0.10	1.80
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.32	0.58
tblVehicleEF	MDV	0.10	1.80
tblVehicleEF	MDV	0.03	0.03
tblVehicleEF	MDV	0.35	0.63
tblVehicleEF	MDV	4.0050e-003	5.7620e-003
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.00	1.35
tblVehicleEF	MDV	0.80	0.03
tblVehicleEF	MDV	3.20	0.00
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.33	0.42
tblVehicleEF	MDV	0.04	9.0550e-003
tblVehicleEF	MDV	1.5940e-003	1.9120e-003
tblVehicleEF	MDV	1.8290e-003	2.2680e-003
tblVehicleEF	MDV	0.05	2.12
tblVehicleEF	MDV	0.02	0.02
tblVehicleEF	MDV	0.39	0.48
tblVehicleEF	MDV	0.05	2.12
tblVehicleEF	MDV	0.02	0.04
tblVehicleEF	MDV	0.43	0.52
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.00	1.64
tblVehicleEF	MH	1.44	0.07
tblVehicleEF	MH	2.11	0.00
tblVehicleEF	MH	1.64	1.70
tblVehicleEF	MH	0.24	0.29

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tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	2.6600e-004	3.1400e-004
tblVehicleEF	MH	0.80	3.43
tblVehicleEF	MH	0.09	0.10
tblVehicleEF	MH	0.10	0.11
tblVehicleEF	MH	0.80	3.43
tblVehicleEF	MH	0.12	0.13
tblVehicleEF	MH	0.11	0.12
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.02	0.03
tblVehicleEF	MH	0.00	1.61
tblVehicleEF	MH	1.48	0.07
tblVehicleEF	MH	1.98	0.00
tblVehicleEF	MH	1.56	1.69
tblVehicleEF	MH	0.23	0.30
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	2.6600e-004	3.1400e-004
tblVehicleEF	MH	1.10	3.35
tblVehicleEF	MH	0.09	0.10
tblVehicleEF	MH	0.09	0.11
tblVehicleEF	MH	1.10	3.35
tblVehicleEF	MH	0.12	0.13
tblVehicleEF	MH	0.10	0.13
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.02	0.02

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tblVehicleEF	MH	0.00	1.69
tblVehicleEF	MH	1.42	0.07
tblVehicleEF	MH	2.18	0.00
tblVehicleEF	MH	1.63	1.61
tblVehicleEF	MH	0.25	0.28
tblVehicleEF	MH	0.13	0.04
tblVehicleEF	MH	0.01	0.01
tblVehicleEF	MH	0.03	0.04
tblVehicleEF	MH	2.6600e-004	3.1400e-004
tblVehicleEF	MH	0.82	4.14
tblVehicleEF	MH	0.09	0.10
tblVehicleEF	MH	0.10	0.11
tblVehicleEF	MH	0.82	4.14
tblVehicleEF	MH	0.11	0.13
tblVehicleEF	MH	0.11	0.12
tblVehicleEF	MHD	4.0650e-003	0.28
tblVehicleEF	MHD	2.3930e-003	0.02
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.42	0.57
tblVehicleEF	MHD	0.31	0.19
tblVehicleEF	MHD	1.27	9.23
tblVehicleEF	MHD	0.50	11.29
tblVehicleEF	MHD	1.40	1.19
tblVehicleEF	MHD	1.63	1.36
tblVehicleEF	MHD	4.7800e-004	0.03
tblVehicleEF	MHD	0.13	0.05
tblVehicleEF	MHD	6.6580e-003	0.01
tblVehicleEF	MHD	1.3400e-004	1.2400e-004
tblVehicleEF	MHD	4.7000e-004	0.66

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tblVehicleEF	MHD	0.02	0.41
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	4.7000e-004	0.66
tblVehicleEF	MHD	0.03	0.75
tblVehicleEF	MHD	0.03	0.07
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	3.8640e-003	0.28
tblVehicleEF	MHD	2.4460e-003	0.02
tblVehicleEF	MHD	0.01	0.01
tblVehicleEF	MHD	0.36	0.56
tblVehicleEF	MHD	0.31	0.19
tblVehicleEF	MHD	1.20	10.68
tblVehicleEF	MHD	0.50	11.61
tblVehicleEF	MHD	1.34	1.19
tblVehicleEF	MHD	1.63	1.36
tblVehicleEF	MHD	4.0600e-004	0.03
tblVehicleEF	MHD	0.13	0.05
tblVehicleEF	MHD	6.6580e-003	0.01
tblVehicleEF	MHD	1.3400e-004	1.2400e-004
tblVehicleEF	MHD	6.9200e-004	0.66
tblVehicleEF	MHD	0.02	0.42
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	6.9200e-004	0.66
tblVehicleEF	MHD	0.03	0.77
tblVehicleEF	MHD	0.03	0.07
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	MHD	4.3540e-003	0.28

