

APPENDIX A

AIR QUALITY AND GREENHOUSE GAS EMISSION DATA

MEMORANDUM

To: Hannah Smith, P.E., Kimley-Horn and Associates

From: Elena Ajdari and Ryan Chiene, Kimley-Horn and Associates

Date: February 4, 2022

Subject: Raising Cane's #0624 – Hollywood, CA – Air Quality and Greenhouse Gas Emissions

Purpose

The purpose of this memorandum is to identify the air quality and greenhouse gas (GHG) emissions associated with construction and operations of the proposed Hollywood Raising Cane's Project (project) located within the Hollywood area of the City of Los Angeles, California.

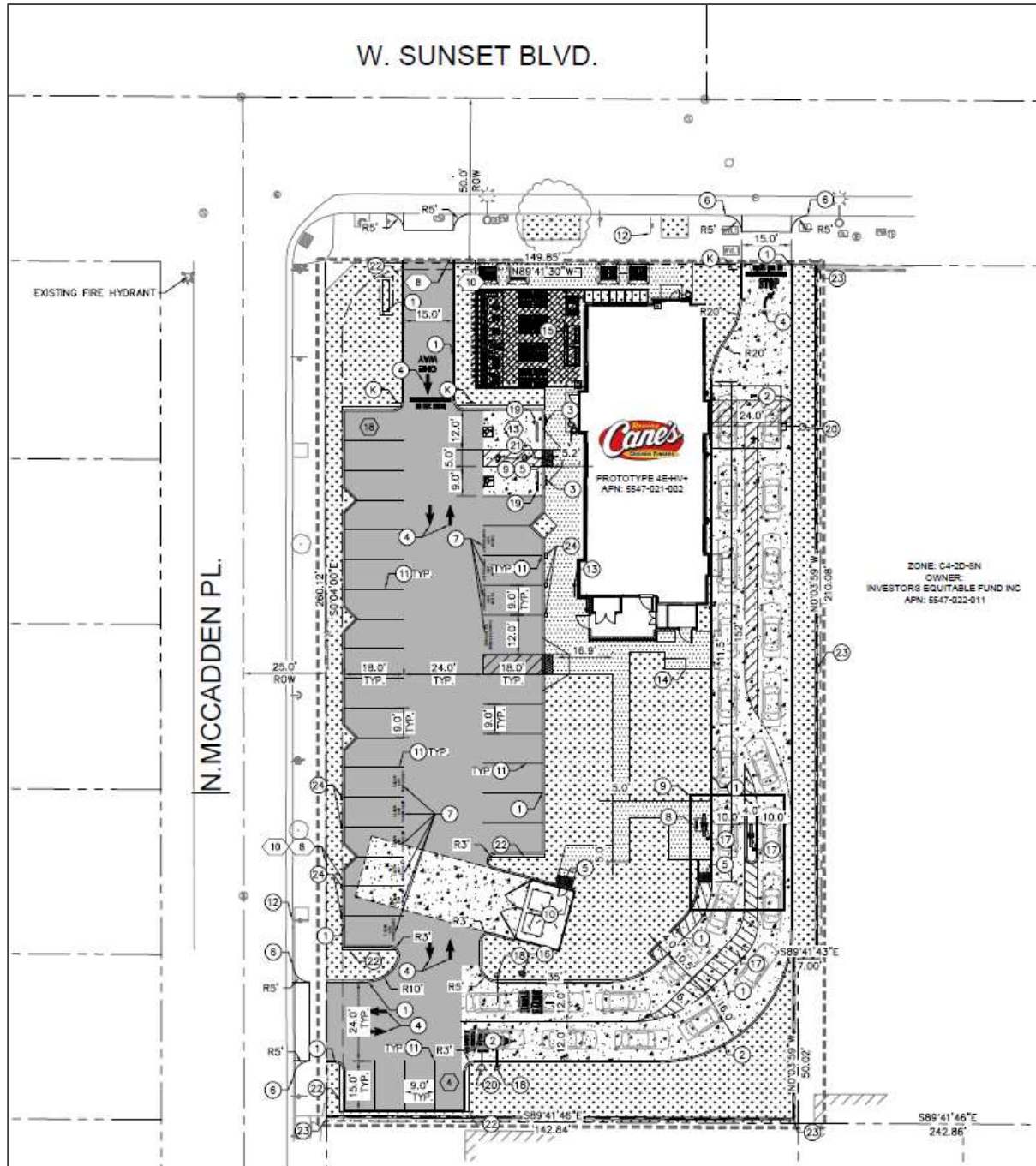
Project Location

The project is generally located along Sunset Boulevard in the central portion of the City of Los Angeles (City) within the Hollywood neighborhood. The project is approximately 0.75-mile southwest of U.S. Route 101 and 4.30 miles north of Interstate 10 (I-10). The project site is specifically located at 6726-6734 Sunset Boulevard (Assessor's Parcel Number [APNs] 5547-022-022 through -024) at the southeast corner of Sunset Boulevard and North McCadden Place on an approximately 0.89-acre lot and is currently an unoccupied commercial building. North McCadden Place and Sunset Boulevard are located to the west and north of the project site, respectively. A neighborhood garden and commercial uses are located to the north; the Hollywood Guest Inn located directly to the east; a single-family residence and the Aloha Suites (a multi-family residential building) are located immediately to the south; and a Chick-fil-A restaurant is located to the west of the project site across the North McCadden Place. Multi-family residential uses are also located directly to the east/southeast of the project site along Leland Way.

Project Description

The proposed project would demolish the existing commercial building and construct a 3,448 square-foot (sf) Raising Cane's restaurant with drive-thru access. Construction is anticipated to begin in June 2022 and last for approximately six months. The proposed project would provide a one-way access driveway along Sunset Boulevard and a two-way access driveway along North McCadden Place in the southwest portion of the site. All necessary utility improvements including water, sewer, and storm drain would be constructed within the property limits. See [Exhibit 1: Site Plan](#) for more details.

Exhibit 1: Site Plan



Air Quality Impacts

South Coast Air Quality Management District Thresholds

The South Coast Air Quality Management District (SCAQMD) CEQA Air Quality Handbook provides significance thresholds for volatile organic compounds (VOC) (also referred to as reactive organic gases [ROG]), nitrogen oxides (NO_x), carbon monoxide (CO), sulfur oxides (SO_x), particulate matter 10 microns or less in diameter (PM₁₀), and particulate matter 2.5 microns or less in diameter (PM_{2.5}). The thresholds apply to both project construction and operation within the SCAQMD jurisdictional boundaries. If the SCAQMD thresholds are exceeded, a potentially significant impact could result. However, ultimately the lead agency determines the thresholds of significance for impacts. If a project proposes development in excess of the established thresholds, as outlined in Table 1: South Coast Air Quality Management District Significance Thresholds, a significant air quality impact may occur, and additional analysis is warranted to fully assess the significance of impacts.

Table 1: South Coast Air Quality Management District Significance Thresholds		
Pollutant	Mass Daily Thresholds (pounds per day)	
	Construction	Operations
Nitrogen Oxides (NO _x)	100	55
Volatile Organic Compounds (VOC) ¹	75	55
Particulate Matter up to 10 Microns (PM ₁₀)	150	150
Particulate Matter up to 2.5 Microns (PM _{2.5})	55	55
Sulphur Oxides (SO _x)	150	150
Carbon Monoxide (CO)	550	550
1. VOCs and reactive organic gases (ROGs) are subsets of organic gases that are emitted from the incomplete combustion of hydrocarbons or other carbon-based fuels. Although they represent slightly different subsets of organic gases, they are used interchangeably for the purposes of this analysis.		
Source: South Coast Air Quality Management District, <i>South Coast AQMD Air Quality Significance Thresholds</i> , April 2019.		

Construction Emissions

Construction associated with the proposed project would generate short-term emissions of criteria air pollutants. The criteria pollutants of primary concern within the project area include ozone-precursor pollutants (i.e., ROG and NO_x), PM₁₀, and PM_{2.5}. Construction-generated emissions are short term and of temporary duration, lasting only as long as construction activities occur, but would be considered a significant air quality impact if the volume of pollutants generated exceeds the SCAQMD's thresholds of significance.

Construction results in the temporary generation of emissions resulting from demolition, site preparation, site grading, road paving, motor vehicle exhaust associated with construction equipment and worker trips, and the movement of construction equipment, especially on unpaved surfaces. Emissions of airborne particulate matter are largely dependent on the amount of ground disturbance associated with site preparation activities as well as weather conditions and the appropriate application of water.

The duration of construction activities for the project is estimated to be approximately six months, beginning in June 2022. Construction-generated emissions associated with the proposed project were calculated using the California Air Resources Board (CARB)-approved California Emissions Estimator Model version 2020.4.0 (CalEEMod), which is designed to model emissions for land use development projects, based on typical construction requirements. See [Appendix A: Air Quality and GHG Data](#) for more information regarding the construction assumptions used in this analysis. Predicted maximum daily construction-generated emissions for the proposed project are identified in [Table 2: Project Construction Emissions](#).

Table 2: Project Construction Emissions						
Construction Year	Emissions (pounds per day)¹					
	ROG	NO_x	CO	SO₂	PM₁₀	PM_{2.5}
2022	3.31	14.81	17.62	0.03	2.92	1.61
SCAQMD Threshold	75	100	550	150	150	55
SCAQMD Threshold Exceeded?	No	No	No	No	No	No
Notes:						
1. SCAQMD Rule 403 Fugitive Dust applied. The Rule 403 reduction/credits include the following: properly maintain mobile and other construction equipment; replace ground cover in disturbed areas quickly; water exposed surfaces three times daily; water all haul roads twice daily; and limit speeds on unpaved roads to 15 miles per hour. Reductions percentages from the SCAQMD CEQA Handbook (Tables XI-A through XI-E) were applied. No mitigation was applied to construction equipment. Refer to Appendix A for Model Data Outputs.						
Source: CalEEMod version 2020.4.0. Refer to Appendix A for model outputs.						

[Table 2](#) shows that construction pollutant emissions would remain below their respective thresholds with implementation of SCAQMD Rule 403 (required for all projects). The project would also be required to comply with SCAQMD Rules 402 and 1113, which prohibit nuisances and limit VOC content in paints, respectively. Compliance with SCAQMD rules 402 and 1113 would further reduce specific construction-related emissions. As shown above, all criteria pollutant emissions would be below their respective thresholds and impacts would be less than significant.

