

Appendix F
Air Quality Information

Appendix F-1
Air Quality Modeling Tables

Alternative A - Inputs

Input	Type of Input	Proposed Project	Source/Notes
Project Name	Project Name	Koi Nation Shiloh Resort and Casino Project	Project Description
Project Location	County	Sonoma (San Francisco)	Project Description
Climate zone	Climate Zone Number	4	Appendix F of CalEEMod User Guide
Land Use Setting	Urban or Rural	Rural	Site and Vicinity Figure
Start of Construction	Date	July 2026	Section 2 of the EA/TEIR
Operational Year	1st year of operation after full buildout.	2028	Section 2 of the EA/TEIR
Utility Company	Utility Company Name	PG&E	Section 2 of the EA/TEIR
Land Use Type and Subtype	Residential, Commercial, Recreation, etc.	See Table 1	See Table 1
Unit Amount	Size of Buildings or Number of units for each Land Use Type.	See Table 1	See Table 1
Lot Acreage	Acreage of each Land Use Type	See Table 1	See Table 1
Population	Population based on persons/household	Default	Default
Construction Phases	Type of construction phase (Demo, Site Prep, etc.) and beginning and ending dates	See Table 2	See Table 2
Off-Road Equipment	Type of equipment (Excavator, Dozer, etc.) and number of units per construction phase	See Table 2	See Table 2
Dust From Material Haul	Import/Export Material (Cu Yd or Tons)	10,000 CY import	Grading and Hydrology Report (Section 3.4)
	Total Acres Graded	51.5	Site plan
Demolition	Sq ft or tons of Demo (Tons or Sqft)	6,400 sq ft	Google Earth, 2022
Construction Trip Gen Rate	Average number of one-way trips per day	Default	Defaults
Operational Trip Reductions	% reduction in trips.	See Table 3	See Table 3
Operational Trip Gen Rate and trip length	Trips and trip lengths	See Table 3	See Table 3
Area Sources	Hearths – # of wood-burning fireplaces, # of gas fireplaces, and # of units with no fireplace.	NA	No hearths are included in project design.

Alternative A - Inputs (cont.)

Input	Type of Input	Proposed Project	Source/Notes
Energy Use	Project Specific Emission Factors.	See Table 4	See Table 4
Water and Wastewater	Indoor and outdoor water use for each Land Use Subtype in gallons per year.	See Table 1	See Table 1
Solid waste	Tons of solid waste generated per year	1,919 ton/year	EA/TEIR Section 3.10 Table 3.10-2
	Land Fill No Gas Capture, Landfill Capture Gas Flare Rate	Default	CalEEMod 2020.4.0 Default
Operational off-road equipment	Excavator, Dozer, etc.	--	--
Stationary Sources	Emergency Generators	Four 1,650-KW (2,447 HP) emergency gen/sets operating 72 hours per year	Section 2 of the EA/TEIR
	Boilers	Four 0.5-MMBtu/hr boilers	Based on similar projects
Land Use Change	Vegetation land use type (cropland, etc.) and initial and final acreage	Initial Cropland: 61.7 acres Final Cropland: 14.1 acres	GIS analysis
Sequestration	Type and net number of new trees added	Not Applicable	Insignificant increase in the number of trees on project site for modeling purposes

Alternative A – Mitigation Inputs

Mitigation Input Category	CAPCOA Mitigation Number	Include in Model? (yes/no)	Type of Input / Unit	Project Specific Inputs	
				Inputs	Source/Notes
Off-Road Equipment	C-1	Yes	Engine Type, DPF Level, and Oxidation Catalyst	See Off-Road Equipment Mitigation Inputs	See Off-Road Equipment Mitigation Inputs
Soil Stabilizer for Unpaved Roads	N/A	Yes	PM ₁₀ (% Reduction)	10%	Default % Reduction.
	N/A		PM _{2.5} (% Reduction)	10%	Default % Reduction.
Water Exposed Area	N/A	Yes	Frequency (per day)	2 times per day	Section 2 of the EA/TEIR
	N/A		PM ₁₀ (% Reduction)	55%	Default % Reduction.
	N/A		PM _{2.5} (% Reduction)	55%	Default % Reduction.
Replace Ground Cover of Area Disturbed	N/A	No	PM ₁₀ (% Reduction)	--	
	N/A		PM _{2.5} (% Reduction)	--	
Unpaved Road Mitigation	N/A	No	Moisture Content (%)	--	--
	N/A	Yes	Vehicle Speed (mph)	15 mph	Section 2 of the EA/TEIR
Type of Residential	N/A	No	Type of Residential	--	--
Increased Density	LUT-1	No	Dwelling Units/Acre	--	--
			Job/Job Acre	--	--
Increased Diversity	LUT-3	No	Yes or No	--	--
Improved Walkability Design	LUT-9	No	Intersections/Square Miles	--	--
Improve Destination Accessibility	LUT-4	No	Distance to Downtown/Job Ctr	--	
Increased Transit Accessibility	LUT-5	No	Average Distance to Transit Station (miles)	--	
Integrated Below Market Rate Housing	LUT-6	No	# Dwelling Units Below Market Rate	--	
Improve Pedestrian Network	SDT-1	No	Yes or No; Project Site, Project Site and Connecting off-site, and Rural	--	--

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Alternative A – Mitigation Inputs (cont.)

Mitigation Input Category	CAPCOA Mitigation Number	Include in Model? (yes/no)	Type of Input / Unit	Project Specific Inputs	
				Inputs	Source/Notes
Provide Traffic Calming Measures	SDT-2	No	% Streets with Improvement	--	--
		No	% Intersections with Improvement	--	
Implement Neighborhood Electric Vehicle (NEV) Network	SDT-3	No	% of streets equipped with NEV network.	--	
Limit Parking Supply	PDT-1	No	% Reduction in Spaces	--	
Unbundled Parking Costs	PDT-2	No	Monthly Parking Costs (\$)	--	
On-Street Market Pricing	PDT-3	No	% Increase in Price	--	
Provide a Bus Rapid Transit System	TST-1	No	% Lines BRT	--	--
Expand Transit Network	TST-3	No	% Increase Transit Coverage	--	
Increase Transit Frequency	TST-4	No	Level of Implementation	--	
		No	% Reduction in Headways	--	
Implement Trip Reduction Program	TRT-1, TRT-2	No	% employee eligible	--	
		No	Program Type	--	--
Transit Subsidy	TRT-4	No	% employee eligible	--	
		No	Daily Transit Subsidy Amount (\$)	--	
Implement Employee Parking "Cash-Out"	TRT-15	No	% employee eligible	--	
Workplace Parking Charge	TRT-14	No	% employee eligible	--	
		No	Daily Parking Charge (\$)	--	--
Encourage Telecommuting and Alternative Work Schedules	TRT-6	No	% employee work 9/80	--	
		No	% employee work 4/40	--	
		No	% employee telecommute 1.5 days	--	--

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Alternative A – Mitigation Inputs (cont.)

Mitigation Input Category	CAPCOA Mitigation Number	Include in Model? (yes/no)	Type of Input / Unit	Project Specific Inputs	
				Inputs	Source/Notes
Market Commute Trip Reduction Option	TRT-7	No	% employee eligible	--	--
Employee Vanpool/Shuttle	TRT-11	No	% employee eligible	--	--
		No	% vanpool mode share	--	--
Provide Ride Sharing Program	TRT-3	No	% employee eligible	--	--
Implement School Bus Program	TRT-13	No	% family using	--	--
Only Natural Gas Hearth	N/A	No	Yes or No	--	--
No hearth	N/A	No	Yes or No	--	--
Use of Low VOC Cleaning Supplies	N/A	No	Yes or No	--	--
Use low VOC Paint (Residential Interior)	N/A	Yes	Emission Factor (EF) (g/l)	100	BAAQMD Rule 3 Architectural Coatings (Nonflat Coating)
Use low VOC Paint (Residential Exterior)	N/A	Yes	EF (g/l)	100	BAAQMD Rule 3 Architectural Coatings (Nonflat Coating)
Use low VOC Paint (Non-residential Interior)	N/A	Yes	EF (g/l)	100	BAAQMD Rule 3 Architectural Coatings (Nonflat Coating)
Use low VOC Paint (Non-residential Exterior)	N/A	Yes	EF (g/l)	100	BAAQMD Rule 3 Architectural Coatings (Nonflat Coating)
Electric Lawnmower	A-1	No	Percent of equipment type that will be electric.	--	
Electric Leafblower	A-1	No	Percent of equipment type that will be electric.	--	
Electric Chainsaw	A-1	No	Percent of equipment type that will be electric.	--	
Exceed Title 24	BE-1	No	Percentage improvement selected for the Project.	--	

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Alternative A – Mitigation Inputs (cont.)

Mitigation Input Category	CAPCOA Mitigation Number	Include in Model? (yes/no)	Type of Input / Unit	Project Specific Inputs	
				Inputs	Source/Notes
Install High Efficiently Lighting	LE-1	Yes	% Lighting Energy Reduction	16	CAPCOA, 2010.
On-site Renewable Energy	E-1, AE-2, AE-3	No	kWh Generated	--	--
		No	% of Electricity Use Generated	--	--
Energy Efficient Appliances	BE-4	Yes	Appliance Type, Land Use Subtype, % Improvement	Use Default Values	Defaults
Apply Water Conservation Strategy	WUW-2	No	% Reduction Indoor	--	--
		No	% Reduction Outdoor	--	--
Use Reclaimed Water	WSW-1	No	% Indoor Water Use	--	--
		No	% Outdoor Water Use	--	--
Use Grey Water	WSW-2	No	% Indoor Water Use	--	--
		No	% Outdoor Water Use	--	--
Install Low-Flow Bathroom Faucet	WUW-1	No	% Reduction in flow	--	Included in Project
Install Low-flow Kitchen Faucet	WUW-1	No	% Reduction in flow	--	Included in Project
Install Low-flow Toilet	WUW-1	No	% Reduction in flow	--	Included in Project
Install Low-flow Shower	WUW-1	No	% Reduction in flow	--	Included in Project
Turf Reduction	WUW-5	No	Turf Reduction Area (sqft)	--	--
		No	% Reduction turf	--	--
Use Water-Efficient Irrigation Systems	WUW-4	No	% Reduction	--	--
Water Efficient Landscape	WUW-3	No	Maximum Applied Water Allowance (MAWA) (gal/yr)	--	
		No	Estimated Total Water Use (ETWU) (gal/yr)	--	--
Institute Recycling and Composting Service	SW-1	Yes	% Reduction in Waste Disposal	50%	Tribe will use County facilities which are required to divert 50 percent of waste from landfills

Alternative A – Land Use Inputs

Land Use Inputs						
Land Use Type	Land Use Subtype ¹	Unit Amount	Size Metric	Lot Acreage	Square Feet	Water Demand (gal/yr) ²
Commercial	User Defined (Casino) ³	122.6	ksf	51.5	410,572	62,050,000191
Recreation	Hotel	400	rooms	0	268,930	
Commercial	User Defined (Event Center)	53.4	ksf	0	53,380	
Commercial	User Defined (Convention) ⁴	74.2	ksf	0	74,185	
Parking	Unenclosed Parking Structure with Elevator	3,692	spaces	0	1,214,080	
Parking	Parking Lot	1,427	spaces	0	475,300	

Notes:

ksf = 1,000 square feet

1 - Source: Section 2, Project Description.

2 - Source: Water and Wastewater Feasibility Report, Appendix A.

3 – Unit amount includes gaming floor and high limits gaming, square feet is total casino.

4 – Includes ballrooms and meeting rooms.

Alternative A – Construction Equipment

Equipment	Construction Phase Activities					
	Demolition (7/1/26 – 7/14/26)	Site Preparation (7/1/26 – 7/21/26)	Grading (7/22/26 – 9/15/26)	Construction (9/16/26 – 12/28/27)	Paving (6/15/27 – 10/18/27)	Architectural Coating (3/23/27 – 12/27/27)
All Heavy Equipment	Default	Default	Default	Default	Default	Default
Worker Trips	Default	Default	Default	Default	Default	Default
Soil Haul Trips	Default	Default	Default	Default	Default	Default
Soil Haul	Default	Default	Default	Default	Default	Default
Total Days	10	15	40	335	90	200

Alternative A – Trip Generation

Land Use Subtype	Daily Trip Generation Rate ¹		Average Trip Length (miles) ²			Trip Type (%) ³			Trip Purpose (%) ⁴		
	Weekday	Saturday/Sunday	Commercial-Customer Trips (C-C)	Commercial-Work Trips (C-W)	Commercial-Nonwork Trips (C-NW)	Primary	Diverted	Pass-By	Commercial-Customer Trips(C-C)	Commercial-Work Trips (C-W)	Commercial-Nonwork Trips (C-NW)
Commercial User Defined (Casino/Event Center/Convention)	41.62	59.79	55	Default	10	100	0	0	77	5	18
Recreation Hotel	2.0	2.05	55	Default	10	Default	Default	Default	Default	Default	Default

Notes:

- 1 Trip Generation Rates for Casino, Event Center and Convention Center adjusted for consistency with Traffic Impact Analysis Report (TJKM, 2022).
- 2 Average trip length for non-work trips based on distance from Santa Rosa area to project site. Average trip length for customer trips based on the market analysis (Meister, 2021).
- 3 All Trip Type percentages, with exception of the Casino/Event Center/Convention, are CalEEMod default values. The Casino/Event Center/Convention Trip Type percentage conservatively assumes that all trips are primary.
- 4 All Trip Purpose percentages, with exception of the Casino/Event Center/Convention, are CalEEMod default values. The Casino/Event Center/Convention Trip Purpose is based on estimated employee and service trips.

Alternative A – Energy Use

Land Use Subtype	Title-24 Electricity Energy Intensity (KWhr/size/yr)	Nontitle-24 Electricity Energy Intensity (KWhr/size/yr)	Lighting Energy Intensity (KWhr/size/yr)	Title-24 Natural Gas Intensity (KBtu/size/yr)	Non-title-24 Natural Gas Intensity (KBtu/size/yr)
User Defined (Casino, Event Center, Convention)	7.35	23.69	6.78	35.56	138.46
Hotel	Default	Default	Default	Default	Default
Unenclosed Parking Structure with Elevator	Default	Default	Default	Default	Default
Parking Lot	Default	Default	Default	Default	Default

Notes: Casino, Event Center, Convention energy use based on CalEEMod default values for quality restaurant energy use.

Alternative A – Off-Road Equipment Mitigation Inputs

Equipment Type	Engine Tier	Number of Equipment Mitigated	Diesel Particulate Filter (DPF) Level 2014
Scrapers, Welders, Air Compressors, Concrete/Industrial Saws ⁵⁵	No Change	0	No Change
All Other Equipment	Tier 3	All	3

Mitigation Measures incorporated into EA/TEIR

- The Tribe shall use Tier 3 construction equipment (with the exception of Tier 3 Scrapers, which are not widely available), using a minimum of 90 percent of the equipment's total horsepower, as well as construction equipment with Level 3 diesel particulate filters (DPF)
- The Tribe shall use soil stabilizer on unpaved roads.
- The Tribe shall apply water to exposed construction areas twice a day.
- The Tribe shall restrict vehicle speeds on the construction site to 15 miles per hour.
- The Tribe shall restrict construction vehicle idling to five minutes.
- The Tribe shall use energy efficient lighting
- The Tribe shall use reclaimed water for outdoor landscape irrigation (included as part of the Project Description; however, input as a mitigation measure for the purposes of CalEEMod).

Alternative B - Inputs

Input	Type of Input	Proposed Project	Source/Notes
Project Name	Project Name	Koi Nation Shiloh Resort and Casino Project	Project Description
Project Location	County	Sonoma (San Francisco)	Project Description
Climate zone	Climate Zone Number	4	Appendix F of CalEEMod User Guide
Land Use Setting	Urban or Rural	Rural	Site and Vicinity Figure
Start of Construction	Date	July 2026	Section 2 of the EA/TEIR
Operational Year	1st year of operation after full buildout.	2028	Section 2 of the EA/TEIR
Utility Company	Utility Company Name	PG&E	Section 2 of the EA/TEIR
Land Use Type and Subtype	Residential, Commercial, Recreation, etc.	See Table 1	See Table 1
Unit Amount	Size of Buildings or Number of units for each Land Use Type.	See Table 1	See Table 1
Lot Acreage	Acreage of each Land Use Type	See Table 1	See Table 1
Population	Population based on persons/household	Default	Default
Construction Phases	Type of construction phase (Demo, Site Prep, etc.) and beginning and ending dates	See Table 2	See Table 2
Off-Road Equipment	Type of equipment (Excavator, Dozer, etc.) and number of units per construction phase	See Table 2	See Table 2
Dust From Material Haul	Import/Export Material (Cu Yd or Tons)	10,000 CY import	Grading and Hydrology Report (Section 3.4)
	Total Acres Graded	46.8	Site plan
Demolition	Sq ft or tons of Demo (Tons or Sqft)	6,400 sq ft	Google Earth, 2022
Construction Trip Gen Rate	Average number of one-way trips per day	Default	Defaults
Operational Trip Reductions	% reduction in trips.	See Table 3	See Table 3
Operational Trip Gen Rate and trip length	Trips and trip lengths	See Table 3	See Table 3
Area Sources	Hearths – # of wood-burning fireplaces, # of gas fireplaces, and # of units with no fireplace.	NA	No hearths are included in project design.

Alternative B - Inputs (cont.)

Input	Type of Input	Proposed Project	Source/Notes
Energy Use	Project Specific Emission Factors.	See Table 4	See Table 4
Water and Wastewater	Indoor and outdoor water use for each Land Use Subtype in gallons per year.	See Table 1	See Table 1
Solid waste	Tons of solid waste generated per year	1,267 ton/year	EA/TEIR Section 3.10
	Land Fill No Gas Capture, Landfill Capture Gas Flare Rate	Default	CalEEMod 2020.4.0 Default
Operational off-road equipment	Excavator, Dozer, etc.	--	--
Stationary Sources	Emergency Generators	Three 1,650-KW (2,447 HP) emergency gen/sets operating 72 hours per year	Section 2 of the EA/TEIR
	Boilers	Three 0.5-MMBtu/hr boilers	Based on similar projects
Land Use Change	Vegetation land use type (cropland, etc.) and initial and final acreage	Initial Cropland: 61.7 acres Final Cropland: 17.75 acres	GIS analysis
Sequestration	Type and net number of new trees added	Not Applicable	Insignificant increase in the number of trees on project site for modeling purposes

Alternative B – Mitigation Inputs

Mitigation Input Category	CAPCOA Mitigation Number	Include in Model? (yes/no)	Type of Input / Unit	Project Specific Inputs	
				Inputs	Source/Notes
Off-Road Equipment	C-1	Yes	Engine Type, DPF Level, and Oxidation Catalyst	See Off-Road Equipment Mitigation Inputs	See Off-Road Equipment Mitigation Inputs
Soil Stabilizer for Unpaved Roads	N/A	Yes	PM ₁₀ (% Reduction)	10%	Default % Reduction.
	N/A		PM _{2.5} (% Reduction)	10%	Default % Reduction.
Water Exposed Area	N/A	Yes	Frequency (per day)	2 times per day	Section 2 of the EA/TEIR
	N/A		PM ₁₀ (% Reduction)	55%	Default % Reduction.
	N/A		PM _{2.5} (% Reduction)	55%	Default % Reduction.
Replace Ground Cover of Area Disturbed	N/A	No	PM ₁₀ (% Reduction)	--	
	N/A		PM _{2.5} (% Reduction)	--	
Unpaved Road Mitigation	N/A	No	Moisture Content (%)	--	--
	N/A	Yes	Vehicle Speed (mph)	15 mph	Section 2 of the EA/TEIR
Type of Residential	N/A	No	Type of Residential	--	--
Increased Density	LUT-1	No	Dwelling Units/Acre	--	--
			Job/Job Acre	--	--
Increased Diversity	LUT-3	No	Yes or No	--	--
Improved Walkability Design	LUT-9	No	Intersections/Square Miles	--	--
Improve Destination Accessibility	LUT-4	No	Distance to Downtown/Job Ctr	--	
Increased Transit Accessibility	LUT-5	No	Average Distance to Transit Station (miles)	--	
Integrated Below Market Rate Housing	LUT-6	No	# Dwelling Units Below Market Rate	--	
Improve Pedestrian Network	SDT-1	No	Yes or No; Project Site, Project Site and Connecting off-site, and Rural	--	--

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Alternative B – Mitigation Inputs (cont.)

Mitigation Input Category	CAPCOA Mitigation Number	Include in Model? (yes/no)	Type of Input / Unit	Project Specific Inputs	
				Inputs	Source/Notes
Provide Traffic Calming Measures	SDT-2	No	% Streets with Improvement	--	--
		No	% Intersections with Improvement	--	
Implement Neighborhood Electric Vehicle (NEV) Network	SDT-3	No	% of streets equipped with NEV network.	--	
Limit Parking Supply	PDT-1	No	% Reduction in Spaces	--	
Unbundled Parking Costs	PDT-2	No	Monthly Parking Costs (\$)	--	
On-Street Market Pricing	PDT-3	No	% Increase in Price	--	
Provide a Bus Rapid Transit System	TST-1	No	% Lines BRT	---	--
Expand Transit Network	TST-3	No	% Increase Transit Coverage	--	
Increase Transit Frequency	TST-4	No	Level of Implementation	--	
		No	% Reduction in Headways	--	
Implement Trip Reduction Program	TRT-1, TRT-2	No	% employee eligible	---	
		No	Program Type	---	--
Transit Subsidy	TRT-4	No	% employee eligible	--	
		No	Daily Transit Subsidy Amount (\$)	--	
Implement Employee Parking "Cash-Out"	TRT-15	No	% employee eligible	--	
Workplace Parking Charge	TRT-14	No	% employee eligible	--	
		No	Daily Parking Charge (\$)	--	--
Encourage Telecommuting and Alternative Work Schedules	TRT-6	No	% employee work 9/80	--	
		No	% employee work 4/40	--	
		No	% employee telecommute 1.5 days	-- --	

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Alternative B – Mitigation Inputs (cont.)

Mitigation Input Category	CAPCOA Mitigation Number	Include in Model? (yes/no)	Type of Input / Unit	Project Specific Inputs	
				Inputs	Source/Notes
Market Commute Trip Reduction Option	TRT-7	No	% employee eligible	--	--
Employee Vanpool/Shuttle	TRT-11	No	% employee eligible	--	--
		No	% vanpool mode share	--	--
Provide Ride Sharing Program	TRT-3	No	% employee eligible	--	--
Implement School Bus Program	TRT-13	No	% family using	--	--
Only Natural Gas Hearth	N/A	No	Yes or No	--	--
No hearth	N/A	No	Yes or No	--	--
Use of Low VOC Cleaning Supplies	N/A	No	Yes or No	--	--
Use low VOC Paint (Residential Interior)	N/A	Yes	Emission Factor (EF) (g/l)	100	BAAQMD Rule 3 Architectural Coatings (Nonflat Coating)
Use low VOC Paint (Residential Exterior)	N/A	Yes	EF (g/l)	100	BAAQMD Rule 3 Architectural Coatings (Nonflat Coating)
Use low VOC Paint (Non-residential Interior)	N/A	Yes	EF (g/l)	100	BAAQMD Rule 3 Architectural Coatings (Nonflat Coating)
Use low VOC Paint (Non-residential Exterior)	N/A	Yes	EF (g/l)	100	BAAQMD Rule 3 Architectural Coatings (Nonflat Coating)
Electric Lawnmower	A-1	No	Percent of equipment type that will be electric.	--	
Electric Leafblower	A-1	No	Percent of equipment type that will be electric.	--	
Electric Chainsaw	A-1	No	Percent of equipment type that will be electric.	--	
Exceed Title 24	BE-1	No	Percentage improvement selected for the Project.	--	

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Alternative B – Mitigation Inputs (cont.)

Mitigation Input Category	CAPCOA Mitigation Number	Include in Model? (yes/no)	Type of Input / Unit	Project Specific Inputs	
				Inputs	Source/Notes
Install High Efficiently Lighting	LE-1	Yes	% Lighting Energy Reduction	16	CAPCOA, 2010.
On-site Renewable Energy	E-1, AE-2, AE-3	No	kWh Generated	--	--
		No	% of Electricity Use Generated	--	--
Energy Efficient Appliances	BE-4	Yes	Appliance Type, Land Use Subtype, % Improvement	Use Default Values	Defaults
Apply Water Conservation Strategy	WUW-2	No	% Reduction Indoor	--	--
		No	% Reduction Outdoor	--	--
Use Reclaimed Water	WSW-1	No	% Indoor Water Use	--	--
		No	% Outdoor Water Use	--	--
Use Grey Water	WSW-2	No	% Indoor Water Use	--	--
		No	% Outdoor Water Use	--	--
Install Low-Flow Bathroom Faucet	WUW-1	No	% Reduction in flow	--	Included in Project
Install Low-flow Kitchen Faucet	WUW-1	No	% Reduction in flow	--	Included in Project
Install Low-flow Toilet	WUW-1	No	% Reduction in flow	--	Included in Project
Install Low-flow Shower	WUW-1	No	% Reduction in flow	--	Included in Project
Turf Reduction	WUW-5	No	Turf Reduction Area (sqft)	--	--
		No	% Reduction turf	--	--
Use Water-Efficient Irrigation Systems	WUW-4	No	% Reduction	--	--
Water Efficient Landscape	WUW-3	No	Maximum Applied Water Allowance (MAWA) (gal/yr)	--	
		No	Estimated Total Water Use (ETWU) (gal/yr)	--	--
Institute Recycling and Composting Service	SW-1	Yes	% Reduction in Waste Disposal	50%	Tribe will use County facilities which are required to divert 50 percent of waste from landfills

Alternative B – Land Use Inputs

Land Use Inputs						
Land Use Type	Land Use Subtype ¹	Unit Amount	Size Metric	Lot Acreage	Square Feet	Water Demand (gal/yr) ²
Commercial	User Defined (Casino) ³	122.6	ksf	46.8	372,747	42,705,000
Recreational	Hotel	200	rooms	0	147,380	
Commercial	User Defined (Convention) ⁴	33.1	ksf	0	33,135	
Parking	Unenclosed Parking Structure with Elevator	3,692	spaces	0	1,214,080	
Parking	Parking Lot	769	spaces	0	292,200	

Notes:

ksf = 1,000 square feet

1 - Source: Section 2, Project Description.