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tblVehicleEF	MHD	2.3680e-003	0.02
tblVehicleEF	MHD	0.01	9.5970e-003
tblVehicleEF	MHD	0.50	0.58
tblVehicleEF	MHD	0.30	0.19
tblVehicleEF	MHD	1.31	8.20
tblVehicleEF	MHD	0.51	11.07
tblVehicleEF	MHD	1.39	1.14
tblVehicleEF	MHD	1.64	1.35
tblVehicleEF	MHD	5.7700e-004	0.02
tblVehicleEF	MHD	0.13	0.05
tblVehicleEF	MHD	6.6580e-003	0.01
tblVehicleEF	MHD	1.3400e-004	1.2400e-004
tblVehicleEF	MHD	4.3200e-004	0.81
tblVehicleEF	MHD	0.02	0.40
tblVehicleEF	MHD	0.02	0.05
tblVehicleEF	MHD	0.06	0.05
tblVehicleEF	MHD	4.3200e-004	0.81
tblVehicleEF	MHD	0.03	0.73
tblVehicleEF	MHD	0.02	0.07
tblVehicleEF	MHD	0.06	0.06
tblVehicleEF	OBUS	8.7080e-003	0.34
tblVehicleEF	OBUS	9.7640e-003	0.05
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.59	1.55
tblVehicleEF	OBUS	1.09	0.17
tblVehicleEF	OBUS	2.71	10.86
tblVehicleEF	OBUS	0.32	6.81
tblVehicleEF	OBUS	1.24	1.19
tblVehicleEF	OBUS	0.75	0.91

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tblVehicleEF	OBUS	1.0700e-004	9.1970e-003
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	7.2660e-003	0.02
tblVehicleEF	OBUS	2.5600e-004	1.9700e-004
tblVehicleEF	OBUS	2.0590e-003	1.78
tblVehicleEF	OBUS	0.05	0.89
tblVehicleEF	OBUS	0.05	0.09
tblVehicleEF	OBUS	0.13	0.11
tblVehicleEF	OBUS	2.0590e-003	1.78
tblVehicleEF	OBUS	0.07	1.35
tblVehicleEF	OBUS	0.08	0.17
tblVehicleEF	OBUS	0.14	0.12
tblVehicleEF	OBUS	8.7890e-003	0.34
tblVehicleEF	OBUS	0.01	0.05
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.58	1.54
tblVehicleEF	OBUS	1.12	0.17
tblVehicleEF	OBUS	2.54	11.05
tblVehicleEF	OBUS	0.30	7.20
tblVehicleEF	OBUS	1.18	1.19
tblVehicleEF	OBUS	0.74	0.91
tblVehicleEF	OBUS	9.5000e-005	0.01
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	7.2660e-003	0.02
tblVehicleEF	OBUS	2.5600e-004	1.9700e-004
tblVehicleEF	OBUS	2.8930e-003	1.80
tblVehicleEF	OBUS	0.05	0.85
tblVehicleEF	OBUS	0.05	0.09
tblVehicleEF	OBUS	0.12	0.11