Operational Emissions

Operational emissions are typically associated with mobile sources (i.e., motor vehicle use) and area sources (such as the use of landscape maintenance equipment, hearths, consumer products, and architectural coatings). Energy source emissions would be generated from electricity and natural gas (non-hearth) usage. [Table 3: Operational Emissions](#) summarizes the operational emissions attributable to the proposed project. As shown in [Table 3](#), the project's emissions would not exceed SCAQMD thresholds. Therefore, regional operations emissions would result in a less than significant long-term regional air quality impact.

Table 3: Operational Emissions						
Source	Emissions (pounds per day) ^{1, 2}					
	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}
Summer						
Area	0.09	0.00	0.00	0.00	0.00	0.00
Energy	0.02	0.21	0.18	0	0.02	0.02
Mobile	3.37	2.59	22.24	0.04	3.61	0.98
Mobile (On-Site Drive-Through)	0.02	0.03	0.38	0.00	0.00	0.00
Total	3.5	2.83	22.8	0.04	3.63	1.00
SCAQMD Threshold	55	55	550	150	150	55
SCAQMD Threshold Exceeded?	No	No	No	No	No	No
Winter						
Area	0.09	0.00	0.00	0.00	0.00	0.00
Energy	0.02	0.21	0.18	0.00	0.02	0.02
Mobile	3.26	2.79	22.82	0.04	3.61	0.98
Mobile (On-Site Drive-Through)	0.02	0.03	0.38	0.00	0.00	0.00
Total	3.39	3.03	23.38	0.04	3.63	1.00
SCAQMD Threshold	55	55	550	150	150	55
SCAQMD Threshold Exceeded?	No	No	No	No	No	No
Notes:						
1. Emissions were calculated using the California Emissions Estimator Model version 2020.4.0 (CalEEMod), as recommended by the SCAQMD. Summer and winter maximum daily emissions are reported.						
2. On-site drive through idling emissions were calculated with emissions factors from EMFAC2021.						
Source: CalEEMod version 2020.4.0. Refer to Appendix A for model outputs.						

Localized Construction Impacts

The nearest sensitive receptors to the project site are residential units located adjacent to the east of the project site. To identify impacts to sensitive receptors, the SCAQMD recommends addressing Localized Significance Thresholds (LSTs) for construction. LSTs were developed in response to SCAQMD Governing Boards' Environmental Justice Enhancement Initiative (I-4). The SCAQMD provided the *Final Localized Significance Threshold Methodology* (dated June 2003 [revised 2008]) for guidance. The LST methodology assists lead agencies in analyzing localized impacts associated with project-specific level of proposed projects.

Since CalEEMod calculates construction emissions based on the number of equipment hours and the maximum daily soil disturbance activity possible for each piece of equipment, [Table 4: Equipment-Specific Grading Rates](#) is used to determine the maximum daily disturbed acreage for comparison to LSTs. For this project, the appropriate source receptor area (SRA) for the localized significance thresholds is the Central LA (SRA 1) area since this area includes the project site. LSTs apply to NO_x, CO, PM₁₀, and PM_{2.5}. The SCAQMD produced look-up tables for projects that disturb areas less than or equal to 5 acres in size. Based on the daily equipment modeled in CalEEMod, the project construction is anticipated to disturb approximately 1.5 acres in a single day.

Table 4: Equipment-Specific Grading Rates					
Construction Phase	Equipment Type	Equipment Quantity	Acres Graded per 8-Hour Day	Operating Hours per Day	Acres Graded per Day
Grading	Tractor	1	0.5	8	0.5
	Graders	1	0.5	8	0.5
	Dozers	1	0.5	8	0.5
	Scrapers	0	0	8	0
Total Acres Graded per Day					1.5
Source: CalEEMod version 2020.4.0.					

The SCAQMD’s methodology indicates that “off-site mobile emissions from the project should not be included in the emissions compared to LSTs.” Therefore, for purposes of the construction LST analysis, only emissions included in the CalEEMod “on-site” emissions outputs were considered. LST thresholds are provided for distances to sensitive receptors of 25, 50, 100, 200, and 500 meters. SCAQMD’s LST guidance recommends using the 25-meter threshold for receptors located 25 meters or less from the project site. The nearest sensitive receptor to the project site is the single-family residence located directly to the south of the project site. Therefore, the LSTs for 1.5 acres at 25 meters were used for the construction analysis which is consistent with the SCAQMD LST methodology.

Table 5: Localized Significance of Construction Emissions, presents the results of localized emissions during construction activity. Table 5 shows that the emissions of these pollutants on the peak day of construction would not result in significant concentrations of pollutants at nearby sensitive receptors. Therefore, significant impacts would not occur concerning LSTs during construction activities.

Localized Operational Impacts

According to the SCAQMD localized significance threshold methodology, operational LSTs apply to on-site sources. LSTs for receptors located at 25 meters for SRA 1 were utilized in this analysis. The 1-acre LST threshold was conservatively used for the 0.89-acre project site. The on-site operational emissions were calculated using CalEEMod and are compared to the LST thresholds in Table 6: Localized Significance of Operational Emissions.

The operational emissions shown in Table 6 include all on-site project-related stationary sources (i.e., area, energy, and on-site drive-through sources). Table 6 shows that the project would not generate localized emissions during project operations. Therefore, the project would result in a less than significant impact concerning LSTs during operational activities.

Table 5: Localized Significance of Construction Emissions				
Source/Activity	Emissions (pounds per day) ^{1,2}			
	NO _x	CO	PM ₁₀	PM _{2.5}
Demolition (2022)	6.41	7.47	0.83	0.40
Site Preparation (2022)	6.93	3.96	0.48	0.26
Grading (2022)	12.00	5.94	2.79	1.57
Building Construction (2022)	7.03	7.15	0.37	0.34
Paving (2022)	5.92	7.03	0.30	0.28
Architectural Coating (2022)	1.41	1.81	0.08	0.08
<i>Maximum Daily Emissions</i>	<i>12.00</i>	<i>7.47</i>	<i>2.79</i>	<i>1.57</i>
SCAQMD LST (for 1.5 acres at 25 meters)	91	864	7	4
Maximum Daily Emissions Exceed SCAQMD Threshold?	No	No	No	No
1. CalEEMod version 2020.4.0. Worst-case seasonal maximum daily emissions are reported. 2. SCAQMD Rule 403 Fugitive Dust applied for construction emissions. The Rule 403 reduction/credits include the following: properly maintain mobile and other construction equipment; replace ground cover in disturbed areas quickly; water exposed surfaces three times daily; water all haul roads twice daily; and limit speeds on unpaved roads to 15 miles per hour. Reductions percentages from the SCAQMD CEQA Handbook (Tables XI-A through XI-E) were applied. No mitigation was applied to construction equipment. Refer to Appendix A for Model Data Outputs.				
Source: CalEEMod version 2020.4.0. Refer to Appendix A for model outputs.				

Table 6: Localized Significance of Operational Emissions				
Activity	Emissions (pounds per day) ^{1, 2}			
	NO _x	CO	PM ₁₀	PM _{2.5}
On-Site Emissions (Area and Energy Sources)	0.21	0.18	0.02	0.02
Mobile (On-Site Drive-Through)	0.03	0.38	0.00	0.00
Total	0.24	0.56	0.02	0.02
<i>SCAQMD Localized Screening Threshold (adjusted for 1 acre at 25 meters)</i>	<i>74</i>	<i>680</i>	<i>2</i>	<i>1</i>
Exceed SCAQMD Threshold?	No	No	No	No
1. Emissions were calculated using the California Emissions Estimator Model version 2020.4.0 (CalEEMod), as recommended by the SCAQMD. Worst-case seasonal maximum daily emissions are reported. 2. On-site drive through idling emissions were calculated with emissions factors from EMFAC2021.				
Source: CalEEMod version 2020.4.0. Refer to Appendix A for model outputs.				

Carbon Monoxide Hotspots

An analysis of CO “hot spots” is needed to determine whether the change in the level of service (LOS) of an intersection from the proposed project would have the potential to result in exceedances of the CAAQS or NAAQS. It has long been recognized that CO exceedances are caused by vehicular emissions, primarily when vehicles are idling at intersections. Vehicle emissions standards have become increasingly stringent in the last 20 years. Currently, the CO standard in California is a maximum of 3.4 grams per mile for passenger cars (requirements for certain vehicles are more stringent). With the

turnover of older vehicles, introduction of cleaner fuels, and implementation of control technology on industrial facilities, CO concentrations have steadily declined.

Accordingly, with the steadily decreasing CO emissions from vehicles, even very busy intersections do not result in exceedances of the CO standard. An analysis prepared for CO attainment in the South Coast Air Basin by the SCAQMD can assist in evaluating the potential for CO exceedances. CO attainment was thoroughly analyzed as part of the SCAQMD's 2003 *Air Quality Management Plan*. The Basin was re-designated as attainment in 2007 and is no longer addressed in the SCAQMD's Air Quality Management Plan (AQMP).

The 2003 *Air Quality Management Plan* is the most recent AQMP that addresses CO concentrations. As part of the SCAQMD CO Hotspot analysis, the Wilshire Boulevard/Veteran Avenue intersection, one of the most congested intersections in Southern California with an average daily traffic (ADT) volume of approximately 100,000 vehicles per day, was modeled for CO concentrations. This modeling effort identified a CO concentration high of 4.6 parts per million (ppm), which is well below the 35-ppm federal standard. The proposed project considered herein would not produce the volume of traffic required to generate a CO hot spot in the context of SCAQMD's 2003 CO hot-spot analysis. As the CO hotspots were not experienced at the Wilshire Boulevard/Veteran Avenue intersection even as it accommodates 100,000 vehicles daily, it can be reasonably inferred that CO hotspots would not be experienced at any vicinity intersections from 1,554 daily vehicle trips attributable to the project. Therefore, impacts would be less than significant in this regard.

Greenhouse Gas Emissions

The project would include direct and indirect GHG emissions from project construction and operations. Construction is considered a direct source since these emissions occur at the site. Direct operational-related GHG emissions for the proposed project would include emissions from area and mobile sources, while indirect emissions are from energy consumption, water demand, and solid waste.

Construction GHG Emissions

Construction of the project would result in direct emissions of CO₂, N₂O, and CH₄ from construction equipment, the transport of materials, and construction workers to and from the project site. Construction GHG emissions are typically summed and amortized over the lifetime of the project (assumed to be 30 years), then added to the operational emissions.¹ Total GHG emissions generated during all phases of construction were combined and are presented in Table 7: Construction Greenhouse Gas Emissions. The CalEEMod outputs are contained within Appendix A. As shown in Table 7, the project total construction would result in 89 MTCO₂e (approximately 3 MTCO₂e/year when amortized over 30 years).