2 - Source: Water and Wastewater Feasibility Report, Appendix A.

3 – Unit amount includes gaming floor and high limits gaming, square feet is total casino.

4 – Includes ballrooms and meeting rooms.

Alternative B – Construction Equipment

Equipment	Construction Phase Activities					
	Demolition (7/1/26 – 7/14/26)	Site Preparation (7/1/26 – 7/21/26)	Grading (7/22/26 – 9/15/26)	Construction (9/16/26 – 12/28/27)	Paving (6/15/27 – 10/18/27)	Architectural Coating (3/23/27 – 12/27/27)
All Heavy Equipment	Default	Default	Default	Default	Default	Default
Worker Trips	Default	Default	Default	Default	Default	Default
Soil Haul Trips	Default	Default	Default	Default	Default	Default
Soil Haul	Default	Default	Default	Default	Default	Default
Total Days	10	15	40	335	90	200

Alternative B – Trip Generation

Land Use Subtype	Daily Trip Generation Rate ¹		Average Trip Length (miles) ²			Trip Type (%) ³			Trip Purpose (%) ⁴		
	Weekday	Saturday/Sunday	Commercial-Customer Trips (C-C)	Commercial-Work Trips (C-W)	Commercial-Nonwork Trips (C-NW)	Primary	Diverted	Pass-By	Commercial-Customer Trips(C-C)	Commercial-Work Trips (C-W)	Commercial-Nonwork Trips (C-NW)
Commercial User Defined (Casino/Event Center/Convention)	53.71	82.91	55	Default	10	100	0	0	77	5	18
Recreation Hotel	2.0	2.05	55	Default	10	Default	Default	Default	Default	Default	Default

Notes:

- 1 Trip Generation Rates for Casino, Event Center and Convention Center adjusted for consistency with Traffic Impact Analysis Report (TJKM, 2022).
- 2 Average trip length for non-work trips based on distance from Santa Rosa area to project site. Average trip length for customer trips based on the market analysis (Meister, 2021).
- 3 All Trip Type percentages, with exception of the Casino/Event Center/Convention, are CalEEMod default values. The Casino/Event Center/Convention Trip Type percentage conservatively assumes that all trips are primary.
- 4 All Trip Purpose percentages, with exception of the Casino/Event Center/Convention, are CalEEMod default values. The Casino/Event Center/Convention Trip Purpose is based on estimated employee and service trips.

Alternative B – Energy Use

Land Use Subtype	Title-24 Electricity Energy Intensity (KWhr/size/yr)	Nontitle-24 Electricity Energy Intensity (KWhr/size/yr)	Lighting Energy Intensity (KWhr/size/yr)	Title-24 Natural Gas Intensity (KBtu/size/yr)	Non-title-24 Natural Gas Intensity (KBtu/size/yr)
User Defined (Casino, Event Center, Convention)	7.35	23.69	6.78	35.56	138.46
Hotel	Default	Default	Default	Default	Default
Unenclosed Parking Structure with Elevator	Default	Default	Default	Default	Default
Parking Lot	Default	Default	Default	Default	Default

Notes: Casino, Event Center, Convention energy use based on CalEEMod default values for quality restaurant energy use.

Alternative B – Off-Road Equipment Mitigation Inputs

Equipment Type	Engine Tier	Number of Equipment Mitigated	Diesel Particulate Filter (DPF) Level 2014
Scrapers	No Change	0	No Change
All Other Equipment	Tier 3	All	3

Mitigation Measures incorporated into EA/TEIR

- The Tribe shall use Tier 3 construction equipment (with the exception of Tier 3 Scrapers, which are not widely available), using a minimum of 90 percent of the equipment's total horsepower, as well as construction equipment with Level 3 diesel particulate filters (DPF)
- The Tribe shall use soil stabilizer on unpaved roads.
- The Tribe shall apply water to exposed construction areas twice a day.
- The Tribe shall restrict vehicle speeds on the construction site to 15 miles per hour.
- The Tribe shall restrict construction vehicle idling to five minutes.
- The Tribe shall use energy efficient lighting
- The Tribe shall use reclaimed water for outdoor landscape irrigation (included as part of the Project Description; however, input as a mitigation measure for the purposes of CalEEMod).

Alternative C - Inputs

Input	Type of Input	Proposed Project	Source/Notes
Project Name	Project Name	Koi Nation Shiloh Resort and Casino Project	Project Description
Project Location	County	Sonoma (San Francisco)	Project Description
Climate zone	Climate Zone Number	4	Appendix F of CalEEMod User Guide
Land Use Setting	Urban or Rural	Rural	Site and Vicinity Figure
Start of Construction	Date	July 2026	Section 2 of the EA/TEIR
Operational Year	1st year of operation after full buildout.	2028	Section 2 of the EA/TEIR
Utility Company	Utility Company Name	PG&E	Section 2 of the EA/TEIR
Land Use Type and Subtype	Residential, Commercial, Recreation, etc.	See Table 1	See Table 1
Unit Amount	Size of Buildings or Number of units for each Land Use Type.	See Table 1	See Table 1
Lot Acreage	Acreage of each Land Use Type	See Table 1	See Table 1
Population	Population based on persons/household	Default	Default
Construction Phases	Type of construction phase (Demo, Site Prep, etc.) and beginning and ending dates	See Table 2	See Table 2
Off-Road Equipment	Type of equipment (Excavator, Dozer, etc.) and number of units per construction phase	See Table 2	See Table 2
Dust From Material Haul	Import/Export Material (Cu Yd or Tons)	10,000 CY import	Grading and Hydrology Report (Section 3.4)
	Total Acres Graded	25	Site plan
Demolition	Sq ft or tons of Demo (Tons or Sqft)	6,400 sq ft	Google Earth, 2022
Construction Trip Gen Rate	Average number of one-way trips per day	Default	Defaults
Operational Trip Reductions	% reduction in trips.	See Table 3	See Table 3
Operational Trip Gen Rate and trip length	Trips and trip lengths	See Table 3	See Table 3
Area Sources	Hearths – # of wood-burning fireplaces, # of gas fireplaces, and # of units with no fireplace.	NA	No hearths are included in project design.

Alternative C - Inputs (cont.)

Input	Type of Input	Proposed Project	Source/Notes
Energy Use	Project Specific Emission Factors.	See Table 4	See Table 4
Water and Wastewater	Indoor and outdoor water use for each Land Use Subtype in gallons per year.	See Table 1	See Table 1
Solid waste	Tons of solid waste generated per year	133 ton/year	EA/TEIR Section 3.10
	Land Fill No Gas Capture, Landfill Capture Gas Flare Rate	Default	CalEEMod 2020.4.0 Default
Operational off-road equipment	Excavator, Dozer, etc.	--	--
Stationary Sources	Emergency Generators	Two 1,650-KW (2,447 HP) emergency gen/sets operating 72 hours per year	Section 2 of the EA/TEIR
	Boilers	Two 0.5-MMBtu/hr boilers	Based on similar projects
Land Use Change	Vegetation land use type (cropland, etc.) and initial and final acreage	Initial Cropland: 61.7 acres Final Cropland: 38 acres	GIS analysis
Sequestration	Type and net number of new trees added	Not Applicable	Insignificant increase in the number of trees on project site for modeling purposes

Alternative C – Mitigation Inputs

Mitigation Input Category	CAPCOA Mitigation Number	Include in Model? (yes/no)	Type of Input / Unit	Project Specific Inputs	
				Inputs	Source/Notes
Off-Road Equipment	C-1	Yes	Engine Type, DPF Level, and Oxidation Catalyst	See Off-Road Equipment Mitigation Inputs	See Off-Road Equipment Mitigation Inputs
Soil Stabilizer for Unpaved Roads	N/A	Yes	PM ₁₀ (% Reduction)	10%	Default % Reduction.
	N/A		PM _{2.5} (% Reduction)	10%	Default % Reduction.
Water Exposed Area	N/A	Yes	Frequency (per day)	2 times per day	Section 2 of the EA/TEIR
	N/A		PM ₁₀ (% Reduction)	55%	Default % Reduction.
	N/A		PM _{2.5} (% Reduction)	55%	Default % Reduction.
Replace Ground Cover of Area Disturbed	N/A	No	PM ₁₀ (% Reduction)	--	
	N/A		PM _{2.5} (% Reduction)	--	
Unpaved Road Mitigation	N/A	No	Moisture Content (%)	--	--
	N/A	Yes	Vehicle Speed (mph)	15 mph	Section 2 of the EA/TEIR
Type of Residential	N/A	No	Type of Residential	--	--
Increased Density	LUT-1	No	Dwelling Units/Acre	--	--
			Job/Job Acre	--	--
Increased Diversity	LUT-3	No	Yes or No	--	--
Improved Walkability Design	LUT-9	No	Intersections/Square Miles	--	--
Improve Destination Accessibility	LUT-4	No	Distance to Downtown/Job Ctr	--	
Increased Transit Accessibility	LUT-5	No	Average Distance to Transit Station (miles)	--	
Integrated Below Market Rate Housing	LUT-6	No	# Dwelling Units Below Market Rate	--	
Improve Pedestrian Network	SDT-1	No	Yes or No; Project Site, Project Site and Connecting off-site, and Rural	--	--

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Alternative C – Mitigation Inputs (cont.)

Mitigation Input Category	CAPCOA Mitigation Number	Include in Model? (yes/no)	Type of Input / Unit	Project Specific Inputs	
				Inputs	Source/Notes
Provide Traffic Calming Measures	SDT-2	No	% Streets with Improvement	--	--
		No	% Intersections with Improvement	--	
Implement Neighborhood Electric Vehicle (NEV) Network	SDT-3	No	% of streets equipped with NEV network.	--	
Limit Parking Supply	PDT-1	No	% Reduction in Spaces	--	
Unbundled Parking Costs	PDT-2	No	Monthly Parking Costs (\$)	--	
On-Street Market Pricing	PDT-3	No	% Increase in Price	--	
Provide a Bus Rapid Transit System	TST-1	No	% Lines BRT	---	--
Expand Transit Network	TST-3	No	% Increase Transit Coverage	--	
Increase Transit Frequency	TST-4	No	Level of Implementation	--	
		No	% Reduction in Headways	--	
Implement Trip Reduction Program	TRT-1, TRT-2	No	% employee eligible	---	
		No	Program Type	---	--
Transit Subsidy	TRT-4	No	% employee eligible	--	
		No	Daily Transit Subsidy Amount (\$)	--	
Implement Employee Parking "Cash-Out"	TRT-15	No	% employee eligible	--	
Workplace Parking Charge	TRT-14	No	% employee eligible	--	
		No	Daily Parking Charge (\$)	--	--
Encourage Telecommuting and Alternative Work Schedules	TRT-6	No	% employee work 9/80	--	
		No	% employee work 4/40	--	
		No	% employee telecommute 1.5 days	-- --	

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Alternative C – Mitigation Inputs (cont.)

Mitigation Input Category	CAPCOA Mitigation Number	Include in Model? (yes/no)	Type of Input / Unit	Project Specific Inputs	
				Inputs	Source/Notes
Market Commute Trip Reduction Option	TRT-7	No	% employee eligible	--	--
Employee Vanpool/Shuttle	TRT-11	No	% employee eligible	--	--
		No	% vanpool mode share	--	--
Provide Ride Sharing Program	TRT-3	No	% employee eligible	--	--
Implement School Bus Program	TRT-13	No	% family using	--	--
Only Natural Gas Hearth	N/A	No	Yes or No	--	--
No hearth	N/A	No	Yes or No	--	--
Use of Low VOC Cleaning Supplies	N/A	No	Yes or No	--	--
Use low VOC Paint (Residential Interior)	N/A	Yes	Emission Factor (EF) (g/l)	100	BAAQMD Rule 3 Architectural Coatings (Nonflat Coating)
Use low VOC Paint (Residential Exterior)	N/A	Yes	EF (g/l)	100	BAAQMD Rule 3 Architectural Coatings (Nonflat Coating)
Use low VOC Paint (Non-residential Interior)	N/A	Yes	EF (g/l)	100	BAAQMD Rule 3 Architectural Coatings (Nonflat Coating)
Use low VOC Paint (Non-residential Exterior)	N/A	Yes	EF (g/l)	100	BAAQMD Rule 3 Architectural Coatings (Nonflat Coating)
Electric Lawnmower	A-1	No	Percent of equipment type that will be electric.	--	
Electric Leafblower	A-1	No	Percent of equipment type that will be electric.	--	
Electric Chainsaw	A-1	No	Percent of equipment type that will be electric.	--	
Exceed Title 24	BE-1	No	Percentage improvement selected for the Project.	--	

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Alternative C – Mitigation Inputs (cont.)

Mitigation Input Category	CAPCOA Mitigation Number	Include in Model? (yes/no)	Type of Input / Unit	Project Specific Inputs	
				Inputs	Source/Notes
Install High Efficiently Lighting	LE-1	Yes	% Lighting Energy Reduction	16	CAPCOA, 2010.
On-site Renewable Energy	E-1, AE-2, AE-3	No	kWh Generated	--	--
		No	% of Electricity Use Generated	--	--
Energy Efficient Appliances	BE-4	Yes	Appliance Type, Land Use Subtype, % Improvement	Use Default Values	Defaults
Apply Water Conservation Strategy	WUW-2	No	% Reduction Indoor	--	--
		No	% Reduction Outdoor	--	--
Use Reclaimed Water	WSW-1	No	% Indoor Water Use	--	--
		No	% Outdoor Water Use	--	--
Use Grey Water	WSW-2	No	% Indoor Water Use	--	--
		No	% Outdoor Water Use	--	--
Install Low-Flow Bathroom Faucet	WUW-1	No	% Reduction in flow	--	Included in Project
Install Low-flow Kitchen Faucet	WUW-1	No	% Reduction in flow	--	Included in Project
Install Low-flow Toilet	WUW-1	No	% Reduction in flow	--	Included in Project
Install Low-flow Shower	WUW-1	No	% Reduction in flow	--	Included in Project
Turf Reduction	WUW-5	No	Turf Reduction Area (sqft)	--	--
		No	% Reduction turf	--	--
Use Water-Efficient Irrigation Systems	WUW-4	No	% Reduction	--	--
Water Efficient Landscape	WUW-3	No	Maximum Applied Water Allowance (MAWA) (gal/yr)	--	
		No	Estimated Total Water Use (ETWU) (gal/yr)	--	--
Institute Recycling and Composting Service	SW-1	Yes	% Reduction in Waste Disposal	50%	Tribe will use County facilities which are required to divert 50 percent of waste from landfills

Alternative C – Land Use Inputs

Land Use Inputs						
Land Use Type	Land Use Subtype ¹	Unit Amount	Size Metric	Lot Acreage	Square Feet	Water Demand (gal/yr) ²
Recreational	Quality Restaurant (Visitor Center)	5.0	ksf	25	5,000	6,935,000
Commercial	User Defined (Winery)	20.0	ksf	0	20,000	
Recreational	Hotel	200	rooms	0	161,400	
Parking	Parking Lot	492	spaces	0	145,800	

Notes:

ksf = 1,000 square feet

1 - Source: Section 2, Project Description.

2 - Source: Water and Wastewater Feasibility Report, Appendix A.

Alternative C – Construction Equipment

Equipment	Construction Phase Activities					
	Demolition (7/1/26 – 7/14/26)	Site Preparation (7/1/26 – 7/21/26)	Grading (7/22/26 – 9/15/26)	Construction (9/16/26 – 12/28/27)	Paving (6/15/27 – 10/18/27)	Architectural Coating (3/23/27 – 12/27/27)
All Heavy Equipment	Default	Default	Default	Default	Default	Default
Worker Trips	Default	Default	Default	Default	Default	Default
Soil Haul Trips	Default	Default	Default	Default	Default	Default
Soil Haul	Default	Default	Default	Default	Default	Default
Total Days	10	15	40	335	90	200

Alternative C – Trip Generation

Land Use Subtype	Daily Trip Generation Rate ¹		Average Trip Length (miles) ²			Trip Type (%) ³			Trip Purpose (%) ⁴		
	Weekday	Saturday/Sunday	Commercial-Customer Trips (C-C)	Commercial - Work Trips (C-W)	Commercial-Nonwork Trips (C-NW)	Primary	Diverted	Pass-By	Commercial-Customer Trips(C-C)	Commercial-Work Trips (C-W)	Commercial-Nonwork Trips (C-NW)
Recreational Quality Restaurant (Visitor Center)	80	208.6	55	Default	10	Default	Default	Default	Default	Default	Default
Commercial User Defined (Winery)	4.5	1.15	Default	Default	10	80	0	20	10	37	53
Recreational Hotel	7.99	8.19/Default	55	Default	10	Default	Default	Default	Default	Default	Default

Notes:

- 1 Trip Generation Rates adjusted for consistency with Traffic Impact Analysis Report (TJKM, 2022).
- 2 Average trip length for non-work trips based on distance from Santa Rosa area to project site. Average trip length for customer trips based on the market analysis (Meister, 2021).
- 3 All Trip Type percentages, with exception of the Winery, are CalEEMod default values
- 4 All Trip Purpose percentages, with exception of the Winery, are CalEEMod default values.

Alternative C – Energy Use

Land Use Subtype	Title-24 Electricity Energy Intensity (KWhr/size/yr)	Nontitle-24 Electricity Energy Intensity (KWhr/size/yr)	Lighting Energy Intensity (KWhr/size/yr)	Title-24 Natural Gas Intensity (KBtu/size/yr)	Non-title-24 Natural Gas Intensity (KBtu/size/yr)
Quality Restaurant (Visitor Center)	Default	Default	Default	Default	Default
User Defined (Winery)	4.52	22.3	5.35	59.8	147.47
Hotel	Default	Default	Default	Default	Default
Unenclosed Parking Structure with Elevator	Default	Default	Default	Default	Default
Parking Lot	Default	Default	Default	Default	Default

Notes: Winery based on CalEEMod default values for quality restaurant energy use.

Alternative C – Off-Road Equipment Mitigation Inputs

Equipment Type	Engine Tier	Number of Equipment Mitigated	Diesel Particulate Filter (DPF) Level 2014
Scrapers	No Change	0	No Change
All Other Equipment	Tier 3	All	3

Mitigation Measures incorporated into EA/TEIR

- The Tribe shall use Tier 3 construction equipment (with the exception of Tier 3 Scrapers, which are not widely available), using a minimum of 90 percent of the equipment's total horsepower, as well as construction equipment with Level 3 diesel particulate filters (DPF)
- The Tribe shall use soil stabilizer on unpaved roads.
- The Tribe shall apply water to exposed construction areas twice a day.
- The Tribe shall restrict vehicle speeds on the construction site to 15 miles per hour.
- The Tribe shall restrict construction vehicle idling to five minutes.
- The Tribe shall use energy efficient lighting
- The Tribe shall use reclaimed water for outdoor landscape irrigation (included as part of the Project Description; however, input as a mitigation measure for the purposes of CalEEMod).

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**Koi Nation Shiloh Resort and Casino - Alt A
Sonoma-San Francisco County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Commercial	122.60	User Defined Unit	51.50	410,572.00	0
User Defined Commercial	74.20	User Defined Unit	0.00	74,185.00	0
User Defined Commercial	53.40	User Defined Unit	0.00	0.00	0
Parking Lot	475.30	1000sqft	0.00	475,300.00	0
Unenclosed Parking with Elevator	1,214.10	1000sqft	0.00	1,214,100.00	0
Hotel	400.00	Room	0.00	268,930.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	75
Climate Zone	4			Operational Year	2028
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See input tables for assumptions.

Construction Phase - See input tables for assumptions.

Demolition -

Grading - See input tables for assumptions.

Vehicle Trips - See input tables for assumptions.

Energy Use - See input tables for assumptions.

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Water And Wastewater - See input tables for assumptions.

Solid Waste - See input tables for assumptions.

Land Use Change - See input tables for assumptions.

Construction Off-road Equipment Mitigation - See input tables for assumptions.

Area Mitigation - Compliance with BAAQMD Rule 3

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Process Boilers -

Area Coating -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	100
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	100
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	70.00	10.00
tblConstructionPhase	NumDays	40.00	15.00
tblConstructionPhase	NumDays	110.00	40.00
tblConstructionPhase	NumDays	1,110.00	335.00
tblConstructionPhase	NumDays	75.00	90.00
tblConstructionPhase	NumDays	75.00	200.00
tblEnergyUse	LightingElect	0.00	6.78
tblEnergyUse	NT24E	0.00	23.69
tblEnergyUse	NT24NG	0.00	138.46
tblEnergyUse	T24E	0.00	7.35
tblEnergyUse	T24NG	0.00	35.56
tblGrading	AcresOfGrading	120.00	51.50
tblGrading	AcresOfGrading	22.50	51.50
tblGrading	MaterialImported	0.00	10,000.00
tblLandUse	LandUseSquareFeet	0.00	410,572.00
tblLandUse	LandUseSquareFeet	0.00	74,185.00
tblLandUse	LandUseSquareFeet	580,800.00	268,930.00
tblLandUse	LotAcreage	0.00	51.50
tblLandUse	LotAcreage	10.91	0.00
tblLandUse	LotAcreage	27.87	0.00
tblLandUse	LotAcreage	13.33	0.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

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tblSolidWaste	SolidWasteGenerationRate	219.00	1,919.00
tblStationaryBoilersUse	AnnualHeatInput	0.00	14,600.00
tblStationaryBoilersUse	BoilerRatingValue	0.00	0.50
tblStationaryBoilersUse	DailyHeatInput	0.00	40.00
tblStationaryBoilersUse	NumberOfEquipment	0.00	4.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	2,447.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	84.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	4.00
tblVehicleTrips	CC_TL	6.60	55.00
tblVehicleTrips	CC_TL	6.60	55.00
tblVehicleTrips	CC_TTP	0.00	77.00
tblVehicleTrips	CNW_TL	6.60	10.00
tblVehicleTrips	CNW_TL	6.60	10.00
tblVehicleTrips	CNW_TTP	0.00	18.00
tblVehicleTrips	CW_TTP	0.00	5.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	8.19	2.05
tblVehicleTrips	ST_TR	0.00	59.79
tblVehicleTrips	SU_TR	5.95	2.05
tblVehicleTrips	SU_TR	0.00	59.79
tblVehicleTrips	WD_TR	8.36	2.00
tblVehicleTrips	WD_TR	0.00	41.62
tblWater	IndoorWaterUseRate	10,146,708.00	62,050,000.00
tblWater	OutdoorWaterUseRate	1,127,412.00	0.00

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2026	0.2650	2.1353	2.4140	8.2300e-003	0.7156	0.0609	0.7765	0.2561	0.0567	0.3128	0.0000	759.7076	759.7076	0.0821	0.0518	777.2019
2027	4.9573	4.5113	6.5062	0.0226	1.4521	0.1088	1.5610	0.3935	0.1023	0.4958	0.0000	2,093.826 1	2,093.826 1	0.1416	0.1530	2,142.966 1
Maximum	4.9573	4.5113	6.5062	0.0226	1.4521	0.1088	1.5610	0.3935	0.1023	0.4958	0.0000	2,093.826 1	2,093.826 1	0.1416	0.1530	2,142.966 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	tons/yr										MT/yr					
2026	0.2650	2.1353	2.4140	8.2300e-003	0.5428	0.0609	0.6037	0.1752	0.0567	0.2319	0.0000	759.7073	759.7073	0.0821	0.0518	777.2016
2027	4.9573	4.5113	6.5062	0.0226	1.4521	0.1088	1.5610	0.3935	0.1023	0.4958	0.0000	2,093.825 6	2,093.825 6	0.1416	0.1530	2,142.965 6
Maximum	4.9573	4.5113	6.5062	0.0226	1.4521	0.1088	1.5610	0.3935	0.1023	0.4958	0.0000	2,093.825 6	2,093.825 6	0.1416	0.1530	2,142.965 6