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	OBUS	2.8930e-003	1.80
tblVehicleEF	OBUS	0.07	1.31
tblVehicleEF	OBUS	0.08	0.17
tblVehicleEF	OBUS	0.13	0.12
tblVehicleEF	OBUS	8.6110e-003	0.34
tblVehicleEF	OBUS	9.6490e-003	0.05
tblVehicleEF	OBUS	0.02	0.02
tblVehicleEF	OBUS	0.60	1.58
tblVehicleEF	OBUS	1.08	0.17
tblVehicleEF	OBUS	2.80	10.72
tblVehicleEF	OBUS	0.34	6.52
tblVehicleEF	OBUS	1.24	1.13
tblVehicleEF	OBUS	0.76	0.90
tblVehicleEF	OBUS	1.2400e-004	7.8870e-003
tblVehicleEF	OBUS	0.13	0.05
tblVehicleEF	OBUS	7.2660e-003	0.02
tblVehicleEF	OBUS	2.5600e-004	1.9700e-004
tblVehicleEF	OBUS	2.0190e-003	2.14
tblVehicleEF	OBUS	0.05	0.91
tblVehicleEF	OBUS	0.05	0.10
tblVehicleEF	OBUS	0.13	0.10
tblVehicleEF	OBUS	2.0190e-003	2.14
tblVehicleEF	OBUS	0.07	1.38
tblVehicleEF	OBUS	0.07	0.17
tblVehicleEF	OBUS	0.14	0.11
tblVehicleEF	SBUS	0.03	0.70
tblVehicleEF	SBUS	9.4420e-003	0.03
tblVehicleEF	SBUS	2.7370e-003	0.03
tblVehicleEF	SBUS	1.26	1.35

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	SBUS	0.75	0.10
tblVehicleEF	SBUS	0.43	23.05
tblVehicleEF	SBUS	4.02	21.45
tblVehicleEF	SBUS	7.31	5.34
tblVehicleEF	SBUS	0.63	0.42
tblVehicleEF	SBUS	5.1430e-003	0.03
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	3.3000e-005	2.0900e-004
tblVehicleEF	SBUS	4.9500e-004	0.96
tblVehicleEF	SBUS	0.13	2.74
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.15
tblVehicleEF	SBUS	4.9500e-004	0.96
tblVehicleEF	SBUS	0.18	4.06
tblVehicleEF	SBUS	0.15	0.16
tblVehicleEF	SBUS	0.02	0.16
tblVehicleEF	SBUS	0.03	0.70
tblVehicleEF	SBUS	9.5710e-003	0.03
tblVehicleEF	SBUS	2.3800e-003	0.03
tblVehicleEF	SBUS	1.21	1.34
tblVehicleEF	SBUS	0.77	0.10
tblVehicleEF	SBUS	0.34	23.38
tblVehicleEF	SBUS	4.13	20.71
tblVehicleEF	SBUS	7.04	5.32
tblVehicleEF	SBUS	0.63	0.42
tblVehicleEF	SBUS	4.3420e-003	0.03
tblVehicleEF	SBUS	0.74	0.04

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	3.3000e-005	2.0900e-004
tblVehicleEF	SBUS	6.9800e-004	0.97
tblVehicleEF	SBUS	0.13	2.74
tblVehicleEF	SBUS	0.13	0.11
tblVehicleEF	SBUS	0.01	0.16
tblVehicleEF	SBUS	6.9800e-004	0.97
tblVehicleEF	SBUS	0.18	4.06
tblVehicleEF	SBUS	0.15	0.16
tblVehicleEF	SBUS	0.02	0.17
tblVehicleEF	SBUS	0.03	0.70
tblVehicleEF	SBUS	9.3810e-003	0.03
tblVehicleEF	SBUS	2.9140e-003	0.02
tblVehicleEF	SBUS	1.32	1.38
tblVehicleEF	SBUS	0.75	0.10
tblVehicleEF	SBUS	0.48	22.81
tblVehicleEF	SBUS	3.87	21.99
tblVehicleEF	SBUS	7.28	5.12
tblVehicleEF	SBUS	0.63	0.41
tblVehicleEF	SBUS	6.2490e-003	0.02
tblVehicleEF	SBUS	0.74	0.04
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.04	0.03
tblVehicleEF	SBUS	3.3000e-005	2.0900e-004
tblVehicleEF	SBUS	5.1300e-004	1.18
tblVehicleEF	SBUS	0.13	2.74
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.13