¹ The project lifetime is based on the standard 30-year assumption of the South Coast Air Quality Management District (South Coast Air Quality Management District, *Minutes for the GHG CEQA Significance Threshold Stakeholder Working Group #13*, August 26, 2009).

Table 7: Construction Greenhouse Gas Emissions	
Construction	MTCO₂e per Year
Total Construction GHG Emission (2022)	89
30-Year Amortized Construction	3
Source: CalEEMod version 2020.4.0. Refer to Appendix A for model data outputs.	

Operational GHG Emissions

Operational or long-term emissions occur over the life of the proposed project. GHG emissions would result from direct emissions such as project generated vehicular traffic, on-site combustion of natural gas, operation of any landscaping equipment. Operational GHG emissions would also result from indirect sources, such as off-site generation of electrical power over the life of the project, the energy required to convey water to, and wastewater from the project site, the emissions associated with solid waste generated from the project site, and any fugitive refrigerants from air conditioning or refrigerators. [Table 8: Total Project Greenhouse Gas Emissions](#), summarizes the total GHG emissions associated with proposed project. As shown, the project would generate approximately 778 MTCO₂e/year, which is well below the SCAQMD's screening threshold of 3,000 MTCO₂e/yr. Therefore, project related GHG emissions would be less than significant.

Table 8: Total Project Greenhouse Gas Emissions	
Emissions Source	MTCO₂e per Year
Construction Amortized over 30 Years	3
Area Source	0
Energy	90
Mobile ¹	659
Waste	20
Water & Wastewater	6
Total Project Emissions²	778
SCAQMD Project Threshold	3,000
Threshold Exceeded?	No
1. Mobile source emissions include CalEEMod results plus on-site idling emissions calculated with EMFAC2021.	
2. Totals may be slightly off due to rounding.	
Source: CalEEMod version 2020.4.0. Refer to Appendix A for model data outputs.	

As the proposed project's GHG emissions would be well below the SCAQMD 3,000 MTCO₂e/yr threshold, it would not interfere with the State's goals for reducing GHG emissions. Approximately 96 percent of the project's emissions are from energy and mobile sources which would be further reduced by implementation of current state programs. It should be noted that the project and the City have no control over vehicle emissions (approximately 85 percent of the project's total emissions). However, these emissions would decline in the future due to statewide measures including the reduction in the carbon content of fuels, CARB's advanced clean car program, CARB's mobile source strategy, fuel efficiency standards, cleaner technology, and fleet turnover. Additionally, the Southern California Association of Government's (SCAG's) 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy (Connect SoCal) is also expected to help California reach its

GHG reduction goals, with reductions in per capita transportation emissions of 19 percent by 2035.² Furthermore, the project would comply with all applicable regulations regarding energy and water efficiency within the LA Green Code and L.A.'s Green New Deal Sustainable City pLAn. Accordingly, the project does not interfere with State, regional, or local efforts to reduce GHG emissions. Project operations would also benefit from the implementation of current and potential future energy regulations including the SB 100 renewable electricity portfolio target of 60 percent renewable energy by 2030. SB 100 also established a further goal to have an electric grid that is entirely powered by clean energy by 2045. A less than significant impact would occur in this regard.

Conclusion

Project implementation would result in less than significant construction and operational air quality and GHG impacts. No mitigation measures would be required. Therefore, the proposed project would not result in significant effects.

² Southern California Association of Governments, *SB 375 Regional Plan Climate Targets*, <https://ww2.arb.ca.gov/our-work/programs/sustainable-communities-program/regional-plan-targets>, accessed February 1, 2022.

Appendix A

Air Quality and GHG Data

Hollywood Raising Cane - Los Angeles-South Coast County, Summer

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

Hollywood Raising Cane

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	0.60	Acre	0.60	26,136.00	0
City Park	0.25	Acre	0.25	10,890.00	0
Fast Food Restaurant with Drive Thru	3.45	1000sqft	0.08	3,448.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2022
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	691.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - per site plan

Construction Phase - anticipated construction schedule

Demolition -

Grading -

Vehicle Trips - Per traffic study

Construction Off-road Equipment Mitigation - SCAQMD rule compliance

Water Mitigation -

Hollywood Raising Cane - Los Angeles-South Coast County, Summer

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

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	NumDays	1.00	15.00
tblConstructionPhase	NumDays	2.00	20.00
tblConstructionPhase	NumDays	100.00	50.00
tblConstructionPhase	NumDays	5.00	26.00
tblConstructionPhase	NumDays	5.00	15.00
tblGrading	MaterialExported	0.00	433.00
tblLandUse	LandUseSquareFeet	3,450.00	3,448.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	616.12	467.52
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	472.58	467.52
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	470.95	467.52

2.0 Emissions Summary

Hollywood Raising Cane - Los Angeles-South Coast County, 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	3.2967	14.7906	17.6163	0.0309	5.4511	0.7557	5.9723	2.6056	0.7053	3.0852	0.0000	2,963.783 3	2,963.783 3	0.6927	0.0605	2,990.261 1
Maximum	3.2967	14.7906	17.6163	0.0309	5.4511	0.7557	5.9723	2.6056	0.7053	3.0852	0.0000	2,963.783 3	2,963.783 3	0.6927	0.0605	2,990.261 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	3.2967	14.7906	17.6163	0.0309	2.4018	0.7557	2.9230	1.1332	0.7053	1.6129	0.0000	2,963.783 3	2,963.783 3	0.6927	0.0605	2,990.261 1
Maximum	3.2967	14.7906	17.6163	0.0309	2.4018	0.7557	2.9230	1.1332	0.7053	1.6129	0.0000	2,963.783 3	2,963.783 3	0.6927	0.0605	2,990.261 1

	ROG	NOx	CO	SO2	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	55.94	0.00	51.06	56.51	0.00	47.72	0.00	0.00	0.00	0.00	0.00	0.00

Hollywood Raising Cane - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0889	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.4000e-004	9.4000e-004	0.0000		1.0000e-003
Energy	0.0235	0.2133	0.1792	1.2800e-003		0.0162	0.0162		0.0162	0.0162		255.9800	255.9800	4.9100e-003	4.6900e-003	257.5011
Mobile	3.3656	2.5921	22.2378	0.0380	3.5736	0.0348	3.6083	0.9519	0.0324	0.9842		3,890.6630	3,890.6630	0.3770	0.2196	3,965.5161
Total	3.4779	2.8055	22.4174	0.0393	3.5736	0.0510	3.6246	0.9519	0.0486	1.0004		4,146.6439	4,146.6439	0.3819	0.2243	4,223.0182

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0889	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.4000e-004	9.4000e-004	0.0000		1.0000e-003
Energy	0.0235	0.2133	0.1792	1.2800e-003		0.0162	0.0162		0.0162	0.0162		255.9800	255.9800	4.9100e-003	4.6900e-003	257.5011
Mobile	3.3656	2.5921	22.2378	0.0380	3.5736	0.0348	3.6083	0.9519	0.0324	0.9842		3,890.6630	3,890.6630	0.3770	0.2196	3,965.5161
Total	3.4779	2.8055	22.4174	0.0393	3.5736	0.0510	3.6246	0.9519	0.0486	1.0004		4,146.6439	4,146.6439	0.3819	0.2243	4,223.0182

Hollywood Raising Cane - Los Angeles-South Coast County, Summer

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/6/2022	7/15/2022	5	30	
2	Site Preparation	Site Preparation	7/16/2022	8/5/2022	5	15	
3	Grading	Grading	8/6/2022	9/2/2022	5	20	
4	Building Construction	Building Construction	9/3/2022	11/11/2022	5	50	
5	Architectural Coating	Architectural Coating	10/15/2022	11/21/2022	5	26	
6	Paving	Paving	11/1/2022	11/21/2022	5	15	

Acres of Grading (Site Preparation Phase): 7.5

Acres of Grading (Grading Phase): 15

Acres of Paving: 0.6

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 5,172; Non-Residential Outdoor: 1,724; Striped Parking Area: 1,568 (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

Hollywood Raising Cane - Los Angeles-South Coast County, Summer

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

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

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	161.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	54.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	17.00	7.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

Hollywood Raising Cane - Los Angeles-South Coast County, Summer

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

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	lb/day										lb/day					
Fugitive Dust					1.1620	0.0000	1.1620	0.1759	0.0000	0.1759			0.0000			0.0000
Off-Road	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225		1,147.9025	1,147.9025	0.2119		1,153.2001
Total	0.7094	6.4138	7.4693	0.0120	1.1620	0.3375	1.4995	0.1759	0.3225	0.4985		1,147.9025	1,147.9025	0.2119		1,153.2001

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	0.0250	0.9013	0.2102	3.3400e-003	0.0939	6.7000e-003	0.1006	0.0258	6.4100e-003	0.0322		365.3496	365.3496	0.0194	0.0580	383.1090
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	0.0346	0.0253	0.3941	1.0200e-003	0.1118	7.2000e-004	0.1125	0.0296	6.6000e-004	0.0303		104.0127	104.0127	2.8200e-003	2.5000e-003	104.8288
Total	0.0596	0.9266	0.6043	4.3600e-003	0.2057	7.4200e-003	0.2131	0.0554	7.0700e-003	0.0625		469.3623	469.3623	0.0222	0.0605	487.9378

Hollywood Raising Cane - Los Angeles-South Coast County, Summer

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

3.2 Demolition - 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					0.4967	0.0000	0.4967	0.0752	0.0000	0.0752			0.0000			0.0000
Off-Road	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225	0.0000	1,147.9025	1,147.9025	0.2119		1,153.2001
Total	0.7094	6.4138	7.4693	0.0120	0.4967	0.3375	0.8343	0.0752	0.3225	0.3978	0.0000	1,147.9025	1,147.9025	0.2119		1,153.2001

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	0.0250	0.9013	0.2102	3.3400e-003	0.0897	6.7000e-003	0.0964	0.0247	6.4100e-003	0.0311		365.3496	365.3496	0.0194	0.0580	383.1090
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	0.0346	0.0253	0.3941	1.0200e-003	0.1060	7.2000e-004	0.1067	0.0282	6.6000e-004	0.0289		104.0127	104.0127	2.8200e-003	2.5000e-003	104.8288
Total	0.0596	0.9266	0.6043	4.3600e-003	0.1956	7.4200e-003	0.2030	0.0529	7.0700e-003	0.0600		469.3623	469.3623	0.0222	0.0605	487.9378