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	ROG	NOx	CO	SO2	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	7.97	0.00	7.39	12.46	0.00	10.01	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2026	9-30-2026	1.2092	1.2092
2	10-1-2026	12-31-2026	1.2001	1.2001
3	1-1-2027	3-31-2027	1.3000	1.3000
4	4-1-2027	6-30-2027	2.6407	2.6407
5	7-1-2027	9-30-2027	2.9286	2.9286
		Highest	2.9286	2.9286

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

2.2 Overall Operational

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	3.4829	1.9000e-004	0.0214	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0418	0.0418	1.1000e-004	0.0000	0.0445
Energy	0.5185	4.7140	3.9598	0.0283		0.3583	0.3583		0.3583	0.3583	0.0000	7,245.5243	7,245.5243	0.4403	0.1355	7,296.9210
Mobile	20.1613	37.4602	255.1561	0.6258	73.1508	0.5081	73.6589	19.6012	0.4763	20.0775	0.0000	57,816.5241	57,816.5241	2.7485	2.5496	58,645.0302
Stationary	0.8321	3.7177	4.5257	0.0204		0.3168	0.3168		0.3168	0.3168	0.0000	3,429.5881	3,429.5881	0.1036	0.0000	3,432.1788
Waste						0.0000	0.0000		0.0000	0.0000	389.5397	0.0000	389.5397	23.0211	0.0000	965.0680
Water						0.0000	0.0000		0.0000	0.0000	19.6856	31.0651	50.7507	2.0269	0.0484	115.8323
Total	24.9949	45.8922	263.6630	0.6745	73.1508	1.1833	74.3341	19.6012	1.1514	20.7527	409.2253	68,522.7433	68,931.9686	28.3406	2.7335	70,455.0749

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.4393	1.9000e-004	0.0214	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0418	0.0418	1.1000e-004	0.0000	0.0445
Energy	0.5185	4.7140	3.9598	0.0283		0.3583	0.3583		0.3583	0.3583	0.0000	7,153.5976	7,153.5976	0.4255	0.1337	7,204.0853
Mobile	20.1613	37.4602	255.1561	0.6258	73.1508	0.5081	73.6589	19.6012	0.4763	20.0775	0.0000	57,816.5241	57,816.5241	2.7485	2.5496	58,645.0302
Stationary	0.8321	3.7177	4.5257	0.0204		0.3168	0.3168		0.3168	0.3168	0.0000	3,429.5881	3,429.5881	0.1036	0.0000	3,432.1788
Waste						0.0000	0.0000		0.0000	0.0000	194.7698	0.0000	194.7698	11.5106	0.0000	482.5340
Water						0.0000	0.0000		0.0000	0.0000	17.7170	27.9586	45.6756	1.8242	0.0435	104.2491
Total	24.9512	45.8922	263.6630	0.6745	73.1508	1.1833	74.3341	19.6012	1.1514	20.7527	212.4869	68,427.7101	68,640.1970	16.6125	2.7269	69,868.1219

	ROG	NOx	CO	SO2	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	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.08	0.14	0.42	41.38	0.24	0.83

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

2.3 Vegetation

Vegetation

	CO2e
Category	MT
Vegetation Land Change	-295.1200
Total	-295.1200

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	7/1/2026	7/14/2026	5	10	
2	Site Preparation	Site Preparation	7/1/2026	7/21/2026	5	15	
3	Grading	Grading	7/22/2026	9/15/2026	5	40	
4	Building Construction	Building Construction	9/16/2026	12/28/2027	5	335	
5	Paving	Paving	6/15/2027	10/18/2027	5	90	
6	Architectural Coating	Architectural Coating	3/23/2027	12/27/2027	5	200	

Acres of Grading (Site Preparation Phase): 51.5

Acres of Grading (Grading Phase): 51.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,130,531; Non-Residential Outdoor: 376,844; Striped Parking Area: 101,364 (Architectural Coating – sqft)

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

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	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

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	6	15.00	0.00	29.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	1,250.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

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Building Construction	9	978.00	400.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	196.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use DPF for Construction Equipment
- Use Soil Stabilizer
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2026

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					3.1500e-003	0.0000	3.1500e-003	4.8000e-004	0.0000	4.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0105	0.0960	0.0971	1.9000e-004		4.2600e-003	4.2600e-003		3.9600e-003	3.9600e-003	0.0000	16.9988	16.9988	4.7500e-003	0.0000	17.1175
Total	0.0105	0.0960	0.0971	1.9000e-004	3.1500e-003	4.2600e-003	7.4100e-003	4.8000e-004	3.9600e-003	4.4400e-003	0.0000	16.9988	16.9988	4.7500e-003	0.0000	17.1175

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3.2 Demolition - 2026

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	3.0000e-005	2.0100e-003	4.5000e-004	1.0000e-005	2.4000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.8358	0.8358	3.0000e-005	1.3000e-004	0.8759
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	2.2000e-004	1.3000e-004	1.6400e-003	0.0000	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4316	0.4316	1.0000e-005	1.0000e-005	0.4356
Total	2.5000e-004	2.1400e-003	2.0900e-003	1.0000e-005	8.3000e-004	1.0000e-005	8.5000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	1.2674	1.2674	4.0000e-005	1.4000e-004	1.3115

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					1.4200e-003	0.0000	1.4200e-003	2.1000e-004	0.0000	2.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0105	0.0960	0.0971	1.9000e-004		4.2600e-003	4.2600e-003		3.9600e-003	3.9600e-003	0.0000	16.9988	16.9988	4.7500e-003	0.0000	17.1175
Total	0.0105	0.0960	0.0971	1.9000e-004	1.4200e-003	4.2600e-003	5.6800e-003	2.1000e-004	3.9600e-003	4.1700e-003	0.0000	16.9988	16.9988	4.7500e-003	0.0000	17.1175

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

3.2 Demolition - 2026

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	3.0000e-005	2.0100e-003	4.5000e-004	1.0000e-005	2.4000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.8358	0.8358	3.0000e-005	1.3000e-004	0.8759
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	2.2000e-004	1.3000e-004	1.6400e-003	0.0000	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4316	0.4316	1.0000e-005	1.0000e-005	0.4356
Total	2.5000e-004	2.1400e-003	2.0900e-003	1.0000e-005	8.3000e-004	1.0000e-005	8.5000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	1.2674	1.2674	4.0000e-005	1.4000e-004	1.3115

3.3 Site Preparation - 2026

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					0.1628	0.0000	0.1628	0.0774	0.0000	0.0774	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0186	0.1893	0.1343	2.9000e-004		8.1500e-003	8.1500e-003		7.5000e-003	7.5000e-003	0.0000	25.1002	25.1002	8.1200e-003	0.0000	25.3032
Total	0.0186	0.1893	0.1343	2.9000e-004	0.1628	8.1500e-003	0.1710	0.0774	7.5000e-003	0.0849	0.0000	25.1002	25.1002	8.1200e-003	0.0000	25.3032

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3.3 Site Preparation - 2026

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	3.9000e-004	2.3000e-004	2.9400e-003	1.0000e-005	1.0600e-003	1.0000e-005	1.0600e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.7768	0.7768	2.0000e-005	2.0000e-005	0.7841
Total	3.9000e-004	2.3000e-004	2.9400e-003	1.0000e-005	1.0600e-003	1.0000e-005	1.0600e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.7768	0.7768	2.0000e-005	2.0000e-005	0.7841

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					0.0733	0.0000	0.0733	0.0348	0.0000	0.0348	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0186	0.1893	0.1343	2.9000e-004		8.1500e-003	8.1500e-003		7.5000e-003	7.5000e-003	0.0000	25.1002	25.1002	8.1200e-003	0.0000	25.3032
Total	0.0186	0.1893	0.1343	2.9000e-004	0.0733	8.1500e-003	0.0814	0.0348	7.5000e-003	0.0423	0.0000	25.1002	25.1002	8.1200e-003	0.0000	25.3032

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3.3 Site Preparation - 2026

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	3.9000e-004	2.3000e-004	2.9400e-003	1.0000e-005	1.0600e-003	1.0000e-005	1.0600e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.7768	0.7768	2.0000e-005	2.0000e-005	0.7841
Total	3.9000e-004	2.3000e-004	2.9400e-003	1.0000e-005	1.0600e-003	1.0000e-005	1.0600e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.7768	0.7768	2.0000e-005	2.0000e-005	0.7841

3.4 Grading - 2026

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					0.1483	0.0000	0.1483	0.0692	0.0000	0.0692	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0580	0.5589	0.5266	1.2400e-003		0.0226	0.0226		0.0208	0.0208	0.0000	109.0124	109.0124	0.0353	0.0000	109.8939
Total	0.0580	0.5589	0.5266	1.2400e-003	0.1483	0.0226	0.1709	0.0692	0.0208	0.0901	0.0000	109.0124	109.0124	0.0353	0.0000	109.8939

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3.4 Grading - 2026

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	1.2400e-003	0.0865	0.0196	3.6000e-004	0.0104	6.1000e-004	0.0110	2.8500e-003	5.8000e-004	3.4300e-003	0.0000	36.0257	36.0257	1.1900e-003	5.7000e-003	37.7547
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	1.1500e-003	6.9000e-004	8.7200e-003	3.0000e-005	3.1400e-003	2.0000e-005	3.1600e-003	8.4000e-004	1.0000e-005	8.5000e-004	0.0000	2.3018	2.3018	7.0000e-005	7.0000e-005	2.3231
Total	2.3900e-003	0.0872	0.0283	3.9000e-004	0.0135	6.3000e-004	0.0142	3.6900e-003	5.9000e-004	4.2800e-003	0.0000	38.3274	38.3274	1.2600e-003	5.7700e-003	40.0778

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					0.0667	0.0000	0.0667	0.0312	0.0000	0.0312	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0580	0.5589	0.5266	1.2400e-003		0.0226	0.0226		0.0208	0.0208	0.0000	109.0123	109.0123	0.0353	0.0000	109.8937
Total	0.0580	0.5589	0.5266	1.2400e-003	0.0667	0.0226	0.0894	0.0312	0.0208	0.0520	0.0000	109.0123	109.0123	0.0353	0.0000	109.8937

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3.4 Grading - 2026

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	1.2400e-003	0.0865	0.0196	3.6000e-004	0.0104	6.1000e-004	0.0110	2.8500e-003	5.8000e-004	3.4300e-003	0.0000	36.0257	36.0257	1.1900e-003	5.7000e-003	37.7547
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	1.1500e-003	6.9000e-004	8.7200e-003	3.0000e-005	3.1400e-003	2.0000e-005	3.1600e-003	8.4000e-004	1.0000e-005	8.5000e-004	0.0000	2.3018	2.3018	7.0000e-005	7.0000e-005	2.3231
Total	2.3900e-003	0.0872	0.0283	3.9000e-004	0.0135	6.3000e-004	0.0142	3.6900e-003	5.9000e-004	4.2800e-003	0.0000	38.3274	38.3274	1.2600e-003	5.7700e-003	40.0778

3.5 Building Construction - 2026

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	0.0526	0.4801	0.6193	1.0400e-003		0.0203	0.0203		0.0191	0.0191	0.0000	89.2890	89.2890	0.0210	0.0000	89.8137
Total	0.0526	0.4801	0.6193	1.0400e-003		0.0203	0.0203		0.0191	0.0191	0.0000	89.2890	89.2890	0.0210	0.0000	89.8137

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3.5 Building Construction - 2026

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	0.0141	0.6564	0.1823	2.6900e-003	0.0904	3.4100e-003	0.0938	0.0261	3.2700e-003	0.0294	0.0000	262.2661	262.2661	5.3700e-003	0.0397	274.2210
Worker	0.1082	0.0651	0.8211	2.3600e-003	0.2955	1.5200e-003	0.2970	0.0787	1.4000e-003	0.0801	0.0000	216.6694	216.6694	6.3400e-003	6.2100e-003	218.6793
Total	0.1223	0.7215	1.0034	5.0500e-003	0.3859	4.9300e-003	0.3908	0.1048	4.6700e-003	0.1095	0.0000	478.9355	478.9355	0.0117	0.0459	492.9003

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	0.0526	0.4801	0.6193	1.0400e-003		0.0203	0.0203		0.0191	0.0191	0.0000	89.2889	89.2889	0.0210	0.0000	89.8136
Total	0.0526	0.4801	0.6193	1.0400e-003		0.0203	0.0203		0.0191	0.0191	0.0000	89.2889	89.2889	0.0210	0.0000	89.8136

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3.5 Building Construction - 2026

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	0.0141	0.6564	0.1823	2.6900e-003	0.0904	3.4100e-003	0.0938	0.0261	3.2700e-003	0.0294	0.0000	262.2661	262.2661	5.3700e-003	0.0397	274.2210
Worker	0.1082	0.0651	0.8211	2.3600e-003	0.2955	1.5200e-003	0.2970	0.0787	1.4000e-003	0.0801	0.0000	216.6694	216.6694	6.3400e-003	6.2100e-003	218.6793
Total	0.1223	0.7215	1.0034	5.0500e-003	0.3859	4.9300e-003	0.3908	0.1048	4.6700e-003	0.1095	0.0000	478.9355	478.9355	0.0117	0.0459	492.9003

3.5 Building Construction - 2027

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	0.1764	1.6086	2.0749	3.4800e-003		0.0681	0.0681		0.0640	0.0640	0.0000	299.1761	299.1761	0.0703	0.0000	300.9343
Total	0.1764	1.6086	2.0749	3.4800e-003		0.0681	0.0681		0.0640	0.0640	0.0000	299.1761	299.1761	0.0703	0.0000	300.9343

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3.5 Building Construction - 2027

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	0.0459	2.1728	0.6003	8.8400e-003	0.3029	0.0113	0.3142	0.0876	0.0108	0.0984	0.0000	861.3650	861.3650	0.0183	0.1303	900.6371
Worker	0.3398	0.1974	2.5795	7.6800e-003	0.9901	4.7500e-003	0.9949	0.2635	4.3700e-003	0.2679	0.0000	704.4556	704.4556	0.0194	0.0196	710.7849
Total	0.3857	2.3703	3.1798	0.0165	1.2930	0.0160	1.3090	0.3511	0.0151	0.3663	0.0000	1,565.8206	1,565.8206	0.0377	0.1499	1,611.4220

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	0.1764	1.6086	2.0749	3.4800e-003		0.0681	0.0681		0.0640	0.0640	0.0000	299.1757	299.1757	0.0703	0.0000	300.9339
Total	0.1764	1.6086	2.0749	3.4800e-003		0.0681	0.0681		0.0640	0.0640	0.0000	299.1757	299.1757	0.0703	0.0000	300.9339

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3.5 Building Construction - 2027

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	0.0459	2.1728	0.6003	8.8400e-003	0.3029	0.0113	0.3142	0.0876	0.0108	0.0984	0.0000	861.3650	861.3650	0.0183	0.1303	900.6371
Worker	0.3398	0.1974	2.5795	7.6800e-003	0.9901	4.7500e-003	0.9949	0.2635	4.3700e-003	0.2679	0.0000	704.4556	704.4556	0.0194	0.0196	710.7849
Total	0.3857	2.3703	3.1798	0.0165	1.2930	0.0160	1.3090	0.3511	0.0151	0.3663	0.0000	1,565.8206	1,565.8206	0.0377	0.1499	1,611.4220

3.6 Paving - 2027

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	0.0412	0.3862	0.6560	1.0300e-003		0.0188	0.0188		0.0173	0.0173	0.0000	90.0867	90.0867	0.0291	0.0000	90.8150
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0412	0.3862	0.6560	1.0300e-003		0.0188	0.0188		0.0173	0.0173	0.0000	90.0867	90.0867	0.0291	0.0000	90.8150

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3.6 Paving - 2027

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	1.8200e-003	1.0600e-003	0.0138	4.0000e-005	5.3000e-003	3.0000e-005	5.3200e-003	1.4100e-003	2.0000e-005	1.4300e-003	0.0000	3.7690	3.7690	1.0000e-004	1.0000e-004	3.8029
Total	1.8200e-003	1.0600e-003	0.0138	4.0000e-005	5.3000e-003	3.0000e-005	5.3200e-003	1.4100e-003	2.0000e-005	1.4300e-003	0.0000	3.7690	3.7690	1.0000e-004	1.0000e-004	3.8029

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	0.0412	0.3862	0.6560	1.0300e-003		0.0188	0.0188		0.0173	0.0173	0.0000	90.0865	90.0865	0.0291	0.0000	90.8149
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0412	0.3862	0.6560	1.0300e-003		0.0188	0.0188		0.0173	0.0173	0.0000	90.0865	90.0865	0.0291	0.0000	90.8149

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3.6 Paving - 2027

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	1.8200e-003	1.0600e-003	0.0138	4.0000e-005	5.3000e-003	3.0000e-005	5.3200e-003	1.4100e-003	2.0000e-005	1.4300e-003	0.0000	3.7690	3.7690	1.0000e-004	1.0000e-004	3.8029
Total	1.8200e-003	1.0600e-003	0.0138	4.0000e-005	5.3000e-003	3.0000e-005	5.3200e-003	1.4100e-003	2.0000e-005	1.4300e-003	0.0000	3.7690	3.7690	1.0000e-004	1.0000e-004	3.8029

3.7 Architectural Coating - 2027

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	4.2824					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1146	0.1809	3.0000e-004		5.1500e-003	5.1500e-003		5.1500e-003	5.1500e-003	0.0000	25.5325	25.5325	1.3900e-003	0.0000	25.5674
Total	4.2995	0.1146	0.1809	3.0000e-004		5.1500e-003	5.1500e-003		5.1500e-003	5.1500e-003	0.0000	25.5325	25.5325	1.3900e-003	0.0000	25.5674

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3.7 Architectural Coating - 2027

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	0.0528	0.0307	0.4007	1.1900e-003	0.1538	7.4000e-004	0.1546	0.0409	6.8000e-004	0.0416	0.0000	109.4413	109.4413	3.0100e-003	3.0500e-003	110.4246
Total	0.0528	0.0307	0.4007	1.1900e-003	0.1538	7.4000e-004	0.1546	0.0409	6.8000e-004	0.0416	0.0000	109.4413	109.4413	3.0100e-003	3.0500e-003	110.4246

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	4.2824					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1146	0.1809	3.0000e-004		5.1500e-003	5.1500e-003		5.1500e-003	5.1500e-003	0.0000	25.5325	25.5325	1.3900e-003	0.0000	25.5673
Total	4.2995	0.1146	0.1809	3.0000e-004		5.1500e-003	5.1500e-003		5.1500e-003	5.1500e-003	0.0000	25.5325	25.5325	1.3900e-003	0.0000	25.5673

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3.7 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0528	0.0307	0.4007	1.1900e-003	0.1538	7.4000e-004	0.1546	0.0409	6.8000e-004	0.0416	0.0000	109.4413	109.4413	3.0100e-003	3.0500e-003	110.4246
Total	0.0528	0.0307	0.4007	1.1900e-003	0.1538	7.4000e-004	0.1546	0.0409	6.8000e-004	0.0416	0.0000	109.4413	109.4413	3.0100e-003	3.0500e-003	110.4246

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive 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	20.1613	37.4602	255.1561	0.6258	73.1508	0.5081	73.6589	19.6012	0.4763	20.0775	0.0000	57,816.5241	57,816.5241	2.7485	2.5496	58,645.0302
Unmitigated	20.1613	37.4602	255.1561	0.6258	73.1508	0.5081	73.6589	19.6012	0.4763	20.0775	0.0000	57,816.5241	57,816.5241	2.7485	2.5496	58,645.0302

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	800.00	820.00	820.00	7,648,879	7,648,879
Parking Lot	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
User Defined Commercial	5,102.61	7,330.25	7330.25	93,765,911	93,765,911
User Defined Commercial	3,088.20	4,436.42	4436.42	56,749,026	56,749,026
User Defined Commercial	2,222.51	3,192.79	3192.79	40,840,943	40,840,943
Total	11,213.32	15,779.46	15,779.46	199,004,760	199,004,760

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hotel	14.70	55.00	10.00	19.40	61.60	19.00	58	38	4
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
User Defined Commercial	14.70	55.00	10.00	5.00	77.00	18.00	100	0	0
User Defined Commercial	14.70	55.00	10.00	5.00	77.00	18.00	100	0	0
User Defined Commercial	14.70	55.00	10.00	5.00	77.00	18.00	100	0	0

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4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hotel	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580
Parking Lot	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580
Unenclosed Parking with Elevator	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580
User Defined Commercial	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive 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	2,021.8067	2,021.8067	0.3271	0.0397	2,041.7988
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,113.7334	2,113.7334	0.3420	0.0415	2,134.6345
NaturalGas Mitigated	0.5185	4.7140	3.9598	0.0283		0.3583	0.3583		0.3583	0.3583	0.0000	5,131.7909	5,131.7909	0.0984	0.0941	5,162.2866
NaturalGas Unmitigated	0.5185	4.7140	3.9598	0.0283		0.3583	0.3583		0.3583	0.3583	0.0000	5,131.7909	5,131.7909	0.0984	0.0941	5,162.2866

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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					
Hotel	1.18087e+007	0.0637	0.5789	0.4862	3.4700e-003		0.0440	0.0440		0.0440	0.0440	0.0000	630.1581	630.1581	0.0121	0.0116	633.9028
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	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
User Defined Commercial	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
User Defined Commercial	1.29097e+007	0.0696	0.6328	0.5316	3.8000e-003		0.0481	0.0481		0.0481	0.0481	0.0000	688.9094	688.9094	0.0132	0.0126	693.0032
User Defined Commercial	7.14477e+007	0.3853	3.5023	2.9420	0.0210		0.2662	0.2662		0.2662	0.2662	0.0000	3,812.7235	3,812.7235	0.0731	0.0699	3,835.3806
Total		0.5185	4.7140	3.9598	0.0283		0.3583	0.3583		0.3583	0.3583	0.0000	5,131.7909	5,131.7909	0.0984	0.0941	5,162.2866

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Hotel	1.18087e+007	0.0637	0.5789	0.4862	3.4700e-003		0.0440	0.0440		0.0440	0.0440	0.0000	630.1581	630.1581	0.0121	0.0116	633.9028
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	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
User Defined Commercial	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
User Defined Commercial	1.29097e+007	0.0696	0.6328	0.5316	3.8000e-003		0.0481	0.0481		0.0481	0.0481	0.0000	688.9094	688.9094	0.0132	0.0126	693.0032
User Defined Commercial	7.14477e+007	0.3853	3.5023	2.9420	0.0210		0.2662	0.2662		0.2662	0.2662	0.0000	3,812.7235	3,812.7235	0.0731	0.0699	3,835.3806
Total		0.5185	4.7140	3.9598	0.0283		0.3583	0.3583		0.3583	0.3583	0.0000	5,131.7909	5,131.7909	0.0984	0.0941	5,162.2866

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	1.99008e+006	184.1299	0.0298	3.6100e-003	185.9506
Parking Lot	166355	15.3918	2.4900e-003	3.0000e-004	15.5440
Unenclosed Parking with Elevator	2.35535e+006	217.9262	0.0353	4.2700e-003	220.0811
User Defined Commercial	0	0.0000	0.0000	0.0000	0.0000
User Defined Commercial	1.55278e+007	1,436.6937	0.2324	0.0282	1,450.9000
User Defined Commercial	2.80568e+006	259.5918	0.0420	5.0900e-003	262.1587
Total		2,113.7334	0.3420	0.0414	2,134.6345

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

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	1.88896e+006	174.7741	0.0283	3.4300e-003	176.5023
Parking Lot	139738	12.9291	2.0900e-003	2.5000e-004	13.0570
Unenclosed Parking with Elevator	2.01541e+006	186.4730	0.0302	3.6600e-003	188.3169
User Defined Commercial	0	0.0000	0.0000	0.0000	0.0000
User Defined Commercial	1.50824e+007	1,395.4847	0.2258	0.0274	1,409.2835
User Defined Commercial	2.7252e+006	252.1459	0.0408	4.9400e-003	254.6391
Total		2,021.8067	0.3271	0.0397	2,041.7988

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.4393	1.9000e-004	0.0214	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0418	0.0418	1.1000e-004	0.0000	0.0445
Unmitigated	3.4829	1.9000e-004	0.0214	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0418	0.0418	1.1000e-004	0.0000	0.0445

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4282					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.0527					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.9700e-003	1.9000e-004	0.0214	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0418	0.0418	1.1000e-004	0.0000	0.0445
Total	3.4829	1.9000e-004	0.0214	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0418	0.0418	1.1000e-004	0.0000	0.0445

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3846					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.0527					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.9700e-003	1.9000e-004	0.0214	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0418	0.0418	1.1000e-004	0.0000	0.0445
Total	3.4393	1.9000e-004	0.0214	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0418	0.0418	1.1000e-004	0.0000	0.0445

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	45.6756	1.8242	0.0435	104.2491
Unmitigated	50.7507	2.0269	0.0484	115.8323

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	62.05 / 0	50.7507	2.0269	0.0484	115.8323
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Commercial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		50.7507	2.0269	0.0484	115.8323

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	55.845 / 0	45.6756	1.8242	0.0435	104.2491
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Commercial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		45.6756	1.8242	0.0435	104.2491

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	194.7698	11.5106	0.0000	482.5340
Unmitigated	389.5397	23.0211	0.0000	965.0680

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	1919	389.5397	23.0211	0.0000	965.0680
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
User Defined Commercial	0	0.0000	0.0000	0.0000	0.0000
Total		389.5397	23.0211	0.0000	965.0680

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

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	959.5	194.7698	11.5106	0.0000	482.5340
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
User Defined Commercial	0	0.0000	0.0000	0.0000	0.0000
Total		194.7698	11.5106	0.0000	482.5340

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
Emergency Generator	4	0	84	2447	0.73	Diesel

Boilers

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	4	40	14600	0.5	CNG

User Defined Equipment

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

10.1 Stationary Sources

Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Boiler - CNG (0 - 2 MMBTU)	0.1575	0.7008	2.8055	0.0172		0.2176	0.2176		0.2176	0.2176	0.0000	3,116.4997	3,116.4997	0.0597	0.0000	3,117.9930
Emergency Generator - Diesel (750 - 9999 HP)	0.6746	3.0169	1.7202	3.2400e-003		0.0992	0.0992		0.0992	0.0992	0.0000	313.0884	313.0884	0.0439	0.0000	314.1858
Total	0.8321	3.7177	4.5257	0.0204		0.3168	0.3168		0.3168	0.3168	0.0000	3,429.5881	3,429.5881	0.1036	0.0000	3,432.1788

11.0 Vegetation

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

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	-295.1200	0.0000	0.0000	-295.1200

11.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Cropland	61.7 / 14.1	-295.1200	0.0000	0.0000	-295.1200
Total		-295.1200	0.0000	0.0000	-295.1200

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

Koi Nation Shiloh Resort and Casino - Alt A

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Commercial	122.60	User Defined Unit	51.50	410,572.00	0
User Defined Commercial	74.20	User Defined Unit	0.00	74,185.00	0
User Defined Commercial	53.40	User Defined Unit	0.00	0.00	0
Parking Lot	475.30	1000sqft	0.00	475,300.00	0
Unenclosed Parking with Elevator	1,214.10	1000sqft	0.00	1,214,100.00	0
Hotel	400.00	Room	0.00	268,930.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	75
Climate Zone	4			Operational Year	2028
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See input tables for assumptions.