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	SBUS	5.1300e-004	1.18
tblVehicleEF	SBUS	0.18	4.06
tblVehicleEF	SBUS	0.15	0.16
tblVehicleEF	SBUS	0.02	0.14
tblVehicleEF	UBUS	4.89	2.14
tblVehicleEF	UBUS	0.01	6.5380e-003
tblVehicleEF	UBUS	0.00	30.35
tblVehicleEF	UBUS	38.17	0.87
tblVehicleEF	UBUS	1.23	0.00
tblVehicleEF	UBUS	0.40	0.32
tblVehicleEF	UBUS	0.13	0.06
tblVehicleEF	UBUS	0.07	0.11
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	3.0810e-003	2.9200e-004
tblVehicleEF	UBUS	1.6800e-004	1.7000e-005
tblVehicleEF	UBUS	4.8800e-004	0.07
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	4.8800e-004	0.07
tblVehicleEF	UBUS	5.00	2.19
tblVehicleEF	UBUS	0.06	0.03
tblVehicleEF	UBUS	4.89	2.14
tblVehicleEF	UBUS	0.01	6.7750e-003
tblVehicleEF	UBUS	0.00	30.34
tblVehicleEF	UBUS	38.17	0.87
tblVehicleEF	UBUS	1.06	0.00
tblVehicleEF	UBUS	0.40	0.32
tblVehicleEF	UBUS	0.13	0.07
tblVehicleEF	UBUS	0.07	0.11

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	3.0810e-003	2.9200e-004
tblVehicleEF	UBUS	1.6800e-004	1.7000e-005
tblVehicleEF	UBUS	7.0800e-004	0.07
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	0.05	0.03
tblVehicleEF	UBUS	7.0800e-004	0.07
tblVehicleEF	UBUS	5.00	2.19
tblVehicleEF	UBUS	0.06	0.03
tblVehicleEF	UBUS	4.89	2.14
tblVehicleEF	UBUS	0.02	6.0220e-003
tblVehicleEF	UBUS	0.00	30.35
tblVehicleEF	UBUS	38.17	0.87
tblVehicleEF	UBUS	1.31	0.00
tblVehicleEF	UBUS	0.40	0.32
tblVehicleEF	UBUS	0.14	0.06
tblVehicleEF	UBUS	0.07	0.11
tblVehicleEF	UBUS	0.03	0.03
tblVehicleEF	UBUS	3.0810e-003	2.9200e-004
tblVehicleEF	UBUS	1.6800e-004	1.7000e-005
tblVehicleEF	UBUS	4.5000e-004	0.10
tblVehicleEF	UBUS	0.07	0.03
tblVehicleEF	UBUS	0.06	0.02
tblVehicleEF	UBUS	4.5000e-004	0.10
tblVehicleEF	UBUS	5.00	2.19
tblVehicleEF	UBUS	0.07	0.02
tblVehicleTrips	ST_TR	8.57	50.00
tblVehicleTrips	SU_TR	1.42	50.00
tblVehicleTrips	WD_TR	34.80	50.00

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**2.0 Emissions Summary****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													69.8030	0.0187	8.9000e-004	70.5371
Maximum													69.8030	0.0187	8.9000e-004	70.5371

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													69.8029	0.0187	8.9000e-004	70.5370
Maximum													69.8029	0.0187	8.9000e-004	70.5370

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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													1.1400e-003	0.0000	0.0000	1.2100e-003
Energy													25.8707	2.1000e-004	1.5000e-004	25.9212
Mobile													256.6223	0.0225	0.0129	261.0134
Waste													16.9903	1.0041	0.0000	42.0929
Water													2.7020	0.0317	7.5000e-004	3.7173
Total													302.1865	1.0585	0.0138	332.7459

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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													1.1400e-003	0.0000	0.0000	1.2100e-003
Energy													25.8707	2.1000e-004	1.5000e-004	25.9212
Mobile													256.6223	0.0225	0.0129	261.0134
Waste													16.9903	1.0041	0.0000	42.0929
Water													2.7020	0.0317	7.5000e-004	3.7173
Total													302.1865	1.0585	0.0138	332.7459

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

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2022	1/14/2022	5	10	
2	Site Preparation	Site Preparation	1/1/2022	1/3/2022	5	1	
3	Grading	Grading	1/15/2022	1/18/2022	5	2	

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4	Building Construction	Building Construction	1/19/2022	6/7/2022	5	100
5	Paving	Paving	6/8/2022	6/14/2022	5	5
6	Architectural Coating	Architectural Coating	6/15/2022	6/21/2022	5	5

Acres of Grading (Site Preparation Phase): 0.5**Acres of Grading (Grading Phase): 1.5****Acres of Paving: 0.5****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 11,628; Non-Residential Outdoor: 3,876; Striped Parking Area: 1,344 (Architectural Coating – sqft)****OffRoad Equipment**

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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	12.00	5.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	2.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction**3.2 Demolition - 2022****Unmitigated Construction On-Site**