Hollywood Raising Cane - Los Angeles-South Coast County, Summer

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

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	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367		942.5179	942.5179	0.3048		950.1386
Total	0.5797	6.9332	3.9597	9.7300e-003	0.5303	0.2573	0.7876	0.0573	0.2367	0.2940		942.5179	942.5179	0.3048		950.1386

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	0.0173	0.0126	0.1971	5.1000e-004	0.0559	3.6000e-004	0.0563	0.0148	3.3000e-004	0.0152		52.0064	52.0064	1.4100e-003	1.2500e-003	52.4144
Total	0.0173	0.0126	0.1971	5.1000e-004	0.0559	3.6000e-004	0.0563	0.0148	3.3000e-004	0.0152		52.0064	52.0064	1.4100e-003	1.2500e-003	52.4144

Hollywood Raising Cane - Los Angeles-South Coast County, Summer

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

3.3 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					0.2267	0.0000	0.2267	0.0245	0.0000	0.0245			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367	0.0000	942.5179	942.5179	0.3048		950.1386
Total	0.5797	6.9332	3.9597	9.7300e-003	0.2267	0.2573	0.4840	0.0245	0.2367	0.2612	0.0000	942.5179	942.5179	0.3048		950.1386

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	0.0173	0.0126	0.1971	5.1000e-004	0.0530	3.6000e-004	0.0533	0.0141	3.3000e-004	0.0144		52.0064	52.0064	1.4100e-003	1.2500e-003	52.4144
Total	0.0173	0.0126	0.1971	5.1000e-004	0.0530	3.6000e-004	0.0533	0.0141	3.3000e-004	0.0144		52.0064	52.0064	1.4100e-003	1.2500e-003	52.4144

Hollywood Raising Cane - Los Angeles-South Coast County, Summer

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

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	lb/day										lb/day					
Fugitive Dust					5.3144	0.0000	5.3144	2.5689	0.0000	2.5689			0.0000			0.0000
Off-Road	1.0832	12.0046	5.9360	0.0141		0.5173	0.5173		0.4759	0.4759		1,364.8198	1,364.8198	0.4414		1,375.8551
Total	1.0832	12.0046	5.9360	0.0141	5.3144	0.5173	5.8317	2.5689	0.4759	3.0448		1,364.8198	1,364.8198	0.4414		1,375.8551

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	0.0126	0.4535	0.1057	1.6800e-003	0.0473	3.3700e-003	0.0506	0.0130	3.2200e-003	0.0162		183.8094	183.8094	9.7600e-003	0.0292	192.7443
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	0.0277	0.0202	0.3153	8.2000e-004	0.0894	5.7000e-004	0.0900	0.0237	5.3000e-004	0.0242		83.2102	83.2102	2.2500e-003	2.0000e-003	83.8630
Total	0.0403	0.4737	0.4210	2.5000e-003	0.1367	3.9400e-003	0.1406	0.0367	3.7500e-003	0.0404		267.0196	267.0196	0.0120	0.0312	276.6073

Hollywood Raising Cane - Los Angeles-South Coast County, Summer

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

3.4 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					2.2719	0.0000	2.2719	1.0982	0.0000	1.0982			0.0000			0.0000
Off-Road	1.0832	12.0046	5.9360	0.0141		0.5173	0.5173		0.4759	0.4759	0.0000	1,364.819 8	1,364.819 8	0.4414		1,375.855 1
Total	1.0832	12.0046	5.9360	0.0141	2.2719	0.5173	2.7892	1.0982	0.4759	1.5741	0.0000	1,364.819 8	1,364.819 8	0.4414		1,375.855 1

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	0.0126	0.4535	0.1057	1.6800e-003	0.0451	3.3700e-003	0.0485	0.0124	3.2200e-003	0.0157		183.8094	183.8094	9.7600e-003	0.0292	192.7443
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	0.0277	0.0202	0.3153	8.2000e-004	0.0848	5.7000e-004	0.0853	0.0226	5.3000e-004	0.0231		83.2102	83.2102	2.2500e-003	2.0000e-003	83.8630
Total	0.0403	0.4737	0.4210	2.5000e-003	0.1299	3.9400e-003	0.1338	0.0350	3.7500e-003	0.0388		267.0196	267.0196	0.0120	0.0312	276.6073

Hollywood Raising Cane - Los Angeles-South Coast County, Summer

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

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	lb/day										lb/day					
Off-Road	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422		1,103.939 3	1,103.939 3	0.3570		1,112.865 2
Total	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422		1,103.939 3	1,103.939 3	0.3570		1,112.865 2

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	0.0138	0.3429	0.1176	1.3700e-003	0.0448	3.2700e-003	0.0481	0.0129	3.1200e-003	0.0160		147.3231	147.3231	4.9200e-003	0.0212	153.7726
Worker	0.0588	0.0430	0.6700	1.7400e-003	0.1900	1.2200e-003	0.1912	0.0504	1.1200e-003	0.0515		176.8216	176.8216	4.7900e-003	4.2500e-003	178.2089
Total	0.0726	0.3859	0.7876	3.1100e-003	0.2349	4.4900e-003	0.2393	0.0633	4.2400e-003	0.0676		324.1447	324.1447	9.7100e-003	0.0255	331.9815

Hollywood Raising Cane - Los Angeles-South Coast County, Summer

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

3.5 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	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422	0.0000	1,103.939 3	1,103.939 3	0.3570		1,112.865 2
Total	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422	0.0000	1,103.939 3	1,103.939 3	0.3570		1,112.865 2

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	0.0138	0.3429	0.1176	1.3700e-003	0.0429	3.2700e-003	0.0462	0.0124	3.1200e-003	0.0156		147.3231	147.3231	4.9200e-003	0.0212	153.7726
Worker	0.0588	0.0430	0.6700	1.7400e-003	0.1801	1.2200e-003	0.1813	0.0480	1.1200e-003	0.0491		176.8216	176.8216	4.7900e-003	4.2500e-003	178.2089
Total	0.0726	0.3859	0.7876	3.1100e-003	0.2230	4.4900e-003	0.2275	0.0604	4.2400e-003	0.0646		324.1447	324.1447	9.7100e-003	0.0255	331.9815

Hollywood Raising Cane - Los Angeles-South Coast County, Summer

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

3.6 Architectural Coating - 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	1.5089					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	1.7134	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	0.0104	7.5800e-003	0.1182	3.1000e-004	0.0335	2.1000e-004	0.0338	8.8900e-003	2.0000e-004	9.0900e-003		31.2038	31.2038	8.4000e-004	7.5000e-004	31.4486
Total	0.0104	7.5800e-003	0.1182	3.1000e-004	0.0335	2.1000e-004	0.0338	8.8900e-003	2.0000e-004	9.0900e-003		31.2038	31.2038	8.4000e-004	7.5000e-004	31.4486

Hollywood Raising Cane - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 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	1.5089					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	1.7134	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	0.0104	7.5800e-003	0.1182	3.1000e-004	0.0318	2.1000e-004	0.0320	8.4600e-003	2.0000e-004	8.6600e-003		31.2038	31.2038	8.4000e-004	7.5000e-004	31.4486
Total	0.0104	7.5800e-003	0.1182	3.1000e-004	0.0318	2.1000e-004	0.0320	8.4600e-003	2.0000e-004	8.6600e-003		31.2038	31.2038	8.4000e-004	7.5000e-004	31.4486

Hollywood Raising Cane - Los Angeles-South Coast County, Summer

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

3.7 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758		1,035.824 6	1,035.824 6	0.3017		1,043.367 7
Paving	0.1048					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7517	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758		1,035.824 6	1,035.824 6	0.3017		1,043.367 7

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	0.0623	0.0455	0.7094	1.8400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		187.2229	187.2229	5.0700e-003	4.5000e-003	188.6918
Total	0.0623	0.0455	0.7094	1.8400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		187.2229	187.2229	5.0700e-003	4.5000e-003	188.6918

Hollywood Raising Cane - Los Angeles-South Coast County, Summer

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

3.7 Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758	0.0000	1,035.824 6	1,035.824 6	0.3017		1,043.367 7
Paving	0.1048					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7517	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758	0.0000	1,035.824 6	1,035.824 6	0.3017		1,043.367 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	0.0623	0.0455	0.7094	1.8400e-003	0.1907	1.2900e-003	0.1920	0.0508	1.1900e-003	0.0520		187.2229	187.2229	5.0700e-003	4.5000e-003	188.6918
Total	0.0623	0.0455	0.7094	1.8400e-003	0.1907	1.2900e-003	0.1920	0.0508	1.1900e-003	0.0520		187.2229	187.2229	5.0700e-003	4.5000e-003	188.6918

Hollywood Raising Cane - Los Angeles-South Coast County, Summer

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.3656	2.5921	22.2378	0.0380	3.5736	0.0348	3.6083	0.9519	0.0324	0.9842		3,890.663 0	3,890.663 0	0.3770	0.2196	3,965.516 1
Unmitigated	3.3656	2.5921	22.2378	0.0380	3.5736	0.0348	3.6083	0.9519	0.0324	0.9842		3,890.663 0	3,890.663 0	0.3770	0.2196	3,965.516 1

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	1,612.94	1,612.94	1,612.94	1,697,442	1,697,442
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	1,612.94	1,612.94	1,612.94	1,697,442	1,697,442

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Fast Food Restaurant with Drive	16.60	8.40	6.90	2.20	78.80	19.00	29	21	50
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

Hollywood Raising Cane - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Fast Food Restaurant with Drive Thru	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Other Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397

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	0.0235	0.2133	0.1792	1.2800e-003		0.0162	0.0162		0.0162	0.0162		255.9800	255.9800	4.9100e-003	4.6900e-003	257.5011
NaturalGas Unmitigated	0.0235	0.2133	0.1792	1.2800e-003		0.0162	0.0162		0.0162	0.0162		255.9800	255.9800	4.9100e-003	4.6900e-003	257.5011

Hollywood Raising Cane - Los Angeles-South Coast County, Summer

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	2175.83	0.0235	0.2133	0.1792	1.2800e-003		0.0162	0.0162		0.0162	0.0162		255.9800	255.9800	4.9100e-003	4.6900e-003	257.5011
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0235	0.2133	0.1792	1.2800e-003		0.0162	0.0162		0.0162	0.0162		255.9800	255.9800	4.9100e-003	4.6900e-003	257.5011

Hollywood Raising Cane - Los Angeles-South Coast County, Summer

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas s 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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	2.17583	0.0235	0.2133	0.1792	1.2800e- 003		0.0162	0.0162		0.0162	0.0162		255.9800	255.9800	4.9100e- 003	4.6900e- 003	257.5011
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0235	0.2133	0.1792	1.2800e- 003		0.0162	0.0162		0.0162	0.0162		255.9800	255.9800	4.9100e- 003	4.6900e- 003	257.5011