Construction Phase - See input tables for assumptions.

Demolition -

Grading - See input tables for assumptions.

Vehicle Trips - See input tables for assumptions.

Area Coating -

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

Energy Use - See input tables for assumptions.

Water And Wastewater - See input tables for assumptions.

Solid Waste - See input tables for assumptions.

Land Use Change - See input tables for assumptions.

Construction Off-road Equipment Mitigation - See input tables for assumptions.

Area Mitigation - Compliance with BAAQMD Rule 3

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Process Boilers -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	100
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	100
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

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

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	75.00	200.00
tblConstructionPhase	NumDays	1,110.00	335.00
tblConstructionPhase	NumDays	70.00	10.00
tblConstructionPhase	NumDays	110.00	40.00
tblConstructionPhase	NumDays	75.00	90.00
tblConstructionPhase	NumDays	40.00	15.00
tblEnergyUse	LightingElect	0.00	6.78
tblEnergyUse	NT24E	0.00	23.69
tblEnergyUse	NT24NG	0.00	138.46
tblEnergyUse	T24E	0.00	7.35
tblEnergyUse	T24NG	0.00	35.56
tblGrading	AcresOfGrading	120.00	51.50
tblGrading	AcresOfGrading	22.50	51.50
tblGrading	MaterialImported	0.00	10,000.00
tblLandUse	LandUseSquareFeet	0.00	410,572.00
tblLandUse	LandUseSquareFeet	0.00	74,185.00
tblLandUse	LandUseSquareFeet	580,800.00	268,930.00
tblLandUse	LotAcreage	0.00	51.50
tblLandUse	LotAcreage	10.91	0.00
tblLandUse	LotAcreage	27.87	0.00
tblLandUse	LotAcreage	13.33	0.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

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

tblSolidWaste	SolidWasteGenerationRate	219.00	1,919.00
tblStationaryBoilersUse	AnnualHeatInput	0.00	14,600.00
tblStationaryBoilersUse	BoilerRatingValue	0.00	0.50
tblStationaryBoilersUse	DailyHeatInput	0.00	40.00
tblStationaryBoilersUse	NumberOfEquipment	0.00	4.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	2,447.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	84.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	4.00
tblVehicleTrips	CC_TL	6.60	55.00
tblVehicleTrips	CC_TL	6.60	55.00
tblVehicleTrips	CC_TTP	0.00	77.00
tblVehicleTrips	CNW_TL	6.60	10.00
tblVehicleTrips	CNW_TL	6.60	10.00
tblVehicleTrips	CNW_TTP	0.00	18.00
tblVehicleTrips	CW_TTP	0.00	5.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	8.19	2.05
tblVehicleTrips	ST_TR	0.00	59.79
tblVehicleTrips	SU_TR	5.95	2.05
tblVehicleTrips	SU_TR	0.00	59.79
tblVehicleTrips	WD_TR	8.36	2.00
tblVehicleTrips	WD_TR	0.00	41.62
tblWater	IndoorWaterUseRate	10,146,708.00	62,050,000.00
tblWater	OutdoorWaterUseRate	1,127,412.00	0.00

2.0 Emissions Summary

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2026	4.6697	44.8698	43.3497	0.1618	22.6586	1.9437	24.6023	10.5048	1.7957	12.3006	0.0000	16,618.8699	16,618.8699	2.2514	1.2991	17,029.1412
2027	48.9643	40.1671	62.7854	0.1978	12.2051	1.1294	13.3345	3.2917	1.0573	4.3490	0.0000	20,136.3189	20,136.3189	1.6748	1.3004	20,565.7147
Maximum	48.9643	44.8698	62.7854	0.1978	22.6586	1.9437	24.6023	10.5048	1.7957	12.3006	0.0000	20,136.3189	20,136.3189	2.2514	1.3004	20,565.7147

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					
2026	4.6697	44.8698	43.3497	0.1618	10.4720	1.9437	12.3167	4.7743	1.7957	6.5700	0.0000	16,618.8699	16,618.8699	2.2514	1.2991	17,029.1412
2027	48.9643	40.1671	62.7854	0.1978	12.2051	1.1294	13.3345	3.2917	1.0573	4.3490	0.0000	20,136.3189	20,136.3189	1.6748	1.3004	20,565.7147
Maximum	48.9643	44.8698	62.7854	0.1978	12.2051	1.9437	13.3345	4.7743	1.7957	6.5700	0.0000	20,136.3189	20,136.3189	2.2514	1.3004	20,565.7147

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	34.96	0.00	32.38	41.54	0.00	34.42	0.00	0.00	0.00	0.00	0.00	0.00

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	19.0957	2.1600e-003	0.2383	2.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		0.5120	0.5120	1.3300e-003		0.5453
Energy	2.8413	25.8303	21.6974	0.1550		1.9631	1.9631		1.9631	1.9631		30,996.3350	30,996.3350	0.5941	0.5683	31,180.5308
Mobile	141.7263	243.6999	1,833.9384	4.5549	532.8814	3.5420	536.4234	142.2596	3.3198	145.5794		463,723.0465	463,723.0465	20.7303	18.8473	469,857.7830
Stationary	0.8628	3.8401	15.3728	0.0941		1.1922	1.1922		1.1922	1.1922		18,823.8510	18,823.8510	0.3608		18,832.8708
Total	164.5261	273.3724	1,871.2468	4.8040	532.8814	6.6981	539.5795	142.2596	6.4759	148.7355		513,543.7446	513,543.7446	21.6865	19.4155	519,871.7299

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Summer

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	18.8565	2.1600e-003	0.2383	2.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		0.5120	0.5120	1.3300e-003		0.5453
Energy	2.8413	25.8303	21.6974	0.1550		1.9631	1.9631		1.9631	1.9631		30,996.3350	30,996.3350	0.5941	0.5683	31,180.5308
Mobile	141.7263	243.6999	1,833.9384	4.5549	532.8814	3.5420	536.4234	142.2596	3.3198	145.5794		463,723.0465	463,723.0465	20.7303	18.8473	469,857.7830
Stationary	0.8628	3.8401	15.3728	0.0941		1.1922	1.1922		1.1922	1.1922		18,823.8510	18,823.8510	0.3608		18,832.8708
Total	164.2868	273.3724	1,871.2468	4.8040	532.8814	6.6981	539.5795	142.2596	6.4759	148.7355		513,543.7446	513,543.7446	21.6865	19.4155	519,871.7299

	ROG	NOx	CO	SO2	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	0.15	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	7/1/2026	7/14/2026	5	10	
2	Site Preparation	Site Preparation	7/1/2026	7/21/2026	5	15	
3	Grading	Grading	7/22/2026	9/15/2026	5	40	
4	Building Construction	Building Construction	9/16/2026	12/28/2027	5	335	

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

5	Architectural Coating	Architectural Coating	3/23/2027	12/27/2027	5	200
6	Paving	Paving	6/15/2027	10/18/2027	5	90

Acres of Grading (Site Preparation Phase): 51.5

Acres of Grading (Grading Phase): 51.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,130,531; Non-Residential Outdoor: 376,844; Striped Parking Area: 101,364 (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	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Summer

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

Architectural Coating	Air Compressors	1	6.00	78	0.48
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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	6	15.00	0.00	29.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	1,250.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	978.00	400.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	196.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Summer

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

3.2 Demolition - 2026

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					0.6300	0.0000	0.6300	0.0954	0.0000	0.0954			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606
Total	2.0926	19.1966	19.4184	0.0388	0.6300	0.8528	1.4828	0.0954	0.7920	0.8874		3,747.5996	3,747.5996	1.0464		3,773.7606

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	5.9000e-003	0.3886	0.0906	1.6900e-003	0.0502	2.8100e-003	0.0530	0.0137	2.6900e-003	0.0164		184.2031	184.2031	6.0900e-003	0.0292	193.0432
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	0.0448	0.0231	0.3466	9.9000e-004	0.1232	6.0000e-004	0.1238	0.0327	5.6000e-004	0.0332		100.5754	100.5754	2.6100e-003	2.5200e-003	101.3927
Total	0.0507	0.4117	0.4372	2.6800e-003	0.1734	3.4100e-003	0.1768	0.0464	3.2500e-003	0.0496		284.7785	284.7785	8.7000e-003	0.0317	294.4359

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Summer

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

3.2 Demolition - 2026

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					0.2835	0.0000	0.2835	0.0429	0.0000	0.0429			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
Total	2.0926	19.1966	19.4184	0.0388	0.2835	0.8528	1.1363	0.0429	0.7920	0.8349	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606

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	5.9000e-003	0.3886	0.0906	1.6900e-003	0.0502	2.8100e-003	0.0530	0.0137	2.6900e-003	0.0164		184.2031	184.2031	6.0900e-003	0.0292	193.0432
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	0.0448	0.0231	0.3466	9.9000e-004	0.1232	6.0000e-004	0.1238	0.0327	5.6000e-004	0.0332		100.5754	100.5754	2.6100e-003	2.5200e-003	101.3927
Total	0.0507	0.4117	0.4372	2.6800e-003	0.1734	3.4100e-003	0.1768	0.0464	3.2500e-003	0.0496		284.7785	284.7785	8.7000e-003	0.0317	294.4359

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Summer

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

3.3 Site Preparation - 2026

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					21.7073	0.0000	21.7073	10.3238	0.0000	10.3238			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	21.7073	1.0868	22.7941	10.3238	0.9999	11.3237		3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0537	0.0277	0.4159	1.1900e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		120.6904	120.6904	3.1300e-003	3.0300e-003	121.6713
Total	0.0537	0.0277	0.4159	1.1900e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		120.6904	120.6904	3.1300e-003	3.0300e-003	121.6713

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Summer

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

3.3 Site Preparation - 2026

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					9.7683	0.0000	9.7683	4.6457	0.0000	4.6457			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	9.7683	1.0868	10.8551	4.6457	0.9999	5.6456	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0537	0.0277	0.4159	1.1900e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		120.6904	120.6904	3.1300e-003	3.0300e-003	121.6713
Total	0.0537	0.0277	0.4159	1.1900e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		120.6904	120.6904	3.1300e-003	3.0300e-003	121.6713

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Summer

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

3.4 Grading - 2026

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					7.4158	0.0000	7.4158	3.4619	0.0000	3.4619			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	2.9012	27.9429	26.3311	0.0621	7.4158	1.1309	8.5466	3.4619	1.0404	4.5024		6,008.281 4	6,008.281 4	1.9432		6,056.861 4

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0635	4.1872	0.9763	0.0182	0.5408	0.0303	0.5710	0.1477	0.0290	0.1767		1,984.947 2	1,984.947 2	0.0656	0.3142	2,080.207 1
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	0.0597	0.0308	0.4621	1.3300e-003	0.1643	8.1000e-004	0.1651	0.0436	7.4000e-004	0.0443		134.1005	134.1005	3.4800e-003	3.3700e-003	135.1903
Total	0.1232	4.2180	1.4384	0.0196	0.7051	0.0311	0.7361	0.1913	0.0297	0.2210		2,119.047 7	2,119.047 7	0.0691	0.3175	2,215.397 4

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Summer

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

3.4 Grading - 2026

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					3.3371	0.0000	3.3371	1.5579	0.0000	1.5579			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	2.9012	27.9429	26.3311	0.0621	3.3371	1.1309	4.4680	1.5579	1.0404	2.5983	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0635	4.1872	0.9763	0.0182	0.5408	0.0303	0.5710	0.1477	0.0290	0.1767		1,984.947 2	1,984.947 2	0.0656	0.3142	2,080.207 1
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	0.0597	0.0308	0.4621	1.3300e-003	0.1643	8.1000e-004	0.1651	0.0436	7.4000e-004	0.0443		134.1005	134.1005	3.4800e-003	3.3700e-003	135.1903
Total	0.1232	4.2180	1.4384	0.0196	0.7051	0.0311	0.7361	0.1913	0.0297	0.2210		2,119.047 7	2,119.047 7	0.0691	0.3175	2,215.397 4

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Summer

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

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.3739	16.5160	4.6684	0.0699	2.4379	0.0885	2.5264	0.7010	0.0847	0.7857		7,504.882 7	7,504.882 7	0.1541	1.1346	7,846.837 5
Worker	2.9188	1.5050	22.5967	0.0649	8.0340	0.0394	8.0735	2.1310	0.0363	2.1673		6,557.512 8	6,557.512 8	0.1700	0.1646	6,610.805 6
Total	3.2926	18.0210	27.2651	0.1348	10.4720	0.1279	10.5999	2.8320	0.1210	2.9530		14,062.39 55	14,062.39 55	0.3241	1.2991	14,457.64 31

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

3.5 Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 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	0.0000	0.0000	0.0000	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	0.3739	16.5160	4.6684	0.0699	2.4379	0.0885	2.5264	0.7010	0.0847	0.7857		7,504.882 7	7,504.882 7	0.1541	1.1346	7,846.837 5
Worker	2.9188	1.5050	22.5967	0.0649	8.0340	0.0394	8.0735	2.1310	0.0363	2.1673		6,557.512 8	6,557.512 8	0.1700	0.1646	6,610.805 6
Total	3.2926	18.0210	27.2651	0.1348	10.4720	0.1279	10.5999	2.8320	0.1210	2.9530		14,062.39 55	14,062.39 55	0.3241	1.2991	14,457.64 31

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Summer

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

3.5 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.3627	16.3136	4.5878	0.0685	2.4377	0.0870	2.5248	0.7010	0.0833	0.7842		7,356.201 2	7,356.201 2	0.1567	1.1119	7,691.463 8
Worker	2.7345	1.3626	21.1605	0.0630	8.0340	0.0368	8.0709	2.1310	0.0339	2.1649		6,362.716 8	6,362.716 8	0.1547	0.1551	6,412.795 5
Total	3.0972	17.6763	25.7483	0.1315	10.4718	0.1239	10.5957	2.8320	0.1172	2.9491		13,718.91 80	13,718.91 80	0.3114	1.2670	14,104.25 93

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Summer

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

3.5 Building Construction - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 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	0.0000	0.0000	0.0000	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	0.3627	16.3136	4.5878	0.0685	2.4377	0.0870	2.5248	0.7010	0.0833	0.7842		7,356.201 2	7,356.201 2	0.1567	1.1119	7,691.463 8
Worker	2.7345	1.3626	21.1605	0.0630	8.0340	0.0368	8.0709	2.1310	0.0339	2.1649		6,362.716 8	6,362.716 8	0.1547	0.1551	6,412.795 5
Total	3.0972	17.6763	25.7483	0.1315	10.4718	0.1239	10.5957	2.8320	0.1172	2.9491		13,718.91 80	13,718.91 80	0.3114	1.2670	14,104.25 93

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Summer

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

3.6 Architectural Coating - 2027

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	42.8238					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	42.9946	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.5480	0.2731	4.2408	0.0126	1.6101	7.3800e-003	1.6175	0.4271	6.8000e-003	0.4339		1,275.1457	1,275.1457	0.0310	0.0311	1,285.1819
Total	0.5480	0.2731	4.2408	0.0126	1.6101	7.3800e-003	1.6175	0.4271	6.8000e-003	0.4339		1,275.1457	1,275.1457	0.0310	0.0311	1,285.1819

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Summer

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

3.6 Architectural Coating - 2027

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	42.8238					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	42.9946	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.5480	0.2731	4.2408	0.0126	1.6101	7.3800e-003	1.6175	0.4271	6.8000e-003	0.4339		1,275.1457	1,275.1457	0.0310	0.0311	1,285.1819
Total	0.5480	0.2731	4.2408	0.0126	1.6101	7.3800e-003	1.6175	0.4271	6.8000e-003	0.4339		1,275.1457	1,275.1457	0.0310	0.0311	1,285.1819

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Summer

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

3.7 Paving - 2027

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0419	0.0209	0.3246	9.7000e-004	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		97.5877	97.5877	2.3700e-003	2.3800e-003	98.3558
Total	0.0419	0.0209	0.3246	9.7000e-004	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		97.5877	97.5877	2.3700e-003	2.3800e-003	98.3558

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Summer

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

3.7 Paving - 2027

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0419	0.0209	0.3246	9.7000e-004	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		97.5877	97.5877	2.3700e-003	2.3800e-003	98.3558
Total	0.0419	0.0209	0.3246	9.7000e-004	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		97.5877	97.5877	2.3700e-003	2.3800e-003	98.3558

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	141.7263	243.6999	1,833.9384	4.5549	532.8814	3.5420	536.4234	142.2596	3.3198	145.5794		463,723.0465	463,723.0465	20.7303	18.8473	469,857.7830
Unmitigated	141.7263	243.6999	1,833.9384	4.5549	532.8814	3.5420	536.4234	142.2596	3.3198	145.5794		463,723.0465	463,723.0465	20.7303	18.8473	469,857.7830

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	800.00	820.00	820.00	7,648,879	7,648,879
Parking Lot	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
User Defined Commercial	5,102.61	7,330.25	7330.25	93,765,911	93,765,911
User Defined Commercial	3,088.20	4,436.42	4436.42	56,749,026	56,749,026
User Defined Commercial	2,222.51	3,192.79	3192.79	40,840,943	40,840,943
Total	11,213.32	15,779.46	15,779.46	199,004,760	199,004,760

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hotel	14.70	55.00	10.00	19.40	61.60	19.00	58	38	4

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Summer

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

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
User Defined Commercial	14.70	55.00	10.00	5.00	77.00	18.00	100	0	0
User Defined Commercial	14.70	55.00	10.00	5.00	77.00	18.00	100	0	0
User Defined Commercial	14.70	55.00	10.00	5.00	77.00	18.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hotel	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580
Parking Lot	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580
Unenclosed Parking with Elevator	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580
User Defined Commercial	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	2.8413	25.8303	21.6974	0.1550		1.9631	1.9631		1.9631	1.9631		30,996.3350	30,996.3350	0.5941	0.5683	31,180.5308
NaturalGas Unmitigated	2.8413	25.8303	21.6974	0.1550		1.9631	1.9631		1.9631	1.9631		30,996.3350	30,996.3350	0.5941	0.5683	31,180.5308

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Summer

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Hotel	32352.6	0.3489	3.1718	2.6643	0.0190		0.2411	0.2411		0.2411	0.2411		3,806.1938	3,806.1938	0.0730	0.0698	3,828.8121
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	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
User Defined Commercial	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
User Defined Commercial	195747	2.1110	19.1909	16.1204	0.1152		1.4585	1.4585		1.4585	1.4585		23,029.0860	23,029.0860	0.4414	0.4222	23,165.9364
User Defined Commercial	35369	0.3814	3.4676	2.9127	0.0208		0.2635	0.2635		0.2635	0.2635		4,161.0552	4,161.0552	0.0798	0.0763	4,185.7823
Total		2.8413	25.8303	21.6974	0.1550		1.9631	1.9631		1.9631	1.9631		30,996.3350	30,996.3350	0.5941	0.5683	31,180.5308

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Summer

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Hotel	32.3526	0.3489	3.1718	2.6643	0.0190		0.2411	0.2411		0.2411	0.2411		3,806.1938	3,806.1938	0.0730	0.0698	3,828.8121
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	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
User Defined Commercial	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
User Defined Commercial	195.747	2.1110	19.1909	16.1204	0.1152		1.4585	1.4585		1.4585	1.4585		23,029.0860	23,029.0860	0.4414	0.4222	23,165.9364
User Defined Commercial	35.369	0.3814	3.4676	2.9127	0.0208		0.2635	0.2635		0.2635	0.2635		4,161.0552	4,161.0552	0.0798	0.0763	4,185.7823
Total		2.8413	25.8303	21.6974	0.1550		1.9631	1.9631		1.9631	1.9631		30,996.3350	30,996.3350	0.5941	0.5683	31,180.5308

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	18.8565	2.1600e-003	0.2383	2.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		0.5120	0.5120	1.3300e-003		0.5453
Unmitigated	19.0957	2.1600e-003	0.2383	2.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		0.5120	0.5120	1.3300e-003		0.5453

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	2.3465					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	16.7273					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0219	2.1600e-003	0.2383	2.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		0.5120	0.5120	1.3300e-003		0.5453
Total	19.0957	2.1600e-003	0.2383	2.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		0.5120	0.5120	1.3300e-003		0.5453

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.1072					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	16.7273					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0219	2.1600e-003	0.2383	2.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		0.5120	0.5120	1.3300e-003		0.5453
Total	18.8565	2.1600e-003	0.2383	2.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		0.5120	0.5120	1.3300e-003		0.5453

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Summer

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

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	4	0	84	2447	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	4	40	14600	0.5	CNG

User Defined Equipment

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

10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Boiler - CNG (0 - 2 MMBTU)	0.8628	3.8401	15.3728	0.0941		1.1922	1.1922		1.1922	1.1922		18,823.8510	18,823.8510	0.3608		18,832.8708
Emergency Generator - Diesel (750 - 9999 HP)	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	0.8628	3.8401	15.3728	0.0941		1.1922	1.1922		1.1922	1.1922		18,823.8510	18,823.8510	0.3608		18,832.8708

11.0 Vegetation

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Winter

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

**Koi Nation Shiloh Resort and Casino - Alt A
Sonoma-San Francisco County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Commercial	122.60	User Defined Unit	51.50	410,572.00	0
User Defined Commercial	74.20	User Defined Unit	0.00	74,185.00	0
User Defined Commercial	53.40	User Defined Unit	0.00	0.00	0
Parking Lot	475.30	1000sqft	0.00	475,300.00	0
Unenclosed Parking with Elevator	1,214.10	1000sqft	0.00	1,214,100.00	0
Hotel	400.00	Room	0.00	268,930.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	75
Climate Zone	4			Operational Year	2028
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See input tables for assumptions.

Construction Phase - See input tables for assumptions.

Demolition -

Grading - See input tables for assumptions.

Vehicle Trips - See input tables for assumptions.

Area Coating -

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Winter

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

Energy Use - See input tables for assumptions.

Water And Wastewater - See input tables for assumptions.

Solid Waste - See input tables for assumptions.

Land Use Change - See input tables for assumptions.

Construction Off-road Equipment Mitigation - See input tables for assumptions.