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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.2 Demolition - 2022****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													0.0000	0.0000	0.0000	0.0000
Worker													0.3276	1.0000e-005	1.0000e-005	0.3307
Total													0.3276	1.0000e-005	1.0000e-005	0.3307

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													5.2068	9.6000e-004	0.0000	5.2308
Total													5.2068	9.6000e-004	0.0000	5.2308

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3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													0.0000	0.0000	0.0000	0.0000
Worker													0.3276	1.0000e-005	1.0000e-005	0.3307
Total													0.3276	1.0000e-005	1.0000e-005	0.3307

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust													0.0000	0.0000	0.0000	0.0000
Off-Road													0.4275	1.4000e-004	0.0000	0.4310
Total													0.4275	1.4000e-004	0.0000	0.4310

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.3 Site Preparation - 2022****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													0.0000	0.0000	0.0000	0.0000
Worker													0.0164	0.0000	0.0000	0.0165
Total													0.0164	0.0000	0.0000	0.0165

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													0.0000	0.0000	0.0000	0.0000
Off-Road													0.4275	1.4000e-004	0.0000	0.4310
Total													0.4275	1.4000e-004	0.0000	0.4310

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.3 Site Preparation - 2022****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													0.0000	0.0000	0.0000	0.0000
Worker													0.0164	0.0000	0.0000	0.0165
Total													0.0164	0.0000	0.0000	0.0165

3.4 Grading - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust													0.0000	0.0000	0.0000	0.0000
Off-Road													1.2381	4.0000e-004	0.0000	1.2482
Total													1.2381	4.0000e-004	0.0000	1.2482

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.4 Grading - 2022****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													0.0000	0.0000	0.0000	0.0000
Worker													0.0524	0.0000	0.0000	0.0529
Total													0.0524	0.0000	0.0000	0.0529

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													0.0000	0.0000	0.0000	0.0000
Off-Road													1.2381	4.0000e-004	0.0000	1.2482
Total													1.2381	4.0000e-004	0.0000	1.2482

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.4 Grading - 2022****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													0.0000	0.0000	0.0000	0.0000
Worker													0.0524	0.0000	0.0000	0.0529
Total													0.0524	0.0000	0.0000	0.0529

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road													50.0739	0.0162	0.0000	50.4787
Total													50.0739	0.0162	0.0000	50.4787

Clark Site Plan PDS2020-STP-20-008 - No Mitigation - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.5 Building Construction - 2022****Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													5.2135	1.6000e-004	7.6000e-004	5.4431
Worker													3.9316	1.2000e-004	1.1000e-004	3.9687
Total													9.1451	2.8000e-004	8.7000e-004	9.4119

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													50.0738	0.0162	0.0000	50.4787
Total													50.0738	0.0162	0.0000	50.4787

Clark Site Plan PDS2020-STP-20-008 - No Mitigation - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.5 Building Construction - 2022****Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													5.2135	1.6000e-004	7.6000e-004	5.4431
Worker													3.9316	1.2000e-004	1.1000e-004	3.9687
Total													9.1451	2.8000e-004	8.7000e-004	9.4119

3.6 Paving - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road													2.3492	6.8000e-004	0.0000	2.3663
Paving													0.0000	0.0000	0.0000	0.0000
Total													2.3492	6.8000e-004	0.0000	2.3663

Clark Site Plan PDS2020-STP-20-008 - No Mitigation - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.6 Paving - 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
Vendor													0.0000	0.0000	0.0000	0.0000
Worker													0.2949	1.0000e-005	1.0000e-005	0.2977
Total													0.2949	1.0000e-005	1.0000e-005	0.2977

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road													2.3492	6.8000e-004	0.0000	2.3663
Paving													0.0000	0.0000	0.0000	0.0000
Total													2.3492	6.8000e-004	0.0000	2.3663

Clark Site Plan PDS2020-STP-20-008 - No Mitigation - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.6 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
Vendor													0.0000	0.0000	0.0000	0.0000
Worker													0.2949	1.0000e-005	1.0000e-005	0.2977
Total													0.2949	1.0000e-005	1.0000e-005	0.2977

3.7 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													0.0000	0.0000	0.0000	0.0000
Off-Road													0.6383	4.0000e-005	0.0000	0.6394
Total													0.6383	4.0000e-005	0.0000	0.6394