6.0 Area Detail

6.1 Mitigation Measures Area

Hollywood Raising Cane - Los Angeles-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0889	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.4000e-004	9.4000e-004	0.0000		1.0000e-003
Unmitigated	0.0889	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.4000e-004	9.4000e-004	0.0000		1.0000e-003

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0108					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0781					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.4000e-004	9.4000e-004	0.0000		1.0000e-003
Total	0.0889	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.4000e-004	9.4000e-004	0.0000		1.0000e-003

Hollywood Raising Cane - Los Angeles-South Coast County, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0108					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0781					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.4000e-004	9.4000e-004	0.0000		1.0000e-003
Total	0.0889	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.4000e-004	9.4000e-004	0.0000		1.0000e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

Hollywood Raising Cane - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.0 Waste Detail**

8.1 Mitigation Measures Waste**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Hollywood Raising Cane - Los Angeles-South Coast County, Winter

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

Hollywood Raising Cane

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	0.60	Acre	0.60	26,136.00	0
City Park	0.25	Acre	0.25	10,890.00	0
Fast Food Restaurant with Drive Thru	3.45	1000sqft	0.08	3,448.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2022
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	691.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - per site plan

Construction Phase - anticipated construction schedule

Demolition -

Grading -

Vehicle Trips - Per traffic study

Construction Off-road Equipment Mitigation - SCAQMD rule compliance

Water Mitigation -

Hollywood Raising Cane - Los Angeles-South Coast County, Winter

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

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	NumDays	1.00	15.00
tblConstructionPhase	NumDays	2.00	20.00
tblConstructionPhase	NumDays	100.00	50.00
tblConstructionPhase	NumDays	5.00	26.00
tblConstructionPhase	NumDays	5.00	15.00
tblGrading	MaterialExported	0.00	433.00
tblLandUse	LandUseSquareFeet	3,450.00	3,448.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	616.12	467.52
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	472.58	467.52
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	470.95	467.52

2.0 Emissions Summary

Hollywood Raising Cane - Los Angeles-South Coast County, 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	3.3059	14.8148	17.4978	0.0307	5.4511	0.7557	5.9723	2.6056	0.7054	3.0853	0.0000	2,942.9410	2,942.9410	0.6928	0.0607	2,969.6239
Maximum	3.3059	14.8148	17.4978	0.0307	5.4511	0.7557	5.9723	2.6056	0.7054	3.0853	0.0000	2,942.9410	2,942.9410	0.6928	0.0607	2,969.6239

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	3.3059	14.8148	17.4978	0.0307	2.4018	0.7557	2.9230	1.1332	0.7054	1.6129	0.0000	2,942.9410	2,942.9410	0.6928	0.0607	2,969.6239
Maximum	3.3059	14.8148	17.4978	0.0307	2.4018	0.7557	2.9230	1.1332	0.7054	1.6129	0.0000	2,942.9410	2,942.9410	0.6928	0.0607	2,969.6239

	ROG	NOx	CO	SO2	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	55.94	0.00	51.06	56.51	0.00	47.72	0.00	0.00	0.00	0.00	0.00	0.00

Hollywood Raising Cane - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.2 Overall Operational****Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0889	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.4000e-004	9.4000e-004	0.0000		1.0000e-003
Energy	0.0235	0.2133	0.1792	1.2800e-003		0.0162	0.0162		0.0162	0.0162		255.9800	255.9800	4.9100e-003	4.6900e-003	257.5011
Mobile	3.2643	2.7935	22.8229	0.0364	3.5736	0.0348	3.6084	0.9519	0.0324	0.9843		3,732.8807	3,732.8807	0.4023	0.2306	3,811.6486
Total	3.3766	3.0068	23.0026	0.0377	3.5736	0.0510	3.6246	0.9519	0.0486	1.0005		3,988.8616	3,988.8616	0.4072	0.2353	4,069.1508

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0889	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.4000e-004	9.4000e-004	0.0000		1.0000e-003
Energy	0.0235	0.2133	0.1792	1.2800e-003		0.0162	0.0162		0.0162	0.0162		255.9800	255.9800	4.9100e-003	4.6900e-003	257.5011
Mobile	3.2643	2.7935	22.8229	0.0364	3.5736	0.0348	3.6084	0.9519	0.0324	0.9843		3,732.8807	3,732.8807	0.4023	0.2306	3,811.6486
Total	3.3766	3.0068	23.0026	0.0377	3.5736	0.0510	3.6246	0.9519	0.0486	1.0005		3,988.8616	3,988.8616	0.4072	0.2353	4,069.1508

Hollywood Raising Cane - Los Angeles-South Coast County, Winter

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

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

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/6/2022	7/15/2022	5	30	
2	Site Preparation	Site Preparation	7/16/2022	8/5/2022	5	15	
3	Grading	Grading	8/6/2022	9/2/2022	5	20	
4	Building Construction	Building Construction	9/3/2022	11/11/2022	5	50	
5	Architectural Coating	Architectural Coating	10/15/2022	11/21/2022	5	26	
6	Paving	Paving	11/1/2022	11/21/2022	5	15	

Acres of Grading (Site Preparation Phase): 7.5**Acres of Grading (Grading Phase): 15****Acres of Paving: 0.6****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 5,172; Non-Residential Outdoor: 1,724; Striped Parking Area: 1,568 (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

Hollywood Raising Cane - Los Angeles-South Coast County, Winter

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

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

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	161.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	54.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	17.00	7.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

Hollywood Raising Cane - Los Angeles-South Coast County, Winter

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

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	lb/day										lb/day					
Fugitive Dust					1.1620	0.0000	1.1620	0.1759	0.0000	0.1759			0.0000			0.0000
Off-Road	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225		1,147.9025	1,147.9025	0.2119		1,153.2001
Total	0.7094	6.4138	7.4693	0.0120	1.1620	0.3375	1.4995	0.1759	0.3225	0.4985		1,147.9025	1,147.9025	0.2119		1,153.2001

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	0.0244	0.9379	0.2139	3.3400e-003	0.0939	6.7100e-003	0.1007	0.0258	6.4200e-003	0.0322		365.4567	365.4567	0.0194	0.0580	383.2209
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	0.0371	0.0279	0.3619	9.7000e-004	0.1118	7.2000e-004	0.1125	0.0296	6.6000e-004	0.0303		98.5133	98.5133	2.8500e-003	2.6700e-003	99.3813
Total	0.0615	0.9658	0.5757	4.3100e-003	0.2057	7.4300e-003	0.2131	0.0554	7.0800e-003	0.0625		463.9700	463.9700	0.0222	0.0607	482.6023

Hollywood Raising Cane - Los Angeles-South Coast County, Winter

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

3.2 Demolition - 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					0.4967	0.0000	0.4967	0.0752	0.0000	0.0752			0.0000			0.0000
Off-Road	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225	0.0000	1,147.9025	1,147.9025	0.2119		1,153.2001
Total	0.7094	6.4138	7.4693	0.0120	0.4967	0.3375	0.8343	0.0752	0.3225	0.3978	0.0000	1,147.9025	1,147.9025	0.2119		1,153.2001

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	0.0244	0.9379	0.2139	3.3400e-003	0.0897	6.7100e-003	0.0964	0.0247	6.4200e-003	0.0311		365.4567	365.4567	0.0194	0.0580	383.2209
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	0.0371	0.0279	0.3619	9.7000e-004	0.1060	7.2000e-004	0.1067	0.0282	6.6000e-004	0.0289		98.5133	98.5133	2.8500e-003	2.6700e-003	99.3813
Total	0.0615	0.9658	0.5757	4.3100e-003	0.1956	7.4300e-003	0.2031	0.0529	7.0800e-003	0.0600		463.9700	463.9700	0.0222	0.0607	482.6023

Hollywood Raising Cane - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367		942.5179	942.5179	0.3048		950.1386
Total	0.5797	6.9332	3.9597	9.7300e-003	0.5303	0.2573	0.7876	0.0573	0.2367	0.2940		942.5179	942.5179	0.3048		950.1386

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	0.0185	0.0140	0.1809	4.8000e-004	0.0559	3.6000e-004	0.0563	0.0148	3.3000e-004	0.0152		49.2567	49.2567	1.4200e-003	1.3400e-003	49.6907
Total	0.0185	0.0140	0.1809	4.8000e-004	0.0559	3.6000e-004	0.0563	0.0148	3.3000e-004	0.0152		49.2567	49.2567	1.4200e-003	1.3400e-003	49.6907

Hollywood Raising Cane - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 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					0.2267	0.0000	0.2267	0.0245	0.0000	0.0245			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367	0.0000	942.5179	942.5179	0.3048		950.1386
Total	0.5797	6.9332	3.9597	9.7300e-003	0.2267	0.2573	0.4840	0.0245	0.2367	0.2612	0.0000	942.5179	942.5179	0.3048		950.1386

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	0.0185	0.0140	0.1809	4.8000e-004	0.0530	3.6000e-004	0.0533	0.0141	3.3000e-004	0.0144		49.2567	49.2567	1.4200e-003	1.3400e-003	49.6907
Total	0.0185	0.0140	0.1809	4.8000e-004	0.0530	3.6000e-004	0.0533	0.0141	3.3000e-004	0.0144		49.2567	49.2567	1.4200e-003	1.3400e-003	49.6907

Hollywood Raising Cane - Los Angeles-South Coast County, Winter

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

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	lb/day										lb/day					
Fugitive Dust					5.3144	0.0000	5.3144	2.5689	0.0000	2.5689			0.0000			0.0000
Off-Road	1.0832	12.0046	5.9360	0.0141		0.5173	0.5173		0.4759	0.4759		1,364.8198	1,364.8198	0.4414		1,375.8551
Total	1.0832	12.0046	5.9360	0.0141	5.3144	0.5173	5.8317	2.5689	0.4759	3.0448		1,364.8198	1,364.8198	0.4414		1,375.8551

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	0.0123	0.4719	0.1076	1.6800e-003	0.0473	3.3800e-003	0.0506	0.0130	3.2300e-003	0.0162		183.8633	183.8633	9.7500e-003	0.0292	192.8006
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	0.0296	0.0223	0.2895	7.7000e-004	0.0894	5.7000e-004	0.0900	0.0237	5.3000e-004	0.0242		78.8107	78.8107	2.2800e-003	2.1400e-003	79.5051
Total	0.0419	0.4942	0.3971	2.4500e-003	0.1367	3.9500e-003	0.1406	0.0367	3.7600e-003	0.0404		262.6739	262.6739	0.0120	0.0313	272.3057