Area Mitigation - Compliance with BAAQMD Rule 3

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps -

Stationary Sources - Process Boilers -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	150	100
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	150	100
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	DPF	No Change	Level 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Winter

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

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	75.00	200.00
tblConstructionPhase	NumDays	1,110.00	335.00
tblConstructionPhase	NumDays	70.00	10.00
tblConstructionPhase	NumDays	110.00	40.00
tblConstructionPhase	NumDays	75.00	90.00
tblConstructionPhase	NumDays	40.00	15.00
tblEnergyUse	LightingElect	0.00	6.78
tblEnergyUse	NT24E	0.00	23.69
tblEnergyUse	NT24NG	0.00	138.46
tblEnergyUse	T24E	0.00	7.35
tblEnergyUse	T24NG	0.00	35.56
tblGrading	AcresOfGrading	120.00	51.50
tblGrading	AcresOfGrading	22.50	51.50
tblGrading	MaterialImported	0.00	10,000.00
tblLandUse	LandUseSquareFeet	0.00	410,572.00
tblLandUse	LandUseSquareFeet	0.00	74,185.00
tblLandUse	LandUseSquareFeet	580,800.00	268,930.00
tblLandUse	LotAcreage	0.00	51.50
tblLandUse	LotAcreage	10.91	0.00
tblLandUse	LotAcreage	27.87	0.00
tblLandUse	LotAcreage	13.33	0.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Winter

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

tblSolidWaste	SolidWasteGenerationRate	219.00	1,919.00
tblStationaryBoilersUse	AnnualHeatInput	0.00	14,600.00
tblStationaryBoilersUse	BoilerRatingValue	0.00	0.50
tblStationaryBoilersUse	DailyHeatInput	0.00	40.00
tblStationaryBoilersUse	NumberOfEquipment	0.00	4.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	2,447.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	84.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	4.00
tblVehicleTrips	CC_TL	6.60	55.00
tblVehicleTrips	CC_TL	6.60	55.00
tblVehicleTrips	CC_TTP	0.00	77.00
tblVehicleTrips	CNW_TL	6.60	10.00
tblVehicleTrips	CNW_TL	6.60	10.00
tblVehicleTrips	CNW_TTP	0.00	18.00
tblVehicleTrips	CW_TTP	0.00	5.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	8.19	2.05
tblVehicleTrips	ST_TR	0.00	59.79
tblVehicleTrips	SU_TR	5.95	2.05
tblVehicleTrips	SU_TR	0.00	59.79
tblVehicleTrips	WD_TR	8.36	2.00
tblVehicleTrips	WD_TR	0.00	41.62
tblWater	IndoorWaterUseRate	10,146,708.00	62,050,000.00
tblWater	OutdoorWaterUseRate	1,127,412.00	0.00

2.0 Emissions Summary

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2026	4.7854	44.9030	42.8500	0.1578	22.6586	1.9437	24.6023	10.5048	1.7957	12.3006	0.0000	16,215.27 38	16,215.27 38	2.2522	1.3266	16,634.28 84
2027	49.1149	41.4434	62.2491	0.1930	12.2051	1.1298	13.3349	3.2917	1.0577	4.3494	0.0000	19,658.92 63	19,658.92 63	1.6999	1.3314	20,098.19 56
Maximum	49.1149	44.9030	62.2491	0.1930	22.6586	1.9437	24.6023	10.5048	1.7957	12.3006	0.0000	19,658.92 63	19,658.92 63	2.2522	1.3314	20,098.19 56

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					
2026	4.7854	44.9030	42.8500	0.1578	10.4720	1.9437	12.3168	4.7743	1.7957	6.5700	0.0000	16,215.27 38	16,215.27 38	2.2522	1.3266	16,634.28 84
2027	49.1149	41.4434	62.2491	0.1930	12.2051	1.1298	13.3349	3.2917	1.0577	4.3494	0.0000	19,658.92 63	19,658.92 63	1.6999	1.3314	20,098.19 56
Maximum	49.1149	44.9030	62.2491	0.1930	12.2051	1.9437	13.3349	4.7743	1.7957	6.5700	0.0000	19,658.92 63	19,658.92 63	2.2522	1.3314	20,098.19 56

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	34.96	0.00	32.38	41.54	0.00	34.42	0.00	0.00	0.00	0.00	0.00	0.00

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	19.0957	2.1600e-003	0.2383	2.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		0.5120	0.5120	1.3300e-003		0.5453
Energy	2.8413	25.8303	21.6974	0.1550		1.9631	1.9631		1.9631	1.9631		30,996.3350	30,996.3350	0.5941	0.5683	31,180.5308
Mobile	143.5873	274.0139	1,850.2737	4.3307	532.8814	3.5422	536.4236	142.2596	3.3200	145.5796		441,085.1541	441,085.1541	21.6963	20.2140	447,651.3259
Stationary	0.8628	3.8401	15.3728	0.0941		1.1922	1.1922		1.1922	1.1922		18,823.8510	18,823.8510	0.3608		18,832.8708
Total	166.3871	303.6864	1,887.5821	4.5798	532.8814	6.6984	539.5797	142.2596	6.4762	148.7358		490,905.8522	490,905.8522	22.6525	20.7823	497,665.2728

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Winter

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	18.8565	2.1600e-003	0.2383	2.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		0.5120	0.5120	1.3300e-003		0.5453
Energy	2.8413	25.8303	21.6974	0.1550		1.9631	1.9631		1.9631	1.9631		30,996.3350	30,996.3350	0.5941	0.5683	31,180.5308
Mobile	143.5873	274.0139	1,850.2737	4.3307	532.8814	3.5422	536.4236	142.2596	3.3200	145.5796		441,085.1541	441,085.1541	21.6963	20.2140	447,651.3259
Stationary	0.8628	3.8401	15.3728	0.0941		1.1922	1.1922		1.1922	1.1922		18,823.8510	18,823.8510	0.3608		18,832.8708
Total	166.1479	303.6864	1,887.5821	4.5798	532.8814	6.6984	539.5797	142.2596	6.4762	148.7358		490,905.8522	490,905.8522	22.6525	20.7823	497,665.2728

	ROG	NOx	CO	SO2	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	0.14	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	7/1/2026	7/14/2026	5	10	
2	Site Preparation	Site Preparation	7/1/2026	7/21/2026	5	15	
3	Grading	Grading	7/22/2026	9/15/2026	5	40	
4	Building Construction	Building Construction	9/16/2026	12/28/2027	5	335	

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Winter

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

5	Architectural Coating	Architectural Coating	3/23/2027	12/27/2027	5	200
6	Paving	Paving	6/15/2027	10/18/2027	5	90

Acres of Grading (Site Preparation Phase): 51.5

Acres of Grading (Grading Phase): 51.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,130,531; Non-Residential Outdoor: 376,844; Striped Parking Area: 101,364 (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	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Winter

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

Architectural Coating	Air Compressors	1	6.00	78	0.48
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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	6	15.00	0.00	29.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	1,250.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	978.00	400.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	196.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Winter

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

3.2 Demolition - 2026

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					0.6300	0.0000	0.6300	0.0954	0.0000	0.0954			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606
Total	2.0926	19.1966	19.4184	0.0388	0.6300	0.8528	1.4828	0.0954	0.7920	0.8874		3,747.5996	3,747.5996	1.0464		3,773.7606

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	5.5700e-003	0.4098	0.0913	1.6900e-003	0.0502	2.8100e-003	0.0530	0.0137	2.6900e-003	0.0164		184.3419	184.3419	6.0700e-003	0.0292	193.1893
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	0.0469	0.0285	0.3367	9.3000e-004	0.1232	6.0000e-004	0.1238	0.0327	5.6000e-004	0.0332		94.2319	94.2319	2.9600e-003	2.9100e-003	95.1727
Total	0.0524	0.4383	0.4280	2.6200e-003	0.1734	3.4100e-003	0.1768	0.0464	3.2500e-003	0.0496		278.5738	278.5738	9.0300e-003	0.0321	288.3620

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Winter

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

3.2 Demolition - 2026

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					0.2835	0.0000	0.2835	0.0429	0.0000	0.0429			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
Total	2.0926	19.1966	19.4184	0.0388	0.2835	0.8528	1.1363	0.0429	0.7920	0.8349	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606

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	5.5700e-003	0.4098	0.0913	1.6900e-003	0.0502	2.8100e-003	0.0530	0.0137	2.6900e-003	0.0164		184.3419	184.3419	6.0700e-003	0.0292	193.1893
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	0.0469	0.0285	0.3367	9.3000e-004	0.1232	6.0000e-004	0.1238	0.0327	5.6000e-004	0.0332		94.2319	94.2319	2.9600e-003	2.9100e-003	95.1727
Total	0.0524	0.4383	0.4280	2.6200e-003	0.1734	3.4100e-003	0.1768	0.0464	3.2500e-003	0.0496		278.5738	278.5738	9.0300e-003	0.0321	288.3620

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Winter

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

3.3 Site Preparation - 2026

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					21.7073	0.0000	21.7073	10.3238	0.0000	10.3238			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	21.7073	1.0868	22.7941	10.3238	0.9999	11.3237		3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0562	0.0342	0.4040	1.1200e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		113.0783	113.0783	3.5500e-003	3.4900e-003	114.2073
Total	0.0562	0.0342	0.4040	1.1200e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		113.0783	113.0783	3.5500e-003	3.4900e-003	114.2073

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Winter

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

3.3 Site Preparation - 2026

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					9.7683	0.0000	9.7683	4.6457	0.0000	4.6457			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	9.7683	1.0868	10.8551	4.6457	0.9999	5.6456	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0562	0.0342	0.4040	1.1200e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		113.0783	113.0783	3.5500e-003	3.4900e-003	114.2073
Total	0.0562	0.0342	0.4040	1.1200e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		113.0783	113.0783	3.5500e-003	3.4900e-003	114.2073

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Winter

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

3.4 Grading - 2026

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					7.4158	0.0000	7.4158	3.4619	0.0000	3.4619			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	2.9012	27.9429	26.3311	0.0621	7.4158	1.1309	8.5466	3.4619	1.0404	4.5024		6,008.281 4	6,008.281 4	1.9432		6,056.861 4

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0601	4.4158	0.9841	0.0183	0.5408	0.0303	0.5711	0.1477	0.0290	0.1767		1,986.442 9	1,986.442 9	0.0654	0.3144	2,081.781 4
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	0.0625	0.0380	0.4489	1.2400e-003	0.1643	8.1000e-004	0.1651	0.0436	7.4000e-004	0.0443		125.6426	125.6426	3.9500e-003	3.8800e-003	126.8970
Total	0.1226	4.4539	1.4330	0.0195	0.7051	0.0311	0.7362	0.1913	0.0298	0.2211		2,112.085 5	2,112.085 5	0.0694	0.3183	2,208.678 4

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Winter

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

3.4 Grading - 2026

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					3.3371	0.0000	3.3371	1.5579	0.0000	1.5579			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	2.9012	27.9429	26.3311	0.0621	3.3371	1.1309	4.4680	1.5579	1.0404	2.5983	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0601	4.4158	0.9841	0.0183	0.5408	0.0303	0.5711	0.1477	0.0290	0.1767		1,986.442 9	1,986.442 9	0.0654	0.3144	2,081.781 4
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	0.0625	0.0380	0.4489	1.2400e-003	0.1643	8.1000e-004	0.1651	0.0436	7.4000e-004	0.0443		125.6426	125.6426	3.9500e-003	3.8800e-003	126.8970
Total	0.1226	4.4539	1.4330	0.0195	0.7051	0.0311	0.7362	0.1913	0.0298	0.2211		2,112.085 5	2,112.085 5	0.0694	0.3183	2,208.678 4

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Winter

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

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.3624	17.4102	4.8149	0.0700	2.4379	0.0889	2.5268	0.7010	0.0851	0.7861		7,514.877 4	7,514.877 4	0.1531	1.1370	7,857.529 5
Worker	3.0557	1.8602	21.9505	0.0608	8.0340	0.0394	8.0735	2.1310	0.0363	2.1673		6,143.922 0	6,143.922 0	0.1930	0.1896	6,205.260 9
Total	3.4180	19.2704	26.7654	0.1308	10.4720	0.1283	10.6003	2.8320	0.1214	2.9534		13,658.79 94	13,658.79 94	0.3461	1.3266	14,062.79 03

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Winter

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

3.5 Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 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	0.0000	0.0000	0.0000	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	0.3624	17.4102	4.8149	0.0700	2.4379	0.0889	2.5268	0.7010	0.0851	0.7861		7,514.877 4	7,514.877 4	0.1531	1.1370	7,857.529 5
Worker	3.0557	1.8602	21.9505	0.0608	8.0340	0.0394	8.0735	2.1310	0.0363	2.1673		6,143.922 0	6,143.922 0	0.1930	0.1896	6,205.260 9
Total	3.4180	19.2704	26.7654	0.1308	10.4720	0.1283	10.6003	2.8320	0.1214	2.9534		13,658.79 94	13,658.79 94	0.3461	1.3266	14,062.79 03

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Winter

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

3.5 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.3506	17.1989	4.7327	0.0686	2.4377	0.0874	2.5252	0.7010	0.0836	0.7846		7,366.253 2	7,366.253 2	0.1557	1.1143	7,702.193 9
Worker	2.8683	1.6843	20.6002	0.0590	8.0340	0.0368	8.0709	2.1310	0.0339	2.1649		5,961.774 2	5,961.774 2	0.1762	0.1787	6,019.416 4
Total	3.2189	18.8832	25.3329	0.1276	10.4718	0.1242	10.5960	2.8320	0.1175	2.9495		13,328.02 74	13,328.02 74	0.3319	1.2929	13,721.61 03

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Winter

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

3.5 Building Construction - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 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	0.0000	0.0000	0.0000	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	0.3506	17.1989	4.7327	0.0686	2.4377	0.0874	2.5252	0.7010	0.0836	0.7846		7,366.253 2	7,366.253 2	0.1557	1.1143	7,702.193 9
Worker	2.8683	1.6843	20.6002	0.0590	8.0340	0.0368	8.0709	2.1310	0.0339	2.1649		5,961.774 2	5,961.774 2	0.1762	0.1787	6,019.416 4
Total	3.2189	18.8832	25.3329	0.1276	10.4718	0.1242	10.5960	2.8320	0.1175	2.9495		13,328.02 74	13,328.02 74	0.3319	1.2929	13,721.61 03

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Winter

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

3.6 Architectural Coating - 2027

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	42.8238					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	42.9946	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.5748	0.3375	4.1285	0.0118	1.6101	7.3800e-003	1.6175	0.4271	6.8000e-003	0.4339		1,194.7932	1,194.7932	0.0353	0.0358	1,206.3452
Total	0.5748	0.3375	4.1285	0.0118	1.6101	7.3800e-003	1.6175	0.4271	6.8000e-003	0.4339		1,194.7932	1,194.7932	0.0353	0.0358	1,206.3452

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Winter

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

3.6 Architectural Coating - 2027

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	42.8238					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	42.9946	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.5748	0.3375	4.1285	0.0118	1.6101	7.3800e-003	1.6175	0.4271	6.8000e-003	0.4339		1,194.7932	1,194.7932	0.0353	0.0358	1,206.3452
Total	0.5748	0.3375	4.1285	0.0118	1.6101	7.3800e-003	1.6175	0.4271	6.8000e-003	0.4339		1,194.7932	1,194.7932	0.0353	0.0358	1,206.3452

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Winter

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

3.7 Paving - 2027

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878

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	0.0440	0.0258	0.3160	9.0000e-004	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		91.4383	91.4383	2.7000e-003	2.7400e-003	92.3223
Total	0.0440	0.0258	0.3160	9.0000e-004	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		91.4383	91.4383	2.7000e-003	2.7400e-003	92.3223

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Winter

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

3.7 Paving - 2027

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0440	0.0258	0.3160	9.0000e-004	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		91.4383	91.4383	2.7000e-003	2.7400e-003	92.3223
Total	0.0440	0.0258	0.3160	9.0000e-004	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		91.4383	91.4383	2.7000e-003	2.7400e-003	92.3223

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	143.5873	274.0139	1,850.2737	4.3307	532.8814	3.5422	536.4236	142.2596	3.3200	145.5796		441,085.1541	441,085.1541	21.6963	20.2140	447,651.3259
Unmitigated	143.5873	274.0139	1,850.2737	4.3307	532.8814	3.5422	536.4236	142.2596	3.3200	145.5796		441,085.1541	441,085.1541	21.6963	20.2140	447,651.3259

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	800.00	820.00	820.00	7,648,879	7,648,879
Parking Lot	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
User Defined Commercial	5,102.61	7,330.25	7330.25	93,765,911	93,765,911
User Defined Commercial	3,088.20	4,436.42	4436.42	56,749,026	56,749,026
User Defined Commercial	2,222.51	3,192.79	3192.79	40,840,943	40,840,943
Total	11,213.32	15,779.46	15,779.46	199,004,760	199,004,760

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hotel	14.70	55.00	10.00	19.40	61.60	19.00	58	38	4

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Winter

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

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
User Defined Commercial	14.70	55.00	10.00	5.00	77.00	18.00	100	0	0
User Defined Commercial	14.70	55.00	10.00	5.00	77.00	18.00	100	0	0
User Defined Commercial	14.70	55.00	10.00	5.00	77.00	18.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hotel	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580
Parking Lot	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580
Unenclosed Parking with Elevator	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580
User Defined Commercial	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	2.8413	25.8303	21.6974	0.1550		1.9631	1.9631		1.9631	1.9631		30,996.3350	30,996.3350	0.5941	0.5683	31,180.5308
NaturalGas Unmitigated	2.8413	25.8303	21.6974	0.1550		1.9631	1.9631		1.9631	1.9631		30,996.3350	30,996.3350	0.5941	0.5683	31,180.5308

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Winter

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Hotel	32352.6	0.3489	3.1718	2.6643	0.0190		0.2411	0.2411		0.2411	0.2411		3,806.1938	3,806.1938	0.0730	0.0698	3,828.8121
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	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
User Defined Commercial	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
User Defined Commercial	195747	2.1110	19.1909	16.1204	0.1152		1.4585	1.4585		1.4585	1.4585		23,029.0860	23,029.0860	0.4414	0.4222	23,165.9364
User Defined Commercial	35369	0.3814	3.4676	2.9127	0.0208		0.2635	0.2635		0.2635	0.2635		4,161.0552	4,161.0552	0.0798	0.0763	4,185.7823
Total		2.8413	25.8303	21.6974	0.1550		1.9631	1.9631		1.9631	1.9631		30,996.3350	30,996.3350	0.5941	0.5683	31,180.5308

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Winter

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Hotel	32.3526	0.3489	3.1718	2.6643	0.0190		0.2411	0.2411		0.2411	0.2411		3,806.1938	3,806.1938	0.0730	0.0698	3,828.8121
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	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
User Defined Commercial	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
User Defined Commercial	195.747	2.1110	19.1909	16.1204	0.1152		1.4585	1.4585		1.4585	1.4585		23,029.0860	23,029.0860	0.4414	0.4222	23,165.9364
User Defined Commercial	35.369	0.3814	3.4676	2.9127	0.0208		0.2635	0.2635		0.2635	0.2635		4,161.0552	4,161.0552	0.0798	0.0763	4,185.7823
Total		2.8413	25.8303	21.6974	0.1550		1.9631	1.9631		1.9631	1.9631		30,996.3350	30,996.3350	0.5941	0.5683	31,180.5308

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	18.8565	2.1600e-003	0.2383	2.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		0.5120	0.5120	1.3300e-003		0.5453
Unmitigated	19.0957	2.1600e-003	0.2383	2.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		0.5120	0.5120	1.3300e-003		0.5453

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	2.3465					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	16.7273					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0219	2.1600e-003	0.2383	2.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		0.5120	0.5120	1.3300e-003		0.5453
Total	19.0957	2.1600e-003	0.2383	2.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		0.5120	0.5120	1.3300e-003		0.5453

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.1072					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	16.7273					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0219	2.1600e-003	0.2383	2.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		0.5120	0.5120	1.3300e-003		0.5453
Total	18.8565	2.1600e-003	0.2383	2.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		0.5120	0.5120	1.3300e-003		0.5453

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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

Koi Nation Shiloh Resort and Casino - Alt A - Sonoma-San Francisco County, Winter

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

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	4	0	84	2447	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	4	40	14600	0.5	CNG

User Defined Equipment

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

10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Boiler - CNG (0 - 2 MMBTU)	0.8628	3.8401	15.3728	0.0941		1.1922	1.1922		1.1922	1.1922		18,823.8510	18,823.8510	0.3608		18,832.8708
Emergency Generator - Diesel (750 - 9999 HP)	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	0.8628	3.8401	15.3728	0.0941		1.1922	1.1922		1.1922	1.1922		18,823.8510	18,823.8510	0.3608		18,832.8708

11.0 Vegetation

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Annual

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

**Koi Nation Shiloh Resort and Casino - Alternative B
Sonoma-San Francisco County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Commercial	122.60	User Defined Unit	46.80	372,747.00	0
Hotel	200.00	Room	0.00	147,380.00	0
User Defined Commercial	33.10	User Defined Unit	0.00	33,135.00	0
Unenclosed Parking with Elevator	3,692.00	Space	0.00	1,214,080.00	0
Parking Lot	769.00	Space	0.00	292,200.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	75
Climate Zone	4			Operational Year	2028
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - See input tables for assumptions.
- Construction Phase - See input tables for assumptions.
- Grading - See input tables for assumptions.
- Demolition -
- Vehicle Trips - See input tables for assumptions.
- Energy Use - See input tables for assumptions.
- Water And Wastewater - See input tables for assumptions.

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Annual

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

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	55.00	200.00
tblConstructionPhase	NumDays	740.00	335.00
tblConstructionPhase	NumDays	50.00	10.00
tblConstructionPhase	NumDays	75.00	40.00
tblConstructionPhase	NumDays	55.00	90.00
tblConstructionPhase	NumDays	30.00	15.00
tblConstructionPhase	PhaseEndDate	5/7/2030	12/27/2027
tblConstructionPhase	PhaseEndDate	12/4/2029	12/28/2027
tblConstructionPhase	PhaseEndDate	9/8/2026	7/14/2026
tblConstructionPhase	PhaseEndDate	2/2/2027	9/15/2026
tblConstructionPhase	PhaseEndDate	2/19/2030	10/18/2027
tblConstructionPhase	PhaseEndDate	10/20/2026	7/21/2026
tblConstructionPhase	PhaseStartDate	2/20/2030	3/23/2027
tblConstructionPhase	PhaseStartDate	2/3/2027	9/16/2026
tblConstructionPhase	PhaseStartDate	10/21/2026	7/22/2026
tblConstructionPhase	PhaseStartDate	12/5/2029	6/15/2027
tblConstructionPhase	PhaseStartDate	9/9/2026	7/1/2026
tblEnergyUse	LightingElect	0.00	6.78
tblEnergyUse	NT24E	0.00	23.69
tblEnergyUse	NT24NG	0.00	138.46
tblEnergyUse	T24E	0.00	7.35
tblEnergyUse	T24NG	0.00	35.56
tblGrading	AcresOfGrading	120.00	46.80
tblGrading	AcresOfGrading	22.50	46.80
tblGrading	MaterialImported	0.00	10,000.00

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

tblLandUse	LandUseSquareFeet	290,400.00	147,380.00
tblLandUse	LandUseSquareFeet	1,476,800.00	1,214,080.00
tblLandUse	LandUseSquareFeet	307,600.00	292,200.00
tblLandUse	LandUseSquareFeet	0.00	372,747.00
tblLandUse	LandUseSquareFeet	0.00	33,135.00
tblLandUse	LotAcreage	6.67	0.00
tblLandUse	LotAcreage	33.23	0.00
tblLandUse	LotAcreage	6.92	0.00
tblLandUse	LotAcreage	0.00	46.80
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	109.50	1,267.00
tblStationaryBoilersUse	AnnualHeatInput	0.00	10,950.00
tblStationaryBoilersUse	BoilerRatingValue	0.00	0.50
tblStationaryBoilersUse	DailyHeatInput	0.00	30.00
tblStationaryBoilersUse	NumberOfEquipment	0.00	3.00
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	2,447.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	84.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	3.00
tblVehicleTrips	CC_TL	6.60	55.00
tblVehicleTrips	CC_TL	6.60	55.00
tblVehicleTrips	CC_TTP	0.00	77.00
tblVehicleTrips	CNW_TL	6.60	10.00
tblVehicleTrips	CNW_TL	6.60	10.00
tblVehicleTrips	CNW_TTP	0.00	18.00
tblVehicleTrips	CW_TTP	0.00	5.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	8.19	2.05

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tblVehicleTrips	ST_TR	0.00	82.91
tblVehicleTrips	SU_TR	5.95	2.05
tblVehicleTrips	SU_TR	0.00	82.91
tblVehicleTrips	WD_TR	8.36	2.00
tblVehicleTrips	WD_TR	0.00	53.71
tblWater	IndoorWaterUseRate	5,073,354.00	42,705,000.00
tblWater	OutdoorWaterUseRate	563,706.00	0.00

2.0 Emissions Summary

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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					
2026	0.2458	2.0233	2.2565	7.4400e-003	0.6501	0.0602	0.7102	0.2392	0.0559	0.2951	0.0000	684.9387	684.9387	0.0803	0.0447	700.2634
2027	3.8051	4.1386	5.9436	0.0198	1.2250	0.1062	1.3312	0.3319	0.0999	0.4318	0.0000	1,832.0784	1,832.0784	0.1353	0.1293	1,873.9790
Maximum	3.8051	4.1386	5.9436	0.0198	1.2250	0.1062	1.3312	0.3319	0.0999	0.4318	0.0000	1,832.0784	1,832.0784	0.1353	0.1293	1,873.9790

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					
2026	0.2458	2.0233	2.2565	7.4400e-003	0.4800	0.0602	0.5401	0.1585	0.0559	0.2145	0.0000	684.9384	684.9384	0.0803	0.0447	700.2632
2027	3.8051	4.1386	5.9436	0.0198	1.2250	0.1062	1.3312	0.3319	0.0999	0.4318	0.0000	1,832.0779	1,832.0779	0.1353	0.1293	1,873.9785
Maximum	3.8051	4.1386	5.9436	0.0198	1.2250	0.1062	1.3312	0.3319	0.0999	0.4318	0.0000	1,832.0779	1,832.0779	0.1353	0.1293	1,873.9785