Clark Site Plan PDS2020-STP-20-008 - No Mitigation - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.7 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
Vendor													0.0000	0.0000	0.0000	0.0000
Worker													0.0328	0.0000	0.0000	0.0331
Total													0.0328	0.0000	0.0000	0.0331

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													0.0000	0.0000	0.0000	0.0000
Off-Road													0.6383	4.0000e-005	0.0000	0.6394
Total													0.6383	4.0000e-005	0.0000	0.6394

Clark Site Plan PDS2020-STP-20-008 - No Mitigation - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**3.7 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
Vendor													0.0000	0.0000	0.0000	0.0000
Worker													0.0328	0.0000	0.0000	0.0331
Total													0.0328	0.0000	0.0000	0.0331

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

Clark Site Plan PDS2020-STP-20-008 - No Mitigation - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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													256.6223	0.0225	0.0129	261.0134
Unmitigated													256.6223	0.0225	0.0129	261.0134

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Medical Office Building	225.00	225.00	225.00	440,381	440,381
Medical Office Building	162.50	162.50	162.50	318,053	318,053
Parking Lot	0.00	0.00	0.00		
Total	387.50	387.50	387.50	758,434	758,434

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Medical Office Building	9.50	7.30	7.30	29.60	51.40	19.00	60	30	10
Medical Office Building	9.50	7.30	7.30	29.60	51.40	19.00	60	30	10
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Medical Office Building	0.553514	0.062792	0.181046	0.120736	0.024419	0.006214	0.008493	0.006184	0.000715	0.000556	0.029185	0.000982	0.005164
Parking Lot	0.553514	0.062792	0.181046	0.120736	0.024419	0.006214	0.008493	0.006184	0.000715	0.000556	0.029185	0.000982	0.005164

Clark Site Plan PDS2020-STP-20-008 - No Mitigation - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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													17.5848	5.0000e-005	0.0000	17.5860
Electricity Unmitigated													17.5848	5.0000e-005	0.0000	17.5860
NaturalGas Mitigated													8.2859	1.6000e-004	1.5000e-004	8.3352
NaturalGas Unmitigated													8.2859	1.6000e-004	1.5000e-004	8.3352

Clark Site Plan PDS2020-STP-20-008 - No Mitigation - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**5.2 Energy by Land Use - NaturalGas****Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Medical Office Building	65177.6													3.4781	7.0000e-005	6.0000e-005	3.4988
Medical Office Building	90094.9													4.8078	9.0000e-005	9.0000e-005	4.8364
Parking Lot	0													0.0000	0.0000	0.0000	0.0000
Total														8.2859	1.6000e-004	1.5000e-004	8.3352

Clark Site Plan PDS2020-STP-20-008 - No Mitigation - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Medical Office Building	65177.6													3.4781	7.0000e-005	6.0000e-005	3.4988
Medical Office Building	90094.9													4.8078	9.0000e-005	9.0000e-005	4.8364
Parking Lot	0													0.0000	0.0000	0.0000	0.0000
Total														8.2859	1.6000e-004	1.5000e-004	8.3352

Clark Site Plan PDS2020-STP-20-008 - No Mitigation - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Medical Office Building	42106.8	6.8463	2.0000e-005	0.0000	6.8468
Medical Office Building	58204.1	9.4637	3.0000e-005	0.0000	9.4643
Parking Lot	7840	1.2747	0.0000	0.0000	1.2748
Total		17.5848	5.0000e-005	0.0000	17.5860

Clark Site Plan PDS2020-STP-20-008 - No Mitigation - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Medical Office Building	42106.8	6.8463	2.0000e-005	0.0000	6.8468
Medical Office Building	58204.1	9.4637	3.0000e-005	0.0000	9.4643
Parking Lot	7840	1.2747	0.0000	0.0000	1.2748
Total		17.5848	5.0000e-005	0.0000	17.5860

6.0 Area Detail**6.1 Mitigation Measures Area**

Use Low VOC Cleaning Supplies

Clark Site Plan PDS2020-STP-20-008 - No Mitigation - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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													1.1400e-003	0.0000	0.0000	1.2100e-003
Unmitigated													1.1400e-003	0.0000	0.0000	1.2100e-003

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating													0.0000	0.0000	0.0000	0.0000
Consumer Products													0.0000	0.0000	0.0000	0.0000
Landscaping													1.1400e-003	0.0000	0.0000	1.2100e-003
Total													1.1400e-003	0.0000	0.0000	1.2100e-003