Hollywood Raising Cane - Los Angeles-South Coast County, Winter

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

3.4 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					2.2719	0.0000	2.2719	1.0982	0.0000	1.0982			0.0000			0.0000
Off-Road	1.0832	12.0046	5.9360	0.0141		0.5173	0.5173		0.4759	0.4759	0.0000	1,364.819 8	1,364.819 8	0.4414		1,375.855 1
Total	1.0832	12.0046	5.9360	0.0141	2.2719	0.5173	2.7892	1.0982	0.4759	1.5741	0.0000	1,364.819 8	1,364.819 8	0.4414		1,375.855 1

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	0.0123	0.4719	0.1076	1.6800e-003	0.0451	3.3800e-003	0.0485	0.0124	3.2300e-003	0.0157		183.8633	183.8633	9.7500e-003	0.0292	192.8006
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	0.0296	0.0223	0.2895	7.7000e-004	0.0848	5.7000e-004	0.0853	0.0226	5.3000e-004	0.0231		78.8107	78.8107	2.2800e-003	2.1400e-003	79.5051
Total	0.0419	0.4942	0.3971	2.4500e-003	0.1299	3.9500e-003	0.1338	0.0350	3.7600e-003	0.0388		262.6739	262.6739	0.0120	0.0313	272.3057

Hollywood Raising Cane - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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	lb/day										lb/day					
Off-Road	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422		1,103.939 3	1,103.939 3	0.3570		1,112.865 2
Total	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422		1,103.939 3	1,103.939 3	0.3570		1,112.865 2

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	0.0136	0.3570	0.1216	1.3700e-003	0.0448	3.2800e-003	0.0481	0.0129	3.1400e-003	0.0161		147.3785	147.3785	4.9100e-003	0.0213	153.8357
Worker	0.0630	0.0475	0.6152	1.6500e-003	0.1900	1.2200e-003	0.1912	0.0504	1.1200e-003	0.0515		167.4726	167.4726	4.8400e-003	4.5500e-003	168.9483
Total	0.0766	0.4045	0.7368	3.0200e-003	0.2349	4.5000e-003	0.2394	0.0633	4.2600e-003	0.0676		314.8511	314.8511	9.7500e-003	0.0258	322.7840

Hollywood Raising Cane - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 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	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422	0.0000	1,103.939 3	1,103.939 3	0.3570		1,112.865 2
Total	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422	0.0000	1,103.939 3	1,103.939 3	0.3570		1,112.865 2

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	0.0136	0.3570	0.1216	1.3700e-003	0.0429	3.2800e-003	0.0462	0.0124	3.1400e-003	0.0156		147.3785	147.3785	4.9100e-003	0.0213	153.8357
Worker	0.0630	0.0475	0.6152	1.6500e-003	0.1801	1.2200e-003	0.1813	0.0480	1.1200e-003	0.0491		167.4726	167.4726	4.8400e-003	4.5500e-003	168.9483
Total	0.0766	0.4045	0.7368	3.0200e-003	0.2230	4.5000e-003	0.2275	0.0604	4.2600e-003	0.0647		314.8511	314.8511	9.7500e-003	0.0258	322.7840

Hollywood Raising Cane - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 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	1.5089					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	1.7134	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	0.0111	8.3800e-003	0.1086	2.9000e-004	0.0335	2.1000e-004	0.0338	8.8900e-003	2.0000e-004	9.0900e-003		29.5540	29.5540	8.5000e-004	8.0000e-004	29.8144
Total	0.0111	8.3800e-003	0.1086	2.9000e-004	0.0335	2.1000e-004	0.0338	8.8900e-003	2.0000e-004	9.0900e-003		29.5540	29.5540	8.5000e-004	8.0000e-004	29.8144

Hollywood Raising Cane - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 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	1.5089					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	1.7134	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	0.0111	8.3800e-003	0.1086	2.9000e-004	0.0318	2.1000e-004	0.0320	8.4600e-003	2.0000e-004	8.6600e-003		29.5540	29.5540	8.5000e-004	8.0000e-004	29.8144
Total	0.0111	8.3800e-003	0.1086	2.9000e-004	0.0318	2.1000e-004	0.0320	8.4600e-003	2.0000e-004	8.6600e-003		29.5540	29.5540	8.5000e-004	8.0000e-004	29.8144

Hollywood Raising Cane - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.7 Paving - 2022****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758		1,035.824 6	1,035.824 6	0.3017		1,043.367 7
Paving	0.1048					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7517	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758		1,035.824 6	1,035.824 6	0.3017		1,043.367 7

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	0.0667	0.0503	0.6514	1.7400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		177.3240	177.3240	5.1300e-003	4.8100e-003	178.8864
Total	0.0667	0.0503	0.6514	1.7400e-003	0.2012	1.2900e-003	0.2025	0.0534	1.1900e-003	0.0546		177.3240	177.3240	5.1300e-003	4.8100e-003	178.8864

Hollywood Raising Cane - Los Angeles-South Coast County, Winter

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

3.7 Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6469	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758	0.0000	1,035.824 6	1,035.824 6	0.3017		1,043.367 7
Paving	0.1048					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7517	5.9174	7.0348	0.0113		0.2961	0.2961		0.2758	0.2758	0.0000	1,035.824 6	1,035.824 6	0.3017		1,043.367 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	0.0667	0.0503	0.6514	1.7400e-003	0.1907	1.2900e-003	0.1920	0.0508	1.1900e-003	0.0520		177.3240	177.3240	5.1300e-003	4.8100e-003	178.8864
Total	0.0667	0.0503	0.6514	1.7400e-003	0.1907	1.2900e-003	0.1920	0.0508	1.1900e-003	0.0520		177.3240	177.3240	5.1300e-003	4.8100e-003	178.8864

Hollywood Raising Cane - Los Angeles-South Coast County, Winter

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.2643	2.7935	22.8229	0.0364	3.5736	0.0348	3.6084	0.9519	0.0324	0.9843		3,732.8807	3,732.8807	0.4023	0.2306	3,811.6486
Unmitigated	3.2643	2.7935	22.8229	0.0364	3.5736	0.0348	3.6084	0.9519	0.0324	0.9843		3,732.8807	3,732.8807	0.4023	0.2306	3,811.6486

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	1,612.94	1,612.94	1,612.94	1,697,442	1,697,442
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	1,612.94	1,612.94	1,612.94	1,697,442	1,697,442

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Fast Food Restaurant with Drive	16.60	8.40	6.90	2.20	78.80	19.00	29	21	50
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

Hollywood Raising Cane - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Fast Food Restaurant with Drive Thru	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Other Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397

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	0.0235	0.2133	0.1792	1.2800e-003		0.0162	0.0162		0.0162	0.0162		255.9800	255.9800	4.9100e-003	4.6900e-003	257.5011
NaturalGas Unmitigated	0.0235	0.2133	0.1792	1.2800e-003		0.0162	0.0162		0.0162	0.0162		255.9800	255.9800	4.9100e-003	4.6900e-003	257.5011

Hollywood Raising Cane - Los Angeles-South Coast County, Winter

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	2175.83	0.0235	0.2133	0.1792	1.2800e-003		0.0162	0.0162		0.0162	0.0162		255.9800	255.9800	4.9100e-003	4.6900e-003	257.5011
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0235	0.2133	0.1792	1.2800e-003		0.0162	0.0162		0.0162	0.0162		255.9800	255.9800	4.9100e-003	4.6900e-003	257.5011

Hollywood Raising Cane - Los Angeles-South Coast County, Winter

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

5.2 Energy by Land Use - NaturalGas

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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	2.17583	0.0235	0.2133	0.1792	1.2800e-003		0.0162	0.0162		0.0162	0.0162		255.9800	255.9800	4.9100e-003	4.6900e-003	257.5011
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0235	0.2133	0.1792	1.2800e-003		0.0162	0.0162		0.0162	0.0162		255.9800	255.9800	4.9100e-003	4.6900e-003	257.5011

6.0 Area Detail

6.1 Mitigation Measures Area

Hollywood Raising Cane - Los Angeles-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0889	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.4000e-004	9.4000e-004	0.0000		1.0000e-003
Unmitigated	0.0889	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.4000e-004	9.4000e-004	0.0000		1.0000e-003

6.2 Area by SubCategory**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0108					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0781					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.4000e-004	9.4000e-004	0.0000		1.0000e-003
Total	0.0889	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.4000e-004	9.4000e-004	0.0000		1.0000e-003

Hollywood Raising Cane - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**6.2 Area by SubCategory****Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0108					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0781					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.4000e-004	9.4000e-004	0.0000		1.0000e-003
Total	0.0889	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.4000e-004	9.4000e-004	0.0000		1.0000e-003

7.0 Water Detail**7.1 Mitigation Measures Water**

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

Hollywood Raising Cane - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.0 Waste Detail**

8.1 Mitigation Measures Waste**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Hollywood Raising Cane - Los Angeles-South Coast County, Annual

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

Hollywood Raising Cane

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	0.60	Acre	0.60	26,136.00	0
City Park	0.25	Acre	0.25	10,890.00	0
Fast Food Restaurant with Drive Thru	3.45	1000sqft	0.08	3,448.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2022
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	691.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - per site plan

Construction Phase - anticipated construction schedule

Demolition -

Grading -

Vehicle Trips - Per traffic study

Construction Off-road Equipment Mitigation - SCAQMD rule compliance

Water Mitigation -

Hollywood Raising Cane - Los Angeles-South Coast County, Annual

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

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	6
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	NumDays	1.00	15.00
tblConstructionPhase	NumDays	2.00	20.00
tblConstructionPhase	NumDays	100.00	50.00
tblConstructionPhase	NumDays	5.00	26.00
tblConstructionPhase	NumDays	5.00	15.00
tblGrading	MaterialExported	0.00	433.00
tblLandUse	LandUseSquareFeet	3,450.00	3,448.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	616.12	467.52
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	472.58	467.52
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	470.95	467.52

2.0 Emissions Summary

Hollywood Raising Cane - Los Angeles-South Coast County, 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	0.0747	0.5371	0.4956	9.9000e-004	0.0870	0.0250	0.1120	0.0321	0.0233	0.0554	0.0000	87.6598	87.6598	0.0200	1.7500e-003	88.6815
Maximum	0.0747	0.5371	0.4956	9.9000e-004	0.0870	0.0250	0.1120	0.0321	0.0233	0.0554	0.0000	87.6598	87.6598	0.0200	1.7500e-003	88.6815