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	ROG	NOx	CO	SO2	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	9.07	0.00	8.33	14.12	0.00	11.09	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2026	9-30-2026	1.1914	1.1914
2	10-1-2026	12-31-2026	1.0842	1.0842
3	1-1-2027	3-31-2027	1.1542	1.1542
4	4-1-2027	6-30-2027	2.1794	2.1794
5	7-1-2027	9-30-2027	2.4623	2.4623
		Highest	2.4623	2.4623

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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	2.5821	4.0000e-004	0.0442	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0861	0.0861	2.2000e-004	0.0000	0.0917
Energy	0.4158	3.7796	3.1748	0.0227		0.2873	0.2873		0.2873	0.2873	0.0000	5,863.0867	5,863.0867	0.3618	0.1097	5,904.8275
Mobile	16.3560	30.4223	207.1992	0.5084	59.4299	0.4128	59.8427	15.9246	0.3869	16.3115	0.0000	46,969.7160	46,969.7160	2.2311	2.0705	47,642.5041
Stationary	0.5945	2.6569	2.8683	0.0121		0.1968	0.1968		0.1968	0.1968	0.0000	1,987.8474	1,987.8474	0.0665	0.0000	1,989.5104
Waste						0.0000	0.0000		0.0000	0.0000	257.1896	0.0000	257.1896	15.1995	0.0000	637.1762
Water						0.0000	0.0000		0.0000	0.0000	13.5483	21.3801	34.9284	1.3950	0.0333	79.7199
Total	19.9483	36.8591	213.2864	0.5431	59.4299	0.8970	60.3269	15.9246	0.8711	16.7957	270.7379	54,842.1162	55,112.8541	19.2541	2.2135	56,253.8297

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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	2.5501	4.0000e-004	0.0442	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0861	0.0861	2.2000e-004	0.0000	0.0917
Energy	0.4158	3.7796	3.1748	0.0227		0.2873	0.2873		0.2873	0.2873	0.0000	5,863.0867	5,863.0867	0.3618	0.1097	5,904.8275
Mobile	16.3560	30.4223	207.1992	0.5084	59.4299	0.4128	59.8427	15.9246	0.3869	16.3115	0.0000	46,969.7160	46,969.7160	2.2311	2.0705	47,642.5041
Stationary	0.5945	2.6569	2.8683	0.0121		0.1968	0.1968		0.1968	0.1968	0.0000	1,987.8474	1,987.8474	0.0665	0.0000	1,989.5104
Waste						0.0000	0.0000		0.0000	0.0000	128.5948	0.0000	128.5948	7.5997	0.0000	318.5881
Water						0.0000	0.0000		0.0000	0.0000	13.5483	21.3801	34.9284	1.3950	0.0333	79.7199
Total	19.9163	36.8591	213.2864	0.5431	59.4299	0.8970	60.3269	15.9246	0.8711	16.7957	142.1431	54,842.1162	54,984.2593	11.6544	2.2135	55,935.2416

	ROG	NOx	CO	SO2	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	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.50	0.00	0.23	39.47	0.00	0.57

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2.3 Vegetation

Vegetation

	CO2e
Category	MT
Vegetation Land Change	-272.4900
Total	-272.4900

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	7/1/2026	7/14/2026	5	10	
2	Site Preparation	Site Preparation	7/1/2026	7/21/2026	5	15	
3	Grading	Grading	7/22/2026	9/15/2026	5	40	
4	Building Construction	Building Construction	9/16/2026	12/28/2027	5	335	
5	Paving	Paving	6/15/2027	10/18/2027	5	90	
6	Architectural Coating	Architectural Coating	3/23/2027	12/27/2027	5	200	

Acres of Grading (Site Preparation Phase): 46.8

Acres of Grading (Grading Phase): 46.8

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 829,893; Non-Residential Outdoor: 276,631; Striped Parking Area: 90,377 (Architectural Coating – sqft)

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OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	165.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	824.00	338.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	29.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

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Grading	8	20.00	0.00	1,250.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use DPF for Construction Equipment
- Use Soil Stabilizer
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2026

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					3.1500e-003	0.0000	3.1500e-003	4.8000e-004	0.0000	4.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0105	0.0960	0.0971	1.9000e-004		4.2600e-003	4.2600e-003		3.9600e-003	3.9600e-003	0.0000	16.9988	16.9988	4.7500e-003	0.0000	17.1175
Total	0.0105	0.0960	0.0971	1.9000e-004	3.1500e-003	4.2600e-003	7.4100e-003	4.8000e-004	3.9600e-003	4.4400e-003	0.0000	16.9988	16.9988	4.7500e-003	0.0000	17.1175

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3.2 Demolition - 2026

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	3.0000e-005	2.0100e-003	4.5000e-004	1.0000e-005	2.4000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.8358	0.8358	3.0000e-005	1.3000e-004	0.8759
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	2.2000e-004	1.3000e-004	1.6400e-003	0.0000	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4316	0.4316	1.0000e-005	1.0000e-005	0.4356
Total	2.5000e-004	2.1400e-003	2.0900e-003	1.0000e-005	8.3000e-004	1.0000e-005	8.5000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	1.2674	1.2674	4.0000e-005	1.4000e-004	1.3115

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					1.4200e-003	0.0000	1.4200e-003	2.1000e-004	0.0000	2.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0105	0.0960	0.0971	1.9000e-004		4.2600e-003	4.2600e-003		3.9600e-003	3.9600e-003	0.0000	16.9988	16.9988	4.7500e-003	0.0000	17.1175
Total	0.0105	0.0960	0.0971	1.9000e-004	1.4200e-003	4.2600e-003	5.6800e-003	2.1000e-004	3.9600e-003	4.1700e-003	0.0000	16.9988	16.9988	4.7500e-003	0.0000	17.1175

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3.2 Demolition - 2026

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	3.0000e-005	2.0100e-003	4.5000e-004	1.0000e-005	2.4000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.8358	0.8358	3.0000e-005	1.3000e-004	0.8759
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	2.2000e-004	1.3000e-004	1.6400e-003	0.0000	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4316	0.4316	1.0000e-005	1.0000e-005	0.4356
Total	2.5000e-004	2.1400e-003	2.0900e-003	1.0000e-005	8.3000e-004	1.0000e-005	8.5000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	1.2674	1.2674	4.0000e-005	1.4000e-004	1.3115

3.3 Site Preparation - 2026

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					0.1603	0.0000	0.1603	0.0772	0.0000	0.0772	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0186	0.1893	0.1343	2.9000e-004		8.1500e-003	8.1500e-003		7.5000e-003	7.5000e-003	0.0000	25.1002	25.1002	8.1200e-003	0.0000	25.3032
Total	0.0186	0.1893	0.1343	2.9000e-004	0.1603	8.1500e-003	0.1685	0.0772	7.5000e-003	0.0847	0.0000	25.1002	25.1002	8.1200e-003	0.0000	25.3032

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3.3 Site Preparation - 2026

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	3.9000e-004	2.3000e-004	2.9400e-003	1.0000e-005	1.0600e-003	1.0000e-005	1.0600e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.7768	0.7768	2.0000e-005	2.0000e-005	0.7841
Total	3.9000e-004	2.3000e-004	2.9400e-003	1.0000e-005	1.0600e-003	1.0000e-005	1.0600e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.7768	0.7768	2.0000e-005	2.0000e-005	0.7841

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					0.0721	0.0000	0.0721	0.0347	0.0000	0.0347	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0186	0.1893	0.1343	2.9000e-004		8.1500e-003	8.1500e-003		7.5000e-003	7.5000e-003	0.0000	25.1002	25.1002	8.1200e-003	0.0000	25.3032
Total	0.0186	0.1893	0.1343	2.9000e-004	0.0721	8.1500e-003	0.0803	0.0347	7.5000e-003	0.0422	0.0000	25.1002	25.1002	8.1200e-003	0.0000	25.3032

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3.3 Site Preparation - 2026

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	3.9000e-004	2.3000e-004	2.9400e-003	1.0000e-005	1.0600e-003	1.0000e-005	1.0600e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.7768	0.7768	2.0000e-005	2.0000e-005	0.7841
Total	3.9000e-004	2.3000e-004	2.9400e-003	1.0000e-005	1.0600e-003	1.0000e-005	1.0600e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.7768	0.7768	2.0000e-005	2.0000e-005	0.7841

3.4 Grading - 2026

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					0.1458	0.0000	0.1458	0.0690	0.0000	0.0690	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0580	0.5589	0.5266	1.2400e-003		0.0226	0.0226		0.0208	0.0208	0.0000	109.0124	109.0124	0.0353	0.0000	109.8939
Total	0.0580	0.5589	0.5266	1.2400e-003	0.1458	0.0226	0.1684	0.0690	0.0208	0.0898	0.0000	109.0124	109.0124	0.0353	0.0000	109.8939

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3.4 Grading - 2026

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	1.2400e-003	0.0865	0.0196	3.6000e-004	0.0104	6.1000e-004	0.0110	2.8500e-003	5.8000e-004	3.4300e-003	0.0000	36.0257	36.0257	1.1900e-003	5.7000e-003	37.7547
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	1.1500e-003	6.9000e-004	8.7200e-003	3.0000e-005	3.1400e-003	2.0000e-005	3.1600e-003	8.4000e-004	1.0000e-005	8.5000e-004	0.0000	2.3018	2.3018	7.0000e-005	7.0000e-005	2.3231
Total	2.3900e-003	0.0872	0.0283	3.9000e-004	0.0135	6.3000e-004	0.0142	3.6900e-003	5.9000e-004	4.2800e-003	0.0000	38.3274	38.3274	1.2600e-003	5.7700e-003	40.0778

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					0.0656	0.0000	0.0656	0.0310	0.0000	0.0310	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0580	0.5589	0.5266	1.2400e-003		0.0226	0.0226		0.0208	0.0208	0.0000	109.0123	109.0123	0.0353	0.0000	109.8937
Total	0.0580	0.5589	0.5266	1.2400e-003	0.0656	0.0226	0.0882	0.0310	0.0208	0.0519	0.0000	109.0123	109.0123	0.0353	0.0000	109.8937

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

3.4 Grading - 2026

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	1.2400e-003	0.0865	0.0196	3.6000e-004	0.0104	6.1000e-004	0.0110	2.8500e-003	5.8000e-004	3.4300e-003	0.0000	36.0257	36.0257	1.1900e-003	5.7000e-003	37.7547
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	1.1500e-003	6.9000e-004	8.7200e-003	3.0000e-005	3.1400e-003	2.0000e-005	3.1600e-003	8.4000e-004	1.0000e-005	8.5000e-004	0.0000	2.3018	2.3018	7.0000e-005	7.0000e-005	2.3231
Total	2.3900e-003	0.0872	0.0283	3.9000e-004	0.0135	6.3000e-004	0.0142	3.6900e-003	5.9000e-004	4.2800e-003	0.0000	38.3274	38.3274	1.2600e-003	5.7700e-003	40.0778

3.5 Building Construction - 2026

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	0.0526	0.4801	0.6193	1.0400e-003		0.0203	0.0203		0.0191	0.0191	0.0000	89.2890	89.2890	0.0210	0.0000	89.8137
Total	0.0526	0.4801	0.6193	1.0400e-003		0.0203	0.0203		0.0191	0.0191	0.0000	89.2890	89.2890	0.0210	0.0000	89.8137

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

3.5 Building Construction - 2026

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	0.0120	0.5547	0.1540	2.2800e-003	0.0764	2.8900e-003	0.0793	0.0221	2.7600e-003	0.0249	0.0000	221.6149	221.6149	4.5400e-003	0.0335	231.7167
Worker	0.0911	0.0548	0.6918	1.9900e-003	0.2490	1.2800e-003	0.2503	0.0663	1.1800e-003	0.0675	0.0000	182.5517	182.5517	5.3400e-003	5.2300e-003	184.2452
Total	0.1031	0.6095	0.8458	4.2700e-003	0.3254	4.1700e-003	0.3295	0.0884	3.9400e-003	0.0923	0.0000	404.1666	404.1666	9.8800e-003	0.0388	415.9619

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	0.0526	0.4801	0.6193	1.0400e-003		0.0203	0.0203		0.0191	0.0191	0.0000	89.2889	89.2889	0.0210	0.0000	89.8136
Total	0.0526	0.4801	0.6193	1.0400e-003		0.0203	0.0203		0.0191	0.0191	0.0000	89.2889	89.2889	0.0210	0.0000	89.8136

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3.5 Building Construction - 2026

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	0.0120	0.5547	0.1540	2.2800e-003	0.0764	2.8900e-003	0.0793	0.0221	2.7600e-003	0.0249	0.0000	221.6149	221.6149	4.5400e-003	0.0335	231.7167
Worker	0.0911	0.0548	0.6918	1.9900e-003	0.2490	1.2800e-003	0.2503	0.0663	1.1800e-003	0.0675	0.0000	182.5517	182.5517	5.3400e-003	5.2300e-003	184.2452
Total	0.1031	0.6095	0.8458	4.2700e-003	0.3254	4.1700e-003	0.3295	0.0884	3.9400e-003	0.0923	0.0000	404.1666	404.1666	9.8800e-003	0.0388	415.9619

3.5 Building Construction - 2027

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	0.1764	1.6086	2.0749	3.4800e-003		0.0681	0.0681		0.0640	0.0640	0.0000	299.1761	299.1761	0.0703	0.0000	300.9343
Total	0.1764	1.6086	2.0749	3.4800e-003		0.0681	0.0681		0.0640	0.0640	0.0000	299.1761	299.1761	0.0703	0.0000	300.9343

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

3.5 Building Construction - 2027

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	0.0388	1.8360	0.5073	7.4700e-003	0.2560	9.5100e-003	0.2655	0.0740	9.0900e-003	0.0831	0.0000	727.8534	727.8534	0.0155	0.1101	761.0384
Worker	0.2863	0.1663	2.1733	6.4700e-003	0.8342	4.0000e-003	0.8382	0.2220	3.6900e-003	0.2257	0.0000	593.5290	593.5290	0.0163	0.0165	598.8617
Total	0.3251	2.0024	2.6806	0.0139	1.0902	0.0135	1.1037	0.2961	0.0128	0.3088	0.0000	1,321.3824	1,321.3824	0.0318	0.1266	1,359.9000

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	0.1764	1.6086	2.0749	3.4800e-003		0.0681	0.0681		0.0640	0.0640	0.0000	299.1757	299.1757	0.0703	0.0000	300.9339
Total	0.1764	1.6086	2.0749	3.4800e-003		0.0681	0.0681		0.0640	0.0640	0.0000	299.1757	299.1757	0.0703	0.0000	300.9339

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3.5 Building Construction - 2027

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	0.0388	1.8360	0.5073	7.4700e-003	0.2560	9.5100e-003	0.2655	0.0740	9.0900e-003	0.0831	0.0000	727.8534	727.8534	0.0155	0.1101	761.0384
Worker	0.2863	0.1663	2.1733	6.4700e-003	0.8342	4.0000e-003	0.8382	0.2220	3.6900e-003	0.2257	0.0000	593.5290	593.5290	0.0163	0.0165	598.8617
Total	0.3251	2.0024	2.6806	0.0139	1.0902	0.0135	1.1037	0.2961	0.0128	0.3088	0.0000	1,321.3824	1,321.3824	0.0318	0.1266	1,359.9000

3.6 Paving - 2027

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	0.0412	0.3862	0.6560	1.0300e-003		0.0188	0.0188		0.0173	0.0173	0.0000	90.0867	90.0867	0.0291	0.0000	90.8150
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0412	0.3862	0.6560	1.0300e-003		0.0188	0.0188		0.0173	0.0173	0.0000	90.0867	90.0867	0.0291	0.0000	90.8150

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3.6 Paving - 2027

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	1.8200e-003	1.0600e-003	0.0138	4.0000e-005	5.3000e-003	3.0000e-005	5.3200e-003	1.4100e-003	2.0000e-005	1.4300e-003	0.0000	3.7690	3.7690	1.0000e-004	1.0000e-004	3.8029
Total	1.8200e-003	1.0600e-003	0.0138	4.0000e-005	5.3000e-003	3.0000e-005	5.3200e-003	1.4100e-003	2.0000e-005	1.4300e-003	0.0000	3.7690	3.7690	1.0000e-004	1.0000e-004	3.8029

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	0.0412	0.3862	0.6560	1.0300e-003		0.0188	0.0188		0.0173	0.0173	0.0000	90.0865	90.0865	0.0291	0.0000	90.8149
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0412	0.3862	0.6560	1.0300e-003		0.0188	0.0188		0.0173	0.0173	0.0000	90.0865	90.0865	0.0291	0.0000	90.8149

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3.6 Paving - 2027

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	1.8200e-003	1.0600e-003	0.0138	4.0000e-005	5.3000e-003	3.0000e-005	5.3200e-003	1.4100e-003	2.0000e-005	1.4300e-003	0.0000	3.7690	3.7690	1.0000e-004	1.0000e-004	3.8029
Total	1.8200e-003	1.0600e-003	0.0138	4.0000e-005	5.3000e-003	3.0000e-005	5.3200e-003	1.4100e-003	2.0000e-005	1.4300e-003	0.0000	3.7690	3.7690	1.0000e-004	1.0000e-004	3.8029

3.7 Architectural Coating - 2027

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	3.1991					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1146	0.1809	3.0000e-004		5.1500e-003	5.1500e-003		5.1500e-003	5.1500e-003	0.0000	25.5325	25.5325	1.3900e-003	0.0000	25.5674
Total	3.2162	0.1146	0.1809	3.0000e-004		5.1500e-003	5.1500e-003		5.1500e-003	5.1500e-003	0.0000	25.5325	25.5325	1.3900e-003	0.0000	25.5674

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3.7 Architectural Coating - 2027

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	0.0444	0.0258	0.3374	1.0000e-003	0.1295	6.2000e-004	0.1301	0.0345	5.7000e-004	0.0350	0.0000	92.1317	92.1317	2.5300e-003	2.5700e-003	92.9595
Total	0.0444	0.0258	0.3374	1.0000e-003	0.1295	6.2000e-004	0.1301	0.0345	5.7000e-004	0.0350	0.0000	92.1317	92.1317	2.5300e-003	2.5700e-003	92.9595

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	3.1991					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1146	0.1809	3.0000e-004		5.1500e-003	5.1500e-003		5.1500e-003	5.1500e-003	0.0000	25.5325	25.5325	1.3900e-003	0.0000	25.5673
Total	3.2162	0.1146	0.1809	3.0000e-004		5.1500e-003	5.1500e-003		5.1500e-003	5.1500e-003	0.0000	25.5325	25.5325	1.3900e-003	0.0000	25.5673

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3.7 Architectural Coating - 2027

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0444	0.0258	0.3374	1.0000e-003	0.1295	6.2000e-004	0.1301	0.0345	5.7000e-004	0.0350	0.0000	92.1317	92.1317	2.5300e-003	2.5700e-003	92.9595
Total	0.0444	0.0258	0.3374	1.0000e-003	0.1295	6.2000e-004	0.1301	0.0345	5.7000e-004	0.0350	0.0000	92.1317	92.1317	2.5300e-003	2.5700e-003	92.9595

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	16.3560	30.4223	207.1992	0.5084	59.4299	0.4128	59.8427	15.9246	0.3869	16.3115	0.0000	46,969.7160	46,969.7160	2.2311	2.0705	47,642.5041
Unmitigated	16.3560	30.4223	207.1992	0.5084	59.4299	0.4128	59.8427	15.9246	0.3869	16.3115	0.0000	46,969.7160	46,969.7160	2.2311	2.0705	47,642.5041

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	400.00	410.00	410.00	3,824,439	3,824,439
Parking Lot	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
User Defined Commercial	6,584.85	10,164.77	10,164.77	124,295,346	124,295,346
User Defined Commercial	1,777.80	2,744.32	2,744.32	33,557,716	33,557,716
Total	8,762.65	13,319.09	13,319.09	161,677,501	161,677,501

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hotel	14.70	55.00	10.00	19.40	61.60	19.00	58	38	4
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
Unenclosed Parking with	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
User Defined Commercial	14.70	55.00	10.00	5.00	77.00	18.00	100	0	0
User Defined Commercial	14.70	55.00	10.00	5.00	77.00	18.00	100	0	0

4.4 Fleet Mix

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Annual

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hotel	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580
Parking Lot	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580
Unenclosed Parking with Elevator	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580
User Defined Commercial	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580

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	1,748.5748	1,748.5748	0.2829	0.0343	1,765.8651
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,748.5748	1,748.5748	0.2829	0.0343	1,765.8651
NaturalGas Mitigated	0.4158	3.7796	3.1748	0.0227		0.2873	0.2873		0.2873	0.2873	0.0000	4,114.5119	4,114.5119	0.0789	0.0754	4,138.9624
NaturalGas Unmitigated	0.4158	3.7796	3.1748	0.0227		0.2873	0.2873		0.2873	0.2873	0.0000	4,114.5119	4,114.5119	0.0789	0.0754	4,138.9624

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Annual

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Hotel	6.47146e+006	0.0349	0.3172	0.2665	1.9000e-003		0.0241	0.0241		0.0241	0.0241	0.0000	345.3415	345.3415	6.6200e-003	6.3300e-003	347.3937
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	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
User Defined Commercial	5.76615e+006	0.0311	0.2827	0.2374	1.7000e-003		0.0215	0.0215		0.0215	0.0215	0.0000	307.7039	307.7039	5.9000e-003	5.6400e-003	309.5324
User Defined Commercial	6.48654e+007	0.3498	3.1797	2.6709	0.0191		0.2417	0.2417		0.2417	0.2417	0.0000	3,461.4665	3,461.4665	0.0663	0.0635	3,482.0363
Total		0.4158	3.7796	3.1748	0.0227		0.2873	0.2873		0.2873	0.2873	0.0000	4,114.5119	4,114.5119	0.0789	0.0754	4,138.9624

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Hotel	6.47146e+006	0.0349	0.3172	0.2665	1.9000e-003		0.0241	0.0241		0.0241	0.0241	0.0000	345.3415	345.3415	6.6200e-003	6.3300e-003	347.3937
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	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
User Defined Commercial	5.76615e+006	0.0311	0.2827	0.2374	1.7000e-003		0.0215	0.0215		0.0215	0.0215	0.0000	307.7039	307.7039	5.9000e-003	5.6400e-003	309.5324
User Defined Commercial	6.48654e+007	0.3498	3.1797	2.6709	0.0191		0.2417	0.2417		0.2417	0.2417	0.0000	3,461.4665	3,461.4665	0.0663	0.0635	3,482.0363
Total		0.4158	3.7796	3.1748	0.0227		0.2873	0.2873		0.2873	0.2873	0.0000	4,114.5119	4,114.5119	0.0789	0.0754	4,138.9624

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Annual

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	1.09061e+006	100.9075	0.0163	1.9800e-003	101.9053
Parking Lot	102270	9.4624	1.5300e-003	1.9000e-004	9.5560
Unenclosed Parking with Elevator	2.35532e+006	217.9227	0.0353	4.2700e-003	220.0775
User Defined Commercial	1.25317e+006	115.9476	0.0188	2.2700e-003	117.0941
User Defined Commercial	1.40973e+007	1,304.3346	0.2110	0.0256	1,317.2321
Total		1,748.5748	0.2829	0.0343	1,765.8651

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Annual

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

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	1.09061e+006	100.9075	0.0163	1.9800e-003	101.9053
Parking Lot	102270	9.4624	1.5300e-003	1.9000e-004	9.5560
Unenclosed Parking with Elevator	2.35532e+006	217.9227	0.0353	4.2700e-003	220.0775
User Defined Commercial	1.25317e+006	115.9476	0.0188	2.2700e-003	117.0941
User Defined Commercial	1.40973e+007	1,304.3346	0.2110	0.0256	1,317.2321
Total		1,748.5748	0.2829	0.0343	1,765.8651

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.5501	4.0000e-004	0.0442	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0861	0.0861	2.2000e-004	0.0000	0.0917
Unmitigated	2.5821	4.0000e-004	0.0442	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0861	0.0861	2.2000e-004	0.0000	0.0917

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3199					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.2581					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0600e-003	4.0000e-004	0.0442	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0861	0.0861	2.2000e-004	0.0000	0.0917
Total	2.5821	4.0000e-004	0.0442	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0861	0.0861	2.2000e-004	0.0000	0.0917

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2879					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.2581					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0600e-003	4.0000e-004	0.0442	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0861	0.0861	2.2000e-004	0.0000	0.0917
Total	2.5500	4.0000e-004	0.0442	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0861	0.0861	2.2000e-004	0.0000	0.0917

7.0 Water Detail

7.1 Mitigation Measures Water

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	34.9284	1.3950	0.0333	79.7199
Unmitigated	34.9284	1.3950	0.0333	79.7199

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	42.705 / 0	34.9284	1.3950	0.0333	79.7199
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Commercial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		34.9284	1.3950	0.0333	79.7199

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	42.705 / 0	34.9284	1.3950	0.0333	79.7199
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Commercial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		34.9284	1.3950	0.0333	79.7199

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	128.5948	7.5997	0.0000	318.5881
Unmitigated	257.1896	15.1995	0.0000	637.1762

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	1267	257.1896	15.1995	0.0000	637.1762
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
User Defined Commercial	0	0.0000	0.0000	0.0000	0.0000
Total		257.1896	15.1995	0.0000	637.1762

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

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	633.5	128.5948	7.5997	0.0000	318.5881
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
User Defined Commercial	0	0.0000	0.0000	0.0000	0.0000
Total		128.5948	7.5997	0.0000	318.5881

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
Emergency Generator	3	0	84	2447	0.73	Diesel

Boilers

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Annual

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

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	3	30	10950	0.5	CNG

User Defined Equipment

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

10.1 Stationary Sources

Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Boiler - CNG (0 - 2 MMBTU)	0.0886	0.3942	1.5781	9.6600e-003		0.1224	0.1224		0.1224	0.1224	0.0000	1,753.0311	1,753.0311	0.0336	0.0000	1,753.8711
Emergency Generator - Diesel (750 - 9999 HP)	0.5059	2.2627	1.2901	2.4300e-003		0.0744	0.0744		0.0744	0.0744	0.0000	234.8163	234.8163	0.0329	0.0000	235.6393
Total	0.5945	2.6569	2.8683	0.0121		0.1968	0.1968		0.1968	0.1968	0.0000	1,987.8474	1,987.8474	0.0665	0.0000	1,989.5104

11.0 Vegetation

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	-272.4900	0.0000	0.0000	-272.4900

11.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Cropland	61.7 / 17.75	-272.4900	0.0000	0.0000	-272.4900
Total		-272.4900	0.0000	0.0000	-272.4900

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Summer

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

Koi Nation Shiloh Resort and Casino - Alternative B

Sonoma-San Francisco County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Commercial	122.60	User Defined Unit	46.80	372,747.00	0
User Defined Commercial	33.10	User Defined Unit	0.00	33,135.00	0
Parking Lot	769.00	Space	0.00	292,200.00	0
Unenclosed Parking with Elevator	3,692.00	Space	0.00	1,214,080.00	0
Hotel	200.00	Room	0.00	147,380.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	75
Climate Zone	4			Operational Year	2028
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See input tables for assumptions.