Clark Site Plan PDS2020-STP-20-008 - No Mitigation - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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													0.0000	0.0000	0.0000	0.0000
Consumer Products													0.0000	0.0000	0.0000	0.0000
Landscaping													1.1400e-003	0.0000	0.0000	1.2100e-003
Total													1.1400e-003	0.0000	0.0000	1.2100e-003

7.0 Water Detail**7.1 Mitigation Measures Water**

Clark Site Plan PDS2020-STP-20-008 - No Mitigation - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.7020	0.0317	7.5000e-004	3.7173
Unmitigated	2.7020	0.0317	7.5000e-004	3.7173

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Medical Office Building	0.972474 / 0.185233	2.7020	0.0317	7.5000e-004	3.7173
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		2.7020	0.0317	7.5000e-004	3.7173

Clark Site Plan PDS2020-STP-20-008 - No Mitigation - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**7.2 Water by Land Use****Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Medical Office Building	0.972474 / 0.185233	2.7020	0.0317	7.5000e-004	3.7173
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		2.7020	0.0317	7.5000e-004	3.7173

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

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	16.9903	1.0041	0.0000	42.0929
Unmitigated	16.9903	1.0041	0.0000	42.0929

Clark Site Plan PDS2020-STP-20-008 - No Mitigation - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Medical Office Building	83.7	16.9903	1.0041	0.0000	42.0929
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		16.9903	1.0041	0.0000	42.0929

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Medical Office Building	83.7	16.9903	1.0041	0.0000	42.0929
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		16.9903	1.0041	0.0000	42.0929

9.0 Operational Offroad

Clark Site Plan PDS2020-STP-20-008 - No Mitigation - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Attachment B

**GHG Reduction Calculations for
Sustainable Design Features**

Solar Panel Installation

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Percent of Electricity Use Generated with Renewable 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													1.7585	0.0000	0.0000	1.7586
Electricity Unmitigated													17.5848	5.0000e-005	0.0000	17.5860
NaturalGas Mitigated													8.2859	1.6000e-004	1.5000e-004	8.3352
NaturalGas Unmitigated													8.2859	1.6000e-004	1.5000e-004	8.3352

Clark Site Plan PDS2020-STP-20-008 - Solar Mitigation - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**5.2 Energy by Land Use - NaturalGas****Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Medical Office Building	65177.6													3.4781	7.0000e-005	6.0000e-005	3.4988
Medical Office Building	90094.9													4.8078	9.0000e-005	9.0000e-005	4.8364
Parking Lot	0													0.0000	0.0000	0.0000	0.0000
Total														8.2859	1.6000e-004	1.5000e-004	8.3352

Clark Site Plan PDS2020-STP-20-008 - Solar Mitigation - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Medical Office Building	65177.6													3.4781	7.0000e-005	6.0000e-005	3.4988
Medical Office Building	90094.9													4.8078	9.0000e-005	9.0000e-005	4.8364
Parking Lot	0													0.0000	0.0000	0.0000	0.0000
Total														8.2859	1.6000e-004	1.5000e-004	8.3352

Clark Site Plan PDS2020-STP-20-008 - Solar Mitigation - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Medical Office Building	42106.8	6.8463	2.0000e-005	0.0000	6.8468
Medical Office Building	58204.1	9.4637	3.0000e-005	0.0000	9.4643
Parking Lot	7840	1.2747	0.0000	0.0000	1.2748
Total		17.5848	5.0000e-005	0.0000	17.5860

Clark Site Plan PDS2020-STP-20-008 - Solar Mitigation - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Medical Office Building	4210.68	0.6846	0.0000	0.0000	0.6847
Medical Office Building	5820.41	0.9464	0.0000	0.0000	0.9464
Parking Lot	784	0.1275	0.0000	0.0000	0.1275
Total		1.7585	0.0000	0.0000	1.7586

6.0 Area Detail**6.1 Mitigation Measures Area**

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use Low VOC Cleaning Supplies

Reduce Outdoor Water Consumption

Clark Site Plan PDS2020-STP-20-008 - MAWA Reduction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.5682	0.0317	7.5000e-004	3.5835
Unmitigated	2.7020	0.0317	7.5000e-004	3.7173

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Medical Office Building	0.972474 / 0.185233	2.7020	0.0317	7.5000e-004	3.7173
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		2.7020	0.0317	7.5000e-004	3.7173