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	0.0747	0.5371	0.4956	9.9000e-004	0.0437	0.0250	0.0687	0.0155	0.0233	0.0388	0.0000	87.6597	87.6597	0.0200	1.7500e-003	88.6814
Maximum	0.0747	0.5371	0.4956	9.9000e-004	0.0437	0.0250	0.0687	0.0155	0.0233	0.0388	0.0000	87.6597	87.6597	0.0200	1.7500e-003	88.6814

	ROG	NOx	CO	SO2	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	49.78	0.00	38.65	51.76	0.00	29.98	0.00	0.00	0.00	0.00	0.00	0.00

Hollywood Raising Cane - Los Angeles-South Coast County, Annual

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-6-2022	9-5-2022	0.3172	0.3172
2	9-6-2022	9-30-2022	0.0730	0.0730
		Highest	0.3172	0.3172

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	0.0162	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.1000e-004
Energy	4.2800e-003	0.0389	0.0327	2.3000e-004		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003	0.0000	89.2092	89.2092	3.0500e-003	1.0500e-003	89.5975
Mobile	0.5778	0.5114	4.1488	6.7000e-003	0.6377	6.3200e-003	0.6440	0.1701	5.8800e-003	0.1760	0.0000	622.6023	622.6023	0.0657	0.0380	635.5745
Waste						0.0000	0.0000		0.0000	0.0000	8.0709	0.0000	8.0709	0.4770	0.0000	19.9954
Water						0.0000	0.0000		0.0000	0.0000	0.3322	5.5517	5.8839	0.0344	8.4000e-004	6.9933
Total	0.5983	0.5503	4.1815	6.9300e-003	0.6377	9.2800e-003	0.6470	0.1701	8.8400e-003	0.1790	8.4032	717.3633	725.7664	0.5801	0.0399	752.1607

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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	0.0162	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.1000e-004
Energy	4.2800e-003	0.0389	0.0327	2.3000e-004		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003	0.0000	89.2092	89.2092	3.0500e-003	1.0500e-003	89.5975
Mobile	0.5778	0.5114	4.1488	6.7000e-003	0.6377	6.3200e-003	0.6440	0.1701	5.8800e-003	0.1760	0.0000	622.6023	622.6023	0.0657	0.0380	635.5745
Waste						0.0000	0.0000		0.0000	0.0000	8.0709	0.0000	8.0709	0.4770	0.0000	19.9954
Water						0.0000	0.0000		0.0000	0.0000	0.2658	4.6181	4.8839	0.0275	6.7000e-004	5.7719
Total	0.5983	0.5503	4.1815	6.9300e-003	0.6377	9.2800e-003	0.6470	0.1701	8.8400e-003	0.1790	8.3367	716.4297	724.7664	0.5732	0.0397	750.9394

	ROG	NOx	CO	SO2	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	0.79	0.13	0.14	1.18	0.43	0.16

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	6/6/2022	7/15/2022	5	30	
2	Site Preparation	Site Preparation	7/16/2022	8/5/2022	5	15	
3	Grading	Grading	8/6/2022	9/2/2022	5	20	

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4	Building Construction	Building Construction	9/3/2022	11/11/2022	5	50
5	Architectural Coating	Architectural Coating	10/15/2022	11/21/2022	5	26
6	Paving	Paving	11/1/2022	11/21/2022	5	15

Acres of Grading (Site Preparation Phase): 7.5**Acres of Grading (Grading Phase): 15****Acres of Paving: 0.6****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 5,172; Non-Residential Outdoor: 1,724; Striped Parking Area: 1,568 (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 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	161.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	54.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	17.00	7.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

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

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					
Fugitive Dust					0.0174	0.0000	0.0174	2.6400e-003	0.0000	2.6400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0106	0.0962	0.1120	1.8000e-004		5.0600e-003	5.0600e-003		4.8400e-003	4.8400e-003	0.0000	15.6204	15.6204	2.8800e-003	0.0000	15.6925
Total	0.0106	0.0962	0.1120	1.8000e-004	0.0174	5.0600e-003	0.0225	2.6400e-003	4.8400e-003	7.4800e-003	0.0000	15.6204	15.6204	2.8800e-003	0.0000	15.6925

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	3.7000e-004	0.0142	3.1700e-003	5.0000e-005	1.3800e-003	1.0000e-004	1.4900e-003	3.8000e-004	1.0000e-004	4.8000e-004	0.0000	4.9722	4.9722	2.6000e-004	7.9000e-004	5.2139
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	5.1000e-004	4.3000e-004	5.5700e-003	1.0000e-005	1.6400e-003	1.0000e-005	1.6500e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.3606	1.3606	4.0000e-005	4.0000e-005	1.3726
Total	8.8000e-004	0.0147	8.7400e-003	6.0000e-005	3.0200e-003	1.1000e-004	3.1400e-003	8.2000e-004	1.1000e-004	9.3000e-004	0.0000	6.3328	6.3328	3.0000e-004	8.3000e-004	6.5865

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

3.2 Demolition - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.4500e-003	0.0000	7.4500e-003	1.1300e-003	0.0000	1.1300e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0106	0.0962	0.1120	1.8000e-004		5.0600e-003	5.0600e-003		4.8400e-003	4.8400e-003	0.0000	15.6204	15.6204	2.8800e-003	0.0000	15.6925
Total	0.0106	0.0962	0.1120	1.8000e-004	7.4500e-003	5.0600e-003	0.0125	1.1300e-003	4.8400e-003	5.9700e-003	0.0000	15.6204	15.6204	2.8800e-003	0.0000	15.6925

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	3.7000e-004	0.0142	3.1700e-003	5.0000e-005	1.3200e-003	1.0000e-004	1.4200e-003	3.7000e-004	1.0000e-004	4.6000e-004	0.0000	4.9722	4.9722	2.6000e-004	7.9000e-004	5.2139
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	5.1000e-004	4.3000e-004	5.5700e-003	1.0000e-005	1.5600e-003	1.0000e-005	1.5700e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3606	1.3606	4.0000e-005	4.0000e-005	1.3726
Total	8.8000e-004	0.0147	8.7400e-003	6.0000e-005	2.8800e-003	1.1000e-004	2.9900e-003	7.9000e-004	1.1000e-004	8.9000e-004	0.0000	6.3328	6.3328	3.0000e-004	8.3000e-004	6.5865

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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					3.9800e-003	0.0000	3.9800e-003	4.3000e-004	0.0000	4.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.3500e-003	0.0520	0.0297	7.0000e-005		1.9300e-003	1.9300e-003		1.7800e-003	1.7800e-003	0.0000	6.4128	6.4128	2.0700e-003	0.0000	6.4646
Total	4.3500e-003	0.0520	0.0297	7.0000e-005	3.9800e-003	1.9300e-003	5.9100e-003	4.3000e-004	1.7800e-003	2.2100e-003	0.0000	6.4128	6.4128	2.0700e-003	0.0000	6.4646

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	1.3000e-004	1.1000e-004	1.3900e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3402	0.3402	1.0000e-005	1.0000e-005	0.3432
Total	1.3000e-004	1.1000e-004	1.3900e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3402	0.3402	1.0000e-005	1.0000e-005	0.3432

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

3.3 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	tons/yr										MT/yr					
Fugitive Dust					1.7000e-003	0.0000	1.7000e-003	1.8000e-004	0.0000	1.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.3500e-003	0.0520	0.0297	7.0000e-005		1.9300e-003	1.9300e-003		1.7800e-003	1.7800e-003	0.0000	6.4128	6.4128	2.0700e-003	0.0000	6.4646
Total	4.3500e-003	0.0520	0.0297	7.0000e-005	1.7000e-003	1.9300e-003	3.6300e-003	1.8000e-004	1.7800e-003	1.9600e-003	0.0000	6.4128	6.4128	2.0700e-003	0.0000	6.4646

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	1.3000e-004	1.1000e-004	1.3900e-003	0.0000	3.9000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.3402	0.3402	1.0000e-005	1.0000e-005	0.3432
Total	1.3000e-004	1.1000e-004	1.3900e-003	0.0000	3.9000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.3402	0.3402	1.0000e-005	1.0000e-005	0.3432

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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					0.0531	0.0000	0.0531	0.0257	0.0000	0.0257	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0108	0.1201	0.0594	1.4000e-004		5.1700e-003	5.1700e-003		4.7600e-003	4.7600e-003	0.0000	12.3814	12.3814	4.0000e-003	0.0000	12.4816
Total	0.0108	0.1201	0.0594	1.4000e-004	0.0531	5.1700e-003	0.0583	0.0257	4.7600e-003	0.0305	0.0000	12.3814	12.3814	4.0000e-003	0.0000	12.4816

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	1.2000e-004	4.7800e-003	1.0600e-003	2.0000e-005	4.6000e-004	3.0000e-005	5.0000e-004	1.3000e-004	3.0000e-005	1.6000e-004	0.0000	1.6677	1.6677	9.0000e-005	2.6000e-004	1.7488
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	2.7000e-004	2.3000e-004	2.9700e-003	1.0000e-005	8.8000e-004	1.0000e-005	8.8000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7257	0.7257	2.0000e-005	2.0000e-005	0.7321
Total	3.9000e-004	5.0100e-003	4.0300e-003	3.0000e-005	1.3400e-003	4.0000e-005	1.3800e-003	3.6000e-004	4.0000e-005	4.0000e-004	0.0000	2.3934	2.3934	1.1000e-004	2.8000e-004	2.4808

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3.4 Grading - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0227	0.0000	0.0227	0.0110	0.0000	0.0110	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0108	0.1201	0.0594	1.4000e-004		5.1700e-003	5.1700e-003		4.7600e-003	4.7600e-003	0.0000	12.3814	12.3814	4.0000e-003	0.0000	12.4815
Total	0.0108	0.1201	0.0594	1.4000e-004	0.0227	5.1700e-003	0.0279	0.0110	4.7600e-003	0.0157	0.0000	12.3814	12.3814	4.0000e-003	0.0000	12.4815

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	1.2000e-004	4.7800e-003	1.0600e-003	2.0000e-005	4.4000e-004	3.0000e-005	4.8000e-004	1.2000e-004	3.0000e-005	1.5000e-004	0.0000	1.6677	1.6677	9.0000e-005	2.6000e-004	1.7488
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	2.7000e-004	2.3000e-004	2.9700e-003	1.0000e-005	8.3000e-004	1.0000e-005	8.4000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	0.7257	0.7257	2.0000e-005	2.0000e-005	0.7321
Total	3.9000e-004	5.0100e-003	4.0300e-003	3.0000e-005	1.2700e-003	4.0000e-005	1.3200e-003	3.4000e-004	4.0000e-005	3.8000e-004	0.0000	2.3934	2.3934	1.1000e-004	2.8000e-004	2.4808