Construction Phase - See input tables for assumptions.

Demolition -

Grading - See input tables for assumptions.

Vehicle Trips - See input tables for assumptions.

Energy Use - See input tables for assumptions.

Water And Wastewater - See input tables for assumptions.

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Summer

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

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	55.00	200.00
tblConstructionPhase	NumDays	740.00	335.00
tblConstructionPhase	NumDays	50.00	10.00
tblConstructionPhase	NumDays	75.00	40.00
tblConstructionPhase	NumDays	55.00	90.00
tblConstructionPhase	NumDays	30.00	15.00
tblEnergyUse	LightingElect	0.00	6.78
tblEnergyUse	NT24E	0.00	23.69
tblEnergyUse	NT24NG	0.00	138.46
tblEnergyUse	T24E	0.00	7.35
tblEnergyUse	T24NG	0.00	35.56
tblGrading	AcresOfGrading	120.00	46.80
tblGrading	AcresOfGrading	22.50	46.80
tblGrading	MaterialImported	0.00	10,000.00
tblLandUse	LandUseSquareFeet	0.00	372,747.00
tblLandUse	LandUseSquareFeet	0.00	33,135.00
tblLandUse	LandUseSquareFeet	307,600.00	292,200.00
tblLandUse	LandUseSquareFeet	1,476,800.00	1,214,080.00
tblLandUse	LandUseSquareFeet	290,400.00	147,380.00
tblLandUse	LotAcreage	0.00	46.80
tblLandUse	LotAcreage	6.92	0.00
tblLandUse	LotAcreage	33.23	0.00
tblLandUse	LotAcreage	6.67	0.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	109.50	1,267.00

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Summer

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

tblStationaryBoilersUse	AnnualHeatInput	0.00	10,950.00
tblStationaryBoilersUse	BoilerRatingValue	0.00	0.50
tblStationaryBoilersUse	DailyHeatInput	0.00	30.00
tblStationaryBoilersUse	NumberOfEquipment	0.00	3.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	2,447.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	84.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	3.00
tblVehicleTrips	CC_TL	6.60	55.00
tblVehicleTrips	CC_TL	6.60	55.00
tblVehicleTrips	CC_TTP	0.00	77.00
tblVehicleTrips	CNW_TL	6.60	10.00
tblVehicleTrips	CNW_TL	6.60	10.00
tblVehicleTrips	CNW_TTP	0.00	18.00
tblVehicleTrips	CW_TTP	0.00	5.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	8.19	2.05
tblVehicleTrips	ST_TR	0.00	82.91
tblVehicleTrips	SU_TR	5.95	2.05
tblVehicleTrips	SU_TR	0.00	82.91
tblVehicleTrips	WD_TR	8.36	2.00
tblVehicleTrips	WD_TR	0.00	53.71
tblWater	IndoorWaterUseRate	5,073,354.00	42,705,000.00
tblWater	OutdoorWaterUseRate	563,706.00	0.00

2.0 Emissions Summary

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2026	4.6697	44.8698	39.0680	0.1407	22.3263	1.9437	24.2700	10.4690	1.7957	12.2647	0.0000	14,423.03 95	14,423.03 95	2.2514	1.0974	14,771.91 61
2027	37.5579	37.3807	58.0715	0.1752	10.3075	1.1090	11.4165	2.7800	1.0380	3.8180	0.0000	17,792.52 63	17,792.52 63	1.6213	1.0987	18,160.48 35
Maximum	37.5579	44.8698	58.0715	0.1752	22.3263	1.9437	24.2700	10.4690	1.7957	12.2647	0.0000	17,792.52 63	17,792.52 63	2.2514	1.0987	18,160.48 35

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					
2026	4.6697	44.8698	39.0680	0.1407	10.2235	1.9437	12.1672	4.7581	1.7957	6.5539	0.0000	14,423.03 95	14,423.03 95	2.2514	1.0974	14,771.91 61
2027	37.5579	37.3807	58.0715	0.1752	10.3075	1.1090	11.4165	2.7800	1.0380	3.8180	0.0000	17,792.52 63	17,792.52 63	1.6213	1.0987	18,160.48 35
Maximum	37.5579	44.8698	58.0715	0.1752	10.3075	1.9437	12.1672	4.7581	1.7957	6.5539	0.0000	17,792.52 63	17,792.52 63	2.2514	1.0987	18,160.48 35

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	37.09	0.00	33.91	43.10	0.00	35.51	0.00	0.00	0.00	0.00	0.00	0.00

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	14.1714	4.4400e-003	0.4905	4.0000e-005		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003		1.0542	1.0542	2.7400e-003		1.1227
Energy	2.2781	20.7099	17.3963	0.1243		1.5740	1.5740		1.5740	1.5740		24,851.9070	24,851.9070	0.4763	0.4556	24,999.5895
Mobile	120.5304	207.5007	1,561.5400	3.8794	453.8739	3.0164	456.8903	121.1675	2.8272	123.9947		394,954.3869	394,954.3869	17.6459	16.0471	400,177.5645
Stationary	0.4853	2.1600	8.6472	0.0529		0.6706	0.6706		0.6706	0.6706		10,588.4162	10,588.4162	0.2029		10,593.4898
Total	137.4652	230.3751	1,588.0741	4.0567	453.8739	5.2627	459.1366	121.1675	5.0735	126.2410		430,395.7643	430,395.7643	18.3279	16.5027	435,771.7664

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Summer

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	13.9958	4.4400e-003	0.4905	4.0000e-005		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003		1.0542	1.0542	2.7400e-003		1.1227
Energy	2.2781	20.7099	17.3963	0.1243		1.5740	1.5740		1.5740	1.5740		24,851.9070	24,851.9070	0.4763	0.4556	24,999.5895
Mobile	120.5304	207.5007	1,561.5400	3.8794	453.8739	3.0164	456.8903	121.1675	2.8272	123.9947		394,954.3869	394,954.3869	17.6459	16.0471	400,177.5645
Stationary	0.4853	2.1600	8.6472	0.0529		0.6706	0.6706		0.6706	0.6706		10,588.4162	10,588.4162	0.2029		10,593.4898
Total	137.2895	230.3751	1,588.0741	4.0567	453.8739	5.2627	459.1366	121.1675	5.0735	126.2410		430,395.7643	430,395.7643	18.3279	16.5027	435,771.7664

	ROG	NOx	CO	SO2	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	0.13	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	7/1/2026	7/14/2026	5	10	
2	Site Preparation	Site Preparation	7/1/2026	7/21/2026	5	15	
3	Grading	Grading	7/22/2026	9/15/2026	5	40	
4	Building Construction	Building Construction	9/16/2026	12/28/2027	5	335	

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Summer

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

5	Architectural Coating	Architectural Coating	3/23/2027	12/27/2027	5	200
6	Paving	Paving	6/15/2027	10/18/2027	5	90

Acres of Grading (Site Preparation Phase): 46.8

Acres of Grading (Grading Phase): 46.8

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 829,893; Non-Residential Outdoor: 276,631; Striped Parking Area: 90,377 (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	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Summer

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

Architectural Coating	Air Compressors	1	6.00	78	0.48
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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	6	15.00	0.00	29.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	1,250.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	824.00	338.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	165.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Summer

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

3.2 Demolition - 2026

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					0.6300	0.0000	0.6300	0.0954	0.0000	0.0954			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606
Total	2.0926	19.1966	19.4184	0.0388	0.6300	0.8528	1.4828	0.0954	0.7920	0.8874		3,747.5996	3,747.5996	1.0464		3,773.7606

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	5.9000e-003	0.3886	0.0906	1.6900e-003	0.0502	2.8100e-003	0.0530	0.0137	2.6900e-003	0.0164		184.2031	184.2031	6.0900e-003	0.0292	193.0432
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	0.0448	0.0231	0.3466	9.9000e-004	0.1232	6.0000e-004	0.1238	0.0327	5.6000e-004	0.0332		100.5754	100.5754	2.6100e-003	2.5200e-003	101.3927
Total	0.0507	0.4117	0.4372	2.6800e-003	0.1734	3.4100e-003	0.1768	0.0464	3.2500e-003	0.0496		284.7785	284.7785	8.7000e-003	0.0317	294.4359

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Summer

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

3.2 Demolition - 2026

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					0.2835	0.0000	0.2835	0.0429	0.0000	0.0429			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
Total	2.0926	19.1966	19.4184	0.0388	0.2835	0.8528	1.1363	0.0429	0.7920	0.8349	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606

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	5.9000e-003	0.3886	0.0906	1.6900e-003	0.0502	2.8100e-003	0.0530	0.0137	2.6900e-003	0.0164		184.2031	184.2031	6.0900e-003	0.0292	193.0432
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	0.0448	0.0231	0.3466	9.9000e-004	0.1232	6.0000e-004	0.1238	0.0327	5.6000e-004	0.0332		100.5754	100.5754	2.6100e-003	2.5200e-003	101.3927
Total	0.0507	0.4117	0.4372	2.6800e-003	0.1734	3.4100e-003	0.1768	0.0464	3.2500e-003	0.0496		284.7785	284.7785	8.7000e-003	0.0317	294.4359

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Summer

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

3.3 Site Preparation - 2026

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					21.3750	0.0000	21.3750	10.2880	0.0000	10.2880			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	21.3750	1.0868	22.4618	10.2880	0.9999	11.2878		3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0537	0.0277	0.4159	1.1900e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		120.6904	120.6904	3.1300e-003	3.0300e-003	121.6713
Total	0.0537	0.0277	0.4159	1.1900e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		120.6904	120.6904	3.1300e-003	3.0300e-003	121.6713

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Summer

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

3.3 Site Preparation - 2026

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					9.6188	0.0000	9.6188	4.6296	0.0000	4.6296			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	9.6188	1.0868	10.7056	4.6296	0.9999	5.6294	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0537	0.0277	0.4159	1.1900e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		120.6904	120.6904	3.1300e-003	3.0300e-003	121.6713
Total	0.0537	0.0277	0.4159	1.1900e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		120.6904	120.6904	3.1300e-003	3.0300e-003	121.6713

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Summer

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

3.4 Grading - 2026

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					7.2911	0.0000	7.2911	3.4485	0.0000	3.4485			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	2.9012	27.9429	26.3311	0.0621	7.2911	1.1309	8.4220	3.4485	1.0404	4.4889		6,008.281 4	6,008.281 4	1.9432		6,056.861 4

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0635	4.1872	0.9763	0.0182	0.5408	0.0303	0.5710	0.1477	0.0290	0.1767		1,984.947 2	1,984.947 2	0.0656	0.3142	2,080.207 1
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	0.0597	0.0308	0.4621	1.3300e-003	0.1643	8.1000e-004	0.1651	0.0436	7.4000e-004	0.0443		134.1005	134.1005	3.4800e-003	3.3700e-003	135.1903
Total	0.1232	4.2180	1.4384	0.0196	0.7051	0.0311	0.7361	0.1913	0.0297	0.2210		2,119.047 7	2,119.047 7	0.0691	0.3175	2,215.397 4

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Summer

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

3.4 Grading - 2026

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					3.2810	0.0000	3.2810	1.5518	0.0000	1.5518			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	3.2810	1.1309	4.4119	1.5518	1.0404	2.5922	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0635	4.1872	0.9763	0.0182	0.5408	0.0303	0.5710	0.1477	0.0290	0.1767		1,984.9472	1,984.9472	0.0656	0.3142	2,080.2071
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	0.0597	0.0308	0.4621	1.3300e-003	0.1643	8.1000e-004	0.1651	0.0436	7.4000e-004	0.0443		134.1005	134.1005	3.4800e-003	3.3700e-003	135.1903
Total	0.1232	4.2180	1.4384	0.0196	0.7051	0.0311	0.7361	0.1913	0.0297	0.2210		2,119.0477	2,119.0477	0.0691	0.3175	2,215.3974

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Summer

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

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.3159	13.9560	3.9448	0.0591	2.0600	0.0748	2.1348	0.5924	0.0716	0.6639		6,341.625 9	6,341.625 9	0.1302	0.9587	6,630.577 7
Worker	2.4592	1.2680	19.0385	0.0547	6.7690	0.0332	6.8022	1.7955	0.0306	1.8260		5,524.939 2	5,524.939 2	0.1432	0.1387	5,569.840 3
Total	2.7751	15.2240	22.9833	0.1138	8.8290	0.1080	8.9370	2.3878	0.1021	2.4900		11,866.56 51	11,866.56 51	0.2735	1.0974	12,200.41 80

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Summer

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

3.5 Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 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	0.0000	0.0000	0.0000	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	0.3159	13.9560	3.9448	0.0591	2.0600	0.0748	2.1348	0.5924	0.0716	0.6639		6,341.625 9	6,341.625 9	0.1302	0.9587	6,630.577 7
Worker	2.4592	1.2680	19.0385	0.0547	6.7690	0.0332	6.8022	1.7955	0.0306	1.8260		5,524.939 2	5,524.939 2	0.1432	0.1387	5,569.840 3
Total	2.7751	15.2240	22.9833	0.1138	8.8290	0.1080	8.9370	2.3878	0.1021	2.4900		11,866.56 51	11,866.56 51	0.2735	1.0974	12,200.41 80

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Summer

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

3.5 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.3065	13.7850	3.8767	0.0579	2.0599	0.0736	2.1334	0.5923	0.0704	0.6627		6,215.990 0	6,215.990 0	0.1324	0.9396	6,499.286 9
Worker	2.3039	1.1481	17.8285	0.0530	6.7690	0.0310	6.8000	1.7955	0.0286	1.8240		5,360.816 6	5,360.816 6	0.1304	0.1307	5,403.009 7
Total	2.6104	14.9331	21.7052	0.1109	8.8289	0.1046	8.9334	2.3878	0.0989	2.4867		11,576.80 66	11,576.80 66	0.2628	1.0702	11,902.29 66

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Summer

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

3.5 Building Construction - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 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	0.0000	0.0000	0.0000	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	0.3065	13.7850	3.8767	0.0579	2.0599	0.0736	2.1334	0.5923	0.0704	0.6627		6,215.990 0	6,215.990 0	0.1324	0.9396	6,499.286 9
Worker	2.3039	1.1481	17.8285	0.0530	6.7690	0.0310	6.8000	1.7955	0.0286	1.8240		5,360.816 6	5,360.816 6	0.1304	0.1307	5,403.009 7
Total	2.6104	14.9331	21.7052	0.1109	8.8289	0.1046	8.9334	2.3878	0.0989	2.4867		11,576.80 66	11,576.80 66	0.2628	1.0702	11,902.29 66

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Summer

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

3.6 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	31.9909					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	32.1618	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.4613	0.2299	3.5700	0.0106	1.3554	6.2100e-003	1.3617	0.3595	5.7200e-003	0.3653		1,073.4645	1,073.4645	0.0261	0.0262	1,081.9134
Total	0.4613	0.2299	3.5700	0.0106	1.3554	6.2100e-003	1.3617	0.3595	5.7200e-003	0.3653		1,073.4645	1,073.4645	0.0261	0.0262	1,081.9134

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Summer

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

3.6 Architectural Coating - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	31.9909					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	32.1618	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.4613	0.2299	3.5700	0.0106	1.3554	6.2100e-003	1.3617	0.3595	5.7200e-003	0.3653		1,073.4645	1,073.4645	0.0261	0.0262	1,081.9134
Total	0.4613	0.2299	3.5700	0.0106	1.3554	6.2100e-003	1.3617	0.3595	5.7200e-003	0.3653		1,073.4645	1,073.4645	0.0261	0.0262	1,081.9134

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Summer

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

3.7 Paving - 2027

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0419	0.0209	0.3246	9.7000e-004	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		97.5877	97.5877	2.3700e-003	2.3800e-003	98.3558
Total	0.0419	0.0209	0.3246	9.7000e-004	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		97.5877	97.5877	2.3700e-003	2.3800e-003	98.3558

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Summer

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

3.7 Paving - 2027

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0419	0.0209	0.3246	9.7000e-004	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		97.5877	97.5877	2.3700e-003	2.3800e-003	98.3558
Total	0.0419	0.0209	0.3246	9.7000e-004	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		97.5877	97.5877	2.3700e-003	2.3800e-003	98.3558

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	120.5304	207.5007	1,561.5400	3.8794	453.8739	3.0164	456.8903	121.1675	2.8272	123.9947		394,954.3869	394,954.3869	17.6459	16.0471	400,177.5645
Unmitigated	120.5304	207.5007	1,561.5400	3.8794	453.8739	3.0164	456.8903	121.1675	2.8272	123.9947		394,954.3869	394,954.3869	17.6459	16.0471	400,177.5645

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	400.00	410.00	410.00	3,824,439	3,824,439
Parking Lot	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
User Defined Commercial	6,584.85	10,164.77	10,164.77	124,295,346	124,295,346
User Defined Commercial	1,777.80	2,744.32	2,744.32	33,557,716	33,557,716
Total	8,762.65	13,319.09	13,319.09	161,677,501	161,677,501

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hotel	14.70	55.00	10.00	19.40	61.60	19.00	58	38	4
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Summer

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

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unenclosed Parking with	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
User Defined Commercial	14.70	55.00	10.00	5.00	77.00	18.00	100	0	0
User Defined Commercial	14.70	55.00	10.00	5.00	77.00	18.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hotel	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580
Parking Lot	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580
Unenclosed Parking with Elevator	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580
User Defined Commercial	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	2.2781	20.7099	17.3963	0.1243		1.5740	1.5740		1.5740	1.5740		24,851.9070	24,851.9070	0.4763	0.4556	24,999.5895
NaturalGas Unmitigated	2.2781	20.7099	17.3963	0.1243		1.5740	1.5740		1.5740	1.5740		24,851.9070	24,851.9070	0.4763	0.4556	24,999.5895

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Summer

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Hotel	17730	0.1912	1.7382	1.4601	0.0104		0.1321	0.1321		0.1321	0.1321		2,085.8842	2,085.8842	0.0400	0.0382	2,098.2796
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	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
User Defined Commercial	15797.7	0.1704	1.5488	1.3010	9.2900e-003		0.1177	0.1177		0.1177	0.1177		1,858.5504	1,858.5504	0.0356	0.0341	1,869.5949
User Defined Commercial	177714	1.9165	17.4229	14.6352	0.1045		1.3241	1.3241		1.3241	1.3241		20,907.4723	20,907.4723	0.4007	0.3833	21,031.7150
Total		2.2781	20.7099	17.3963	0.1243		1.5740	1.5740		1.5740	1.5740		24,851.9070	24,851.9070	0.4763	0.4556	24,999.5895

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Summer

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Hotel	17.73	0.1912	1.7382	1.4601	0.0104		0.1321	0.1321		0.1321	0.1321		2,085.8842	2,085.8842	0.0400	0.0382	2,098.2796
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	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
User Defined Commercial	15.7977	0.1704	1.5488	1.3010	9.2900e-003		0.1177	0.1177		0.1177	0.1177		1,858.5504	1,858.5504	0.0356	0.0341	1,869.5949
User Defined Commercial	177.714	1.9165	17.4229	14.6352	0.1045		1.3241	1.3241		1.3241	1.3241		20,907.4723	20,907.4723	0.4007	0.3833	21,031.7150
Total		2.2781	20.7099	17.3963	0.1243		1.5740	1.5740		1.5740	1.5740		24,851.9070	24,851.9070	0.4763	0.4556	24,999.5895

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	13.9958	4.4400e-003	0.4905	4.0000e-005		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003		1.0542	1.0542	2.7400e-003		1.1227
Unmitigated	14.1714	4.4400e-003	0.4905	4.0000e-005		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003		1.0542	1.0542	2.7400e-003		1.1227

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	1.7529					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.3733					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0452	4.4400e-003	0.4905	4.0000e-005		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003		1.0542	1.0542	2.7400e-003		1.1227
Total	14.1714	4.4400e-003	0.4905	4.0000e-005		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003		1.0542	1.0542	2.7400e-003		1.1227

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.5773					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.3733					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0452	4.4400e-003	0.4905	4.0000e-005		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003		1.0542	1.0542	2.7400e-003		1.1227
Total	13.9958	4.4400e-003	0.4905	4.0000e-005		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003		1.0542	1.0542	2.7400e-003		1.1227

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Summer

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

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	3	0	84	2447	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	3	30	10950	0.5	CNG

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Boiler - CNG (0 - 2 MMBTU)	0.4853	2.1600	8.6472	0.0529		0.6706	0.6706		0.6706	0.6706		10,588.4162	10,588.4162	0.2029		10,593.4898
Emergency Generator - Diesel (750 - 9999 HP)	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	0.4853	2.1600	8.6472	0.0529		0.6706	0.6706		0.6706	0.6706		10,588.4162	10,588.4162	0.2029		10,593.4898

11.0 Vegetation

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Winter

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

**Koi Nation Shiloh Resort and Casino - Alternative B
Sonoma-San Francisco County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Commercial	122.60	User Defined Unit	46.80	372,747.00	0
User Defined Commercial	33.10	User Defined Unit	0.00	33,135.00	0
Parking Lot	769.00	Space	0.00	292,200.00	0
Unenclosed Parking with Elevator	3,692.00	Space	0.00	1,214,080.00	0
Hotel	200.00	Room	0.00	147,380.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	75
Climate Zone	4			Operational Year	2028
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See input tables for assumptions.

Construction Phase - See input tables for assumptions.

Demolition -

Grading - See input tables for assumptions.

Vehicle Trips - See input tables for assumptions.

Energy Use - See input tables for assumptions.

Water And Wastewater - See input tables for assumptions.