Clark Site Plan PDS2020-STP-20-008 - MAWA Reduction - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**7.2 Water by Land Use****Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Medical Office Building	0.972474 / 0.11114	2.5682	0.0317	7.5000e-004	3.5835
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		2.5682	0.0317	7.5000e-004	3.5835

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

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	16.9903	1.0041	0.0000	42.0929
Unmitigated	16.9903	1.0041	0.0000	42.0929

Low-Flow Water Fixtures

Clark Site Plan PDS2020-STP-20-008 - Efficient Faucets - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.2285	0.0254	6.0000e-004	3.0408
Unmitigated	2.7020	0.0317	7.5000e-004	3.7173

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Medical Office Building	0.972474 / 0.185233	2.7020	0.0317	7.5000e-004	3.7173
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		2.7020	0.0317	7.5000e-004	3.7173

Clark Site Plan PDS2020-STP-20-008 - Efficient Faucets - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**7.2 Water by Land Use****Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Medical Office Building	0.777979 / 0.185233	2.2285	0.0254	6.0000e-004	3.0408
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		2.2285	0.0254	6.0000e-004	3.0408

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

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	16.9903	1.0041	0.0000	42.0929
Unmitigated	16.9903	1.0041	0.0000	42.0929

Energy Efficient Appliances

Clark Site Plan PDS2020-STP-20-008 - Efficient Appliances - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**5.0 Energy Detail**

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive 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													17.4467	5.0000e-005	0.0000	17.4480
Electricity Unmitigated													17.5848	5.0000e-005	0.0000	17.5860
NaturalGas Mitigated													8.2859	1.6000e-004	1.5000e-004	8.3352
NaturalGas Unmitigated													8.2859	1.6000e-004	1.5000e-004	8.3352

Clark Site Plan PDS2020-STP-20-008 - Efficient Appliances - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**5.2 Energy by Land Use - NaturalGas****Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Medical Office Building	65177.6													3.4781	7.0000e-005	6.0000e-005	3.4988
Medical Office Building	90094.9													4.8078	9.0000e-005	9.0000e-005	4.8364
Parking Lot	0													0.0000	0.0000	0.0000	0.0000
Total														8.2859	1.6000e-004	1.5000e-004	8.3352

Clark Site Plan PDS2020-STP-20-008 - Efficient Appliances - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	tons/yr										MT/yr					
Medical Office Building	65177.6													3.4781	7.0000e-005	6.0000e-005	3.4988
Medical Office Building	90094.9													4.8078	9.0000e-005	9.0000e-005	4.8364
Parking Lot	0													0.0000	0.0000	0.0000	0.0000
Total														8.2859	1.6000e-004	1.5000e-004	8.3352

Clark Site Plan PDS2020-STP-20-008 - Efficient Appliances - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Medical Office Building	42106.8	6.8463	2.0000e-005	0.0000	6.8468
Medical Office Building	58204.1	9.4637	3.0000e-005	0.0000	9.4643
Parking Lot	7840	1.2747	0.0000	0.0000	1.2748
Total		17.5848	5.0000e-005	0.0000	17.5860

Clark Site Plan PDS2020-STP-20-008 - Efficient Appliances - San Diego County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Medical Office Building	41750.4	6.7884	2.0000e-005	0.0000	6.7889
Medical Office Building	57711.6	9.3836	3.0000e-005	0.0000	9.3843
Parking Lot	7840	1.2747	0.0000	0.0000	1.2748
Total		17.4467	5.0000e-005	0.0000	17.4480

6.0 Area Detail**6.1 Mitigation Measures Area**

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Use Low VOC Cleaning Supplies

Electric Vehicle Chargers

Clark Site Plan (PDS2020-STP-20-008)		
Estimated GHG Reduction from EV Charging Station Installation		
Variable	Unit	Source
Annual emissions generated from electricity required for one hour of charging (MTCO ₂ e)	0.63	CAP Measure T-3.5
Annual equivalent gasoline emissions per hour of charge (MTCO ₂ e)	2.00	CAP Measure T-3.5
Charging hours for commercial EV	3	Assumption
Annual emissions reduction per charger (MTCO ₂ e)	4.12	Calculated
Total Chargers Installed On-Site	6	Project Description
Estimated Emissions Reduction from EV Charger Installation	24.74	Calculated