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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	0.0172	0.1756	0.1788	2.8000e-004		9.3000e-003	9.3000e-003		8.5500e-003	8.5500e-003	0.0000	25.0369	25.0369	8.1000e-003	0.0000	25.2394
Total	0.0172	0.1756	0.1788	2.8000e-004		9.3000e-003	9.3000e-003		8.5500e-003	8.5500e-003	0.0000	25.0369	25.0369	8.1000e-003	0.0000	25.2394

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	3.4000e-004	9.0000e-003	2.9800e-003	3.0000e-005	1.1000e-003	8.0000e-005	1.1800e-003	3.2000e-004	8.0000e-005	4.0000e-004	0.0000	3.3418	3.3418	1.1000e-004	4.8000e-004	3.4882
Worker	1.4600e-003	1.2100e-003	0.0158	4.0000e-005	4.6600e-003	3.0000e-005	4.6900e-003	1.2400e-003	3.0000e-005	1.2600e-003	0.0000	3.8551	3.8551	1.1000e-004	1.0000e-004	3.8890
Total	1.8000e-003	0.0102	0.0188	7.0000e-005	5.7600e-003	1.1000e-004	5.8700e-003	1.5600e-003	1.1000e-004	1.6600e-003	0.0000	7.1968	7.1968	2.2000e-004	5.8000e-004	7.3772

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3.5 Building Construction - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0172	0.1756	0.1788	2.8000e-004		9.3000e-003	9.3000e-003		8.5500e-003	8.5500e-003	0.0000	25.0369	25.0369	8.1000e-003	0.0000	25.2393
Total	0.0172	0.1756	0.1788	2.8000e-004		9.3000e-003	9.3000e-003		8.5500e-003	8.5500e-003	0.0000	25.0369	25.0369	8.1000e-003	0.0000	25.2393

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	3.4000e-004	9.0000e-003	2.9800e-003	3.0000e-005	1.0600e-003	8.0000e-005	1.1400e-003	3.1000e-004	8.0000e-005	3.9000e-004	0.0000	3.3418	3.3418	1.1000e-004	4.8000e-004	3.4882
Worker	1.4600e-003	1.2100e-003	0.0158	4.0000e-005	4.4100e-003	3.0000e-005	4.4500e-003	1.1800e-003	3.0000e-005	1.2100e-003	0.0000	3.8551	3.8551	1.1000e-004	1.0000e-004	3.8890
Total	1.8000e-003	0.0102	0.0188	7.0000e-005	5.4700e-003	1.1000e-004	5.5900e-003	1.4900e-003	1.1000e-004	1.6000e-003	0.0000	7.1968	7.1968	2.2000e-004	5.8000e-004	7.3772

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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	0.0196					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6600e-003	0.0183	0.0236	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.3192	3.3192	2.2000e-004	0.0000	3.3246
Total	0.0223	0.0183	0.0236	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.3192	3.3192	2.2000e-004	0.0000	3.3246

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	1.3000e-004	1.1000e-004	1.4500e-003	0.0000	4.3000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.2000e-004	0.0000	0.3538	0.3538	1.0000e-005	1.0000e-005	0.3569
Total	1.3000e-004	1.1000e-004	1.4500e-003	0.0000	4.3000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.2000e-004	0.0000	0.3538	0.3538	1.0000e-005	1.0000e-005	0.3569

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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	tons/yr										MT/yr					
Archit. Coating	0.0196					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6600e-003	0.0183	0.0236	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.3192	3.3192	2.2000e-004	0.0000	3.3246
Total	0.0223	0.0183	0.0236	4.0000e-005		1.0600e-003	1.0600e-003		1.0600e-003	1.0600e-003	0.0000	3.3192	3.3192	2.2000e-004	0.0000	3.3246

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	1.3000e-004	1.1000e-004	1.4500e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3538	0.3538	1.0000e-005	1.0000e-005	0.3569
Total	1.3000e-004	1.1000e-004	1.4500e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3538	0.3538	1.0000e-005	1.0000e-005	0.3569

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

3.7 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.8500e-003	0.0444	0.0528	8.0000e-005		2.2200e-003	2.2200e-003		2.0700e-003	2.0700e-003	0.0000	7.0476	7.0476	2.0500e-003	0.0000	7.0990
Paving	7.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.6400e-003	0.0444	0.0528	8.0000e-005		2.2200e-003	2.2200e-003		2.0700e-003	2.0700e-003	0.0000	7.0476	7.0476	2.0500e-003	0.0000	7.0990

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	4.6000e-004	3.9000e-004	5.0100e-003	1.0000e-005	1.4800e-003	1.0000e-005	1.4900e-003	3.9000e-004	1.0000e-005	4.0000e-004	0.0000	1.2245	1.2245	3.0000e-005	3.0000e-005	1.2353
Total	4.6000e-004	3.9000e-004	5.0100e-003	1.0000e-005	1.4800e-003	1.0000e-005	1.4900e-003	3.9000e-004	1.0000e-005	4.0000e-004	0.0000	1.2245	1.2245	3.0000e-005	3.0000e-005	1.2353

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3.7 Paving - 2022

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.8500e-003	0.0444	0.0528	8.0000e-005		2.2200e-003	2.2200e-003		2.0700e-003	2.0700e-003	0.0000	7.0476	7.0476	2.0500e-003	0.0000	7.0990
Paving	7.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.6400e-003	0.0444	0.0528	8.0000e-005		2.2200e-003	2.2200e-003		2.0700e-003	2.0700e-003	0.0000	7.0476	7.0476	2.0500e-003	0.0000	7.0990

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	4.6000e-004	3.9000e-004	5.0100e-003	1.0000e-005	1.4000e-003	1.0000e-005	1.4100e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.2245	1.2245	3.0000e-005	3.0000e-005	1.2353
Total	4.6000e-004	3.9000e-004	5.0100e-003	1.0000e-005	1.4000e-003	1.0000e-005	1.4100e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.2245	1.2245	3.0000e-005	3.0000e-005	1.2353

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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	0.5778	0.5114	4.1488	6.7000e-003	0.6377	6.3200e-003	0.6440	0.1701	5.8800e-003	0.1760	0.0000	622.6023	622.6023	0.0657	0.0380	635.5745
Unmitigated	0.5778	0.5114	4.1488	6.7000e-003	0.6377	6.3200e-003	0.6440	0.1701	5.8800e-003	0.1760	0.0000	622.6023	622.6023	0.0657	0.0380	635.5745

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Fast Food Restaurant with Drive Thru	1,612.94	1,612.94	1,612.94	1,697,442	1,697,442
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	1,612.94	1,612.94	1,612.94	1,697,442	1,697,442

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Fast Food Restaurant with Drive Thru	16.60	8.40	6.90	2.20	78.80	19.00	29	21	50
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Fast Food Restaurant with Drive Thru	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397
Other Asphalt Surfaces	0.546774	0.061880	0.186704	0.127505	0.022909	0.005912	0.010702	0.008032	0.000940	0.000617	0.023937	0.000692	0.003397

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	46.8288	46.8288	2.2300e-003	2.7000e-004	46.9653
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	46.8288	46.8288	2.2300e-003	2.7000e-004	46.9653
NaturalGas Mitigated	4.2800e-003	0.0389	0.0327	2.3000e-004		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003	0.0000	42.3804	42.3804	8.1000e-004	7.8000e-004	42.6322
NaturalGas Unmitigated	4.2800e-003	0.0389	0.0327	2.3000e-004		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003	0.0000	42.3804	42.3804	8.1000e-004	7.8000e-004	42.6322

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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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	794178	4.2800e-003	0.0389	0.0327	2.3000e-004		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003	0.0000	42.3804	42.3804	8.1000e-004	7.8000e-004	42.6322
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		4.2800e-003	0.0389	0.0327	2.3000e-004		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003	0.0000	42.3804	42.3804	8.1000e-004	7.8000e-004	42.6322

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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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	794178	4.2800e-003	0.0389	0.0327	2.3000e-004		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003	0.0000	42.3804	42.3804	8.1000e-004	7.8000e-004	42.6322
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		4.2800e-003	0.0389	0.0327	2.3000e-004		2.9600e-003	2.9600e-003		2.9600e-003	2.9600e-003	0.0000	42.3804	42.3804	8.1000e-004	7.8000e-004	42.6322

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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			
City Park	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	149195	46.8288	2.2300e-003	2.7000e-004	46.9653
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		46.8288	2.2300e-003	2.7000e-004	46.9653

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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****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant with Drive Thru	149195	46.8288	2.2300e-003	2.7000e-004	46.9653
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		46.8288	2.2300e-003	2.7000e-004	46.9653

6.0 Area Detail**6.1 Mitigation Measures Area**

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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	0.0162	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.1000e-004
Unmitigated	0.0162	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.1000e-004

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	1.9600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0143					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.1000e-004
Total	0.0162	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.1000e-004

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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	1.9600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0143					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.1000e-004
Total	0.0162	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.1000e-004	1.1000e-004	0.0000	0.0000	1.1000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

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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	4.8839	0.0275	6.7000e-004	5.7719
Unmitigated	5.8839	0.0344	8.4000e-004	6.9933

7.2 Water by Land Use**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.29787	1.0387	5.0000e-005	1.0000e-005	1.0418
Fast Food Restaurant with Drive Thru	1.04719 / 0.066842	4.8452	0.0343	8.3000e-004	5.9515
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		5.8839	0.0344	8.4000e-004	6.9933

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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			
City Park	0 / 0.2797	0.9754	5.0000e-005	1.0000e-005	0.9782
Fast Food Restaurant with Drive Thru	0.837753 / 0.0627646	3.9085	0.0275	6.7000e-004	4.7937
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		4.8839	0.0275	6.8000e-004	5.7719

8.0 Waste Detail**8.1 Mitigation Measures Waste**

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

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	8.0709	0.4770	0.0000	19.9954
Unmitigated	8.0709	0.4770	0.0000	19.9954

8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.02	4.0600e-003	2.4000e-004	0.0000	0.0101
Fast Food Restaurant with Drive Thru	39.74	8.0669	0.4767	0.0000	19.9853
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		8.0709	0.4770	0.0000	19.9954

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**8.2 Waste by Land Use****Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.02	4.0600e-003	2.4000e-004	0.0000	0.0101
Fast Food Restaurant with Drive Thru	39.74	8.0669	0.4767	0.0000	19.9853
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		8.0709	0.4770	0.0000	19.9954

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

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

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

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

11.0 Vegetation