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Winter

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

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	55.00	200.00
tblConstructionPhase	NumDays	740.00	335.00
tblConstructionPhase	NumDays	50.00	10.00
tblConstructionPhase	NumDays	75.00	40.00
tblConstructionPhase	NumDays	55.00	90.00
tblConstructionPhase	NumDays	30.00	15.00
tblEnergyUse	LightingElect	0.00	6.78
tblEnergyUse	NT24E	0.00	23.69
tblEnergyUse	NT24NG	0.00	138.46
tblEnergyUse	T24E	0.00	7.35
tblEnergyUse	T24NG	0.00	35.56
tblGrading	AcresOfGrading	120.00	46.80
tblGrading	AcresOfGrading	22.50	46.80
tblGrading	MaterialImported	0.00	10,000.00
tblLandUse	LandUseSquareFeet	0.00	372,747.00
tblLandUse	LandUseSquareFeet	0.00	33,135.00
tblLandUse	LandUseSquareFeet	307,600.00	292,200.00
tblLandUse	LandUseSquareFeet	1,476,800.00	1,214,080.00
tblLandUse	LandUseSquareFeet	290,400.00	147,380.00
tblLandUse	LotAcreage	0.00	46.80
tblLandUse	LotAcreage	6.92	0.00
tblLandUse	LotAcreage	33.23	0.00
tblLandUse	LotAcreage	6.67	0.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	109.50	1,267.00

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Winter

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

tblStationaryBoilersUse	AnnualHeatInput	0.00	10,950.00
tblStationaryBoilersUse	BoilerRatingValue	0.00	0.50
tblStationaryBoilersUse	DailyHeatInput	0.00	30.00
tblStationaryBoilersUse	NumberOfEquipment	0.00	3.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	2,447.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	84.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	3.00
tblVehicleTrips	CC_TL	6.60	55.00
tblVehicleTrips	CC_TL	6.60	55.00
tblVehicleTrips	CC_TTP	0.00	77.00
tblVehicleTrips	CNW_TL	6.60	10.00
tblVehicleTrips	CNW_TL	6.60	10.00
tblVehicleTrips	CNW_TTP	0.00	18.00
tblVehicleTrips	CW_TTP	0.00	5.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	8.19	2.05
tblVehicleTrips	ST_TR	0.00	82.91
tblVehicleTrips	SU_TR	5.95	2.05
tblVehicleTrips	SU_TR	0.00	82.91
tblVehicleTrips	WD_TR	8.36	2.00
tblVehicleTrips	WD_TR	0.00	53.71
tblWater	IndoorWaterUseRate	5,073,354.00	42,705,000.00
tblWater	OutdoorWaterUseRate	563,706.00	0.00

2.0 Emissions Summary

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2026	4.6740	44.9030	38.6473	0.1374	22.3263	1.9437	24.2700	10.4690	1.7957	12.2647	0.0000	14,083.01 99	14,083.01 99	2.2522	1.1205	14,439.26 48
2027	37.6851	38.4590	57.6187	0.1712	10.3075	1.1093	11.4168	2.7800	1.0383	3.8183	0.0000	17,389.41 86	17,389.41 86	1.6425	1.1249	17,765.71 34
Maximum	37.6851	44.9030	57.6187	0.1712	22.3263	1.9437	24.2700	10.4690	1.7957	12.2647	0.0000	17,389.41 86	17,389.41 86	2.2522	1.1249	17,765.71 34

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					
2026	4.6740	44.9030	38.6473	0.1374	10.2235	1.9437	12.1672	4.7581	1.7957	6.5539	0.0000	14,083.01 99	14,083.01 99	2.2522	1.1205	14,439.26 48
2027	37.6851	38.4590	57.6187	0.1712	10.3075	1.1093	11.4168	2.7800	1.0383	3.8183	0.0000	17,389.41 86	17,389.41 86	1.6425	1.1249	17,765.71 34
Maximum	37.6851	44.9030	57.6187	0.1712	10.3075	1.9437	12.1672	4.7581	1.7957	6.5539	0.0000	17,389.41 86	17,389.41 86	2.2522	1.1249	17,765.71 34

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	37.09	0.00	33.91	43.10	0.00	35.51	0.00	0.00	0.00	0.00	0.00	0.00

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	14.1714	4.4400e-003	0.4905	4.0000e-005		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003		1.0542	1.0542	2.7400e-003		1.1227
Energy	2.2781	20.7099	17.3963	0.1243		1.5740	1.5740		1.5740	1.5740		24,851.9070	24,851.9070	0.4763	0.4556	24,999.5895
Mobile	122.1543	233.3098	1,575.2268	3.6885	453.8739	3.0166	456.8905	121.1675	2.8274	123.9949		375,672.4309	375,672.4309	18.4650	17.2103	381,262.7324
Stationary	0.4853	2.1600	8.6472	0.0529		0.6706	0.6706		0.6706	0.6706		10,588.4162	10,588.4162	0.2029		10,593.4898
Total	139.0891	256.1842	1,601.7608	3.8657	453.8739	5.2629	459.1368	121.1675	5.0737	126.2412		411,113.8082	411,113.8082	19.1470	17.6659	416,856.9344

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Winter

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	13.9958	4.4400e-003	0.4905	4.0000e-005		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003		1.0542	1.0542	2.7400e-003		1.1227
Energy	2.2781	20.7099	17.3963	0.1243		1.5740	1.5740		1.5740	1.5740		24,851.9070	24,851.9070	0.4763	0.4556	24,999.5895
Mobile	122.1543	233.3098	1,575.2268	3.6885	453.8739	3.0166	456.8905	121.1675	2.8274	123.9949		375,672.4309	375,672.4309	18.4650	17.2103	381,262.7324
Stationary	0.4853	2.1600	8.6472	0.0529		0.6706	0.6706		0.6706	0.6706		10,588.4162	10,588.4162	0.2029		10,593.4898
Total	138.9135	256.1842	1,601.7608	3.8657	453.8739	5.2629	459.1368	121.1675	5.0737	126.2412		411,113.8082	411,113.8082	19.1470	17.6659	416,856.9344

	ROG	NOx	CO	SO2	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	0.13	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	7/1/2026	7/14/2026	5	10	
2	Site Preparation	Site Preparation	7/1/2026	7/21/2026	5	15	
3	Grading	Grading	7/22/2026	9/15/2026	5	40	
4	Building Construction	Building Construction	9/16/2026	12/28/2027	5	335	

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Winter

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

5	Architectural Coating	Architectural Coating	3/23/2027	12/27/2027	5	200
6	Paving	Paving	6/15/2027	10/18/2027	5	90

Acres of Grading (Site Preparation Phase): 46.8

Acres of Grading (Grading Phase): 46.8

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 829,893; Non-Residential Outdoor: 276,631; Striped Parking Area: 90,377 (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	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Winter

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

Architectural Coating	Air Compressors	1	6.00	78	0.48
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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	6	15.00	0.00	29.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	1,250.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	824.00	338.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	165.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Winter

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

3.2 Demolition - 2026

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					0.6300	0.0000	0.6300	0.0954	0.0000	0.0954			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606
Total	2.0926	19.1966	19.4184	0.0388	0.6300	0.8528	1.4828	0.0954	0.7920	0.8874		3,747.5996	3,747.5996	1.0464		3,773.7606

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	5.5700e-003	0.4098	0.0913	1.6900e-003	0.0502	2.8100e-003	0.0530	0.0137	2.6900e-003	0.0164		184.3419	184.3419	6.0700e-003	0.0292	193.1893
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	0.0469	0.0285	0.3367	9.3000e-004	0.1232	6.0000e-004	0.1238	0.0327	5.6000e-004	0.0332		94.2319	94.2319	2.9600e-003	2.9100e-003	95.1727
Total	0.0524	0.4383	0.4280	2.6200e-003	0.1734	3.4100e-003	0.1768	0.0464	3.2500e-003	0.0496		278.5738	278.5738	9.0300e-003	0.0321	288.3620

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Winter

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

3.2 Demolition - 2026

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					0.2835	0.0000	0.2835	0.0429	0.0000	0.0429			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
Total	2.0926	19.1966	19.4184	0.0388	0.2835	0.8528	1.1363	0.0429	0.7920	0.8349	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606

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	5.5700e-003	0.4098	0.0913	1.6900e-003	0.0502	2.8100e-003	0.0530	0.0137	2.6900e-003	0.0164		184.3419	184.3419	6.0700e-003	0.0292	193.1893
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	0.0469	0.0285	0.3367	9.3000e-004	0.1232	6.0000e-004	0.1238	0.0327	5.6000e-004	0.0332		94.2319	94.2319	2.9600e-003	2.9100e-003	95.1727
Total	0.0524	0.4383	0.4280	2.6200e-003	0.1734	3.4100e-003	0.1768	0.0464	3.2500e-003	0.0496		278.5738	278.5738	9.0300e-003	0.0321	288.3620

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Winter

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

3.3 Site Preparation - 2026

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					21.3750	0.0000	21.3750	10.2880	0.0000	10.2880			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	21.3750	1.0868	22.4618	10.2880	0.9999	11.2878		3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0562	0.0342	0.4040	1.1200e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		113.0783	113.0783	3.5500e-003	3.4900e-003	114.2073
Total	0.0562	0.0342	0.4040	1.1200e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		113.0783	113.0783	3.5500e-003	3.4900e-003	114.2073

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Winter

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

3.3 Site Preparation - 2026

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					9.6188	0.0000	9.6188	4.6296	0.0000	4.6296			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	9.6188	1.0868	10.7056	4.6296	0.9999	5.6294	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0562	0.0342	0.4040	1.1200e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		113.0783	113.0783	3.5500e-003	3.4900e-003	114.2073
Total	0.0562	0.0342	0.4040	1.1200e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		113.0783	113.0783	3.5500e-003	3.4900e-003	114.2073

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Winter

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

3.4 Grading - 2026

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					7.2911	0.0000	7.2911	3.4485	0.0000	3.4485			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	7.2911	1.1309	8.4220	3.4485	1.0404	4.4889		6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0601	4.4158	0.9841	0.0183	0.5408	0.0303	0.5711	0.1477	0.0290	0.1767		1,986.4429	1,986.4429	0.0654	0.3144	2,081.7814
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	0.0625	0.0380	0.4489	1.2400e-003	0.1643	8.1000e-004	0.1651	0.0436	7.4000e-004	0.0443		125.6426	125.6426	3.9500e-003	3.8800e-003	126.8970
Total	0.1226	4.4539	1.4330	0.0195	0.7051	0.0311	0.7362	0.1913	0.0298	0.2211		2,112.0855	2,112.0855	0.0694	0.3183	2,208.6784

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Winter

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

3.4 Grading - 2026

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					3.2810	0.0000	3.2810	1.5518	0.0000	1.5518			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	3.2810	1.1309	4.4119	1.5518	1.0404	2.5922	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0601	4.4158	0.9841	0.0183	0.5408	0.0303	0.5711	0.1477	0.0290	0.1767		1,986.4429	1,986.4429	0.0654	0.3144	2,081.7814
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	0.0625	0.0380	0.4489	1.2400e-003	0.1643	8.1000e-004	0.1651	0.0436	7.4000e-004	0.0443		125.6426	125.6426	3.9500e-003	3.8800e-003	126.8970
Total	0.1226	4.4539	1.4330	0.0195	0.7051	0.0311	0.7362	0.1913	0.0298	0.2211		2,112.0855	2,112.0855	0.0694	0.3183	2,208.6784

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Winter

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

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.3062	14.7116	4.0686	0.0592	2.0600	0.0751	2.1352	0.5924	0.0719	0.6642		6,350.071 4	6,350.071 4	0.1294	0.9608	6,639.612 4
Worker	2.5745	1.5673	18.4941	0.0512	6.7690	0.0332	6.8022	1.7955	0.0306	1.8260		5,176.474 2	5,176.474 2	0.1626	0.1598	5,228.154 4
Total	2.8807	16.2789	22.5626	0.1104	8.8290	0.1084	8.9374	2.3878	0.1025	2.4903		11,526.54 56	11,526.54 56	0.2920	1.1205	11,867.76 68

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Winter

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

3.5 Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 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	0.0000	0.0000	0.0000	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	0.3062	14.7116	4.0686	0.0592	2.0600	0.0751	2.1352	0.5924	0.0719	0.6642		6,350.071 4	6,350.071 4	0.1294	0.9608	6,639.612 4
Worker	2.5745	1.5673	18.4941	0.0512	6.7690	0.0332	6.8022	1.7955	0.0306	1.8260		5,176.474 2	5,176.474 2	0.1626	0.1598	5,228.154 4
Total	2.8807	16.2789	22.5626	0.1104	8.8290	0.1084	8.9374	2.3878	0.1025	2.4903		11,526.54 56	11,526.54 56	0.2920	1.1205	11,867.76 68

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Winter

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

3.5 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.2962	14.5331	3.9991	0.0580	2.0599	0.0739	2.1338	0.5923	0.0707	0.6630		6,224.484 0	6,224.484 0	0.1316	0.9415	6,508.353 8
Worker	2.4167	1.4191	17.3564	0.0497	6.7690	0.0310	6.8000	1.7955	0.0286	1.8240		5,023.008 1	5,023.008 1	0.1485	0.1505	5,071.573 8
Total	2.7129	15.9522	21.3555	0.1077	8.8289	0.1049	8.9338	2.3878	0.0992	2.4870		11,247.49 20	11,247.49 20	0.2800	1.0921	11,579.92 76

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Winter

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

3.5 Building Construction - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 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	0.0000	0.0000	0.0000	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	0.2962	14.5331	3.9991	0.0580	2.0599	0.0739	2.1338	0.5923	0.0707	0.6630		6,224.484 0	6,224.484 0	0.1316	0.9415	6,508.353 8
Worker	2.4167	1.4191	17.3564	0.0497	6.7690	0.0310	6.8000	1.7955	0.0286	1.8240		5,023.008 1	5,023.008 1	0.1485	0.1505	5,071.573 8
Total	2.7129	15.9522	21.3555	0.1077	8.8289	0.1049	8.9338	2.3878	0.0992	2.4870		11,247.49 20	11,247.49 20	0.2800	1.0921	11,579.92 76

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Winter

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

3.6 Architectural Coating - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	31.9909					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	32.1618	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.4839	0.2842	3.4755	9.9500e-003	1.3554	6.2100e-003	1.3617	0.3595	5.7200e-003	0.3653		1,005.8208	1,005.8208	0.0297	0.0301	1,015.5457
Total	0.4839	0.2842	3.4755	9.9500e-003	1.3554	6.2100e-003	1.3617	0.3595	5.7200e-003	0.3653		1,005.8208	1,005.8208	0.0297	0.0301	1,015.5457

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Winter

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

3.6 Architectural Coating - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	31.9909					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	32.1618	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.4839	0.2842	3.4755	9.9500e-003	1.3554	6.2100e-003	1.3617	0.3595	5.7200e-003	0.3653		1,005.8208	1,005.8208	0.0297	0.0301	1,015.5457
Total	0.4839	0.2842	3.4755	9.9500e-003	1.3554	6.2100e-003	1.3617	0.3595	5.7200e-003	0.3653		1,005.8208	1,005.8208	0.0297	0.0301	1,015.5457

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Winter

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

3.7 Paving - 2027

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878

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	0.0440	0.0258	0.3160	9.0000e-004	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		91.4383	91.4383	2.7000e-003	2.7400e-003	92.3223
Total	0.0440	0.0258	0.3160	9.0000e-004	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		91.4383	91.4383	2.7000e-003	2.7400e-003	92.3223

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Winter

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

3.7 Paving - 2027

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0440	0.0258	0.3160	9.0000e-004	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		91.4383	91.4383	2.7000e-003	2.7400e-003	92.3223
Total	0.0440	0.0258	0.3160	9.0000e-004	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		91.4383	91.4383	2.7000e-003	2.7400e-003	92.3223

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	122.1543	233.3098	1,575.2268	3.6885	453.8739	3.0166	456.8905	121.1675	2.8274	123.9949		375,672.4309	375,672.4309	18.4650	17.2103	381,262.7324
Unmitigated	122.1543	233.3098	1,575.2268	3.6885	453.8739	3.0166	456.8905	121.1675	2.8274	123.9949		375,672.4309	375,672.4309	18.4650	17.2103	381,262.7324

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	400.00	410.00	410.00	3,824,439	3,824,439
Parking Lot	0.00	0.00	0.00		
Unenclosed Parking with Elevator	0.00	0.00	0.00		
User Defined Commercial	6,584.85	10,164.77	10,164.77	124,295,346	124,295,346
User Defined Commercial	1,777.80	2,744.32	2,744.32	33,557,716	33,557,716
Total	8,762.65	13,319.09	13,319.09	161,677,501	161,677,501

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hotel	14.70	55.00	10.00	19.40	61.60	19.00	58	38	4
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Winter

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

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Unenclosed Parking with	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0
User Defined Commercial	14.70	55.00	10.00	5.00	77.00	18.00	100	0	0
User Defined Commercial	14.70	55.00	10.00	5.00	77.00	18.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hotel	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580
Parking Lot	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580
Unenclosed Parking with Elevator	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580
User Defined Commercial	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	2.2781	20.7099	17.3963	0.1243		1.5740	1.5740		1.5740	1.5740		24,851.9070	24,851.9070	0.4763	0.4556	24,999.5895
NaturalGas Unmitigated	2.2781	20.7099	17.3963	0.1243		1.5740	1.5740		1.5740	1.5740		24,851.9070	24,851.9070	0.4763	0.4556	24,999.5895

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Winter

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Hotel	17730	0.1912	1.7382	1.4601	0.0104		0.1321	0.1321		0.1321	0.1321		2,085.884 2	2,085.884 2	0.0400	0.0382	2,098.279 6
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	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
User Defined Commercial	15797.7	0.1704	1.5488	1.3010	9.2900e-003		0.1177	0.1177		0.1177	0.1177		1,858.550 4	1,858.550 4	0.0356	0.0341	1,869.594 9
User Defined Commercial	177714	1.9165	17.4229	14.6352	0.1045		1.3241	1.3241		1.3241	1.3241		20,907.47 23	20,907.47 23	0.4007	0.3833	21,031.71 50
Total		2.2781	20.7099	17.3963	0.1243		1.5740	1.5740		1.5740	1.5740		24,851.90 70	24,851.90 70	0.4763	0.4556	24,999.58 95

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Winter

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Hotel	17.73	0.1912	1.7382	1.4601	0.0104		0.1321	0.1321		0.1321	0.1321		2,085.884 2	2,085.884 2	0.0400	0.0382	2,098.279 6
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking with Elevator	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
User Defined Commercial	15.7977	0.1704	1.5488	1.3010	9.2900e-003		0.1177	0.1177		0.1177	0.1177		1,858.550 4	1,858.550 4	0.0356	0.0341	1,869.594 9
User Defined Commercial	177.714	1.9165	17.4229	14.6352	0.1045		1.3241	1.3241		1.3241	1.3241		20,907.47 23	20,907.47 23	0.4007	0.3833	21,031.71 50
Total		2.2781	20.7099	17.3963	0.1243		1.5740	1.5740		1.5740	1.5740		24,851.90 70	24,851.90 70	0.4763	0.4556	24,999.58 95

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	13.9958	4.4400e-003	0.4905	4.0000e-005		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003		1.0542	1.0542	2.7400e-003		1.1227
Unmitigated	14.1714	4.4400e-003	0.4905	4.0000e-005		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003		1.0542	1.0542	2.7400e-003		1.1227

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	1.7529					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.3733					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0452	4.4400e-003	0.4905	4.0000e-005		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003		1.0542	1.0542	2.7400e-003		1.1227
Total	14.1714	4.4400e-003	0.4905	4.0000e-005		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003		1.0542	1.0542	2.7400e-003		1.1227

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Winter

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.5773					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.3733					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0452	4.4400e-003	0.4905	4.0000e-005		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003		1.0542	1.0542	2.7400e-003		1.1227
Total	13.9958	4.4400e-003	0.4905	4.0000e-005		1.7400e-003	1.7400e-003		1.7400e-003	1.7400e-003		1.0542	1.0542	2.7400e-003		1.1227

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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

Koi Nation Shiloh Resort and Casino - Alternative B - Sonoma-San Francisco County, Winter

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

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	3	0	84	2447	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	3	30	10950	0.5	CNG

User Defined Equipment

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

10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Boiler - CNG (0 - 2 MMBTU)	0.4853	2.1600	8.6472	0.0529		0.6706	0.6706		0.6706	0.6706		10,588.4162	10,588.4162	0.2029		10,593.4898
Emergency Generator - Diesel (750 - 9999 HP)	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	0.4853	2.1600	8.6472	0.0529		0.6706	0.6706		0.6706	0.6706		10,588.4162	10,588.4162	0.2029		10,593.4898

11.0 Vegetation

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Annual

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

Koi Nation Shiloh Resort and Casino - Alternative C

Sonoma-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Commercial	20.00	User Defined Unit	0.00	20,000.00	0
Parking Lot	492.00	Space	0.00	145,800.00	0
Hotel	200.00	Room	0.00	161,400.00	0
Quality Restaurant	5.00	1000sqft	25.00	5,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	75
Climate Zone	4			Operational Year	2028
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - See input tables for assumptions.
- Construction Phase - See input tables for assumptions.
- Demolition -
- Grading - See input tables for assumptions.
- Vehicle Trips - See input tables for assumptions.
- Energy Use - See input tables for assumptions.
- Water And Wastewater - See input tables for assumptions.
- Solid Waste - See input tables for assumptions.

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Annual

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

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	NumDays	35.00	40.00
tblConstructionPhase	NumDays	370.00	335.00
tblConstructionPhase	NumDays	20.00	200.00
tblConstructionPhase	NumDays	20.00	90.00
tblEnergyUse	LightingElect	0.00	3.08
tblEnergyUse	NT24E	0.00	3.70
tblEnergyUse	NT24NG	0.00	6.67
tblEnergyUse	T24E	0.00	1.32
tblEnergyUse	T24NG	0.00	19.51
tblGrading	AcresOfGrading	120.00	25.00
tblGrading	AcresOfGrading	22.50	25.00
tblGrading	MaterialImported	0.00	10,000.00
tblLandUse	LandUseSquareFeet	0.00	20,000.00
tblLandUse	LandUseSquareFeet	196,800.00	145,800.00
tblLandUse	LandUseSquareFeet	290,400.00	161,400.00
tblLandUse	LotAcreage	4.43	0.00
tblLandUse	LotAcreage	6.67	0.00
tblLandUse	LotAcreage	0.11	25.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	109.50	133.00
tblSolidWaste	SolidWasteGenerationRate	4.56	0.00
tblStationaryBoilersUse	AnnualHeatInput	0.00	7,300.00
tblStationaryBoilersUse	BoilerRatingValue	0.00	0.50
tblStationaryBoilersUse	DailyHeatInput	0.00	20.00

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tblStationaryBoilersUse	NumberOfEquipment	0.00	2.00
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	2,447.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	84.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	2.00
tblVehicleTrips	CC_TL	6.60	55.00
tblVehicleTrips	CC_TL	6.60	55.00
tblVehicleTrips	CC_TTP	0.00	10.00
tblVehicleTrips	CNW_TL	6.60	10.00
tblVehicleTrips	CNW_TL	6.60	10.00
tblVehicleTrips	CNW_TL	6.60	10.00
tblVehicleTrips	CNW_TTP	0.00	53.00
tblVehicleTrips	CW_TTP	0.00	37.00
tblVehicleTrips	PB_TP	0.00	20.00
tblVehicleTrips	PR_TP	0.00	80.00
tblVehicleTrips	ST_TR	90.04	208.60
tblVehicleTrips	ST_TR	0.00	1.15
tblVehicleTrips	SU_TR	71.97	208.60
tblVehicleTrips	WD_TR	8.36	7.99
tblVehicleTrips	WD_TR	83.84	80.00
tblVehicleTrips	WD_TR	0.00	4.50
tblWater	IndoorWaterUseRate	5,073,354.00	6,935,000.00
tblWater	IndoorWaterUseRate	1,517,668.56	0.00
tblWater	OutdoorWaterUseRate	563,706.00	0.00
tblWater	OutdoorWaterUseRate	96,872.46	0.00

2.0 Emissions Summary

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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					
2026	0.1596	1.4935	1.5470	3.7900e-003	0.3528	0.0565	0.4093	0.1623	0.0525	0.2148	0.0000	339.2288	339.2288	0.0718	0.0110	344.2948
2027	1.3005	2.4359	3.4279	7.2900e-003	0.2079	0.0944	0.3022	0.0563	0.0887	0.1450	0.0000	649.8848	649.8848	0.1066	0.0209	658.7753
Maximum	1.3005	2.4359	3.4279	7.2900e-003	0.3528	0.0944	0.4093	0.1623	0.0887	0.2148	0.0000	649.8848	649.8848	0.1066	0.0209	658.7753

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					
2026	0.1596	1.4935	1.5470	3.7900e-003	0.1957	0.0565	0.2522	0.0830	0.0525	0.1355	0.0000	339.2286	339.2286	0.0718	0.0110	344.2945
2027	1.3005	2.4359	3.4279	7.2900e-003	0.2079	0.0944	0.3022	0.0563	0.0887	0.1450	0.0000	649.8843	649.8843	0.1066	0.0209	658.7748
Maximum	1.3005	2.4359	3.4279	7.2900e-003	0.2079	0.0944	0.3022	0.0830	0.0887	0.1450	0.0000	649.8843	649.8843	0.1066	0.0209	658.7748

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	ROG	NOx	CO	SO2	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	28.02	0.00	22.08	36.25	0.00	22.02	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2026	9-30-2026	1.0928	1.0928
2	10-1-2026	12-31-2026	0.5563	0.5563
3	1-1-2027	3-31-2027	0.5784	0.5784
4	4-1-2027	6-30-2027	0.9687	0.9687
5	7-1-2027	9-30-2027	1.2382	1.2382
		Highest	1.2382	1.2382

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

2.2 Overall Operational

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	0.8383	6.0000e-005	6.5700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0128	0.0128	3.0000e-005	0.0000	0.0136
Energy	0.0466	0.4239	0.3561	2.5400e-003		0.0322	0.0322		0.0322	0.0322	0.0000	606.5376	606.5376	0.0323	0.0113	610.7145
Mobile	2.1171	3.6187	24.8298	0.0588	6.8472	0.0482	6.8954	1.8348	0.0452	1.8799	0.0000	5,433.0592	5,433.0592	0.2753	0.2474	5,513.6765
Stationary	0.3766	1.6837	1.5615	5.9200e-003		0.1040	0.1040		0.1040	0.1040	0.0000	935.6691	935.6691	0.0369	0.0000	936.5911
Waste						0.0000	0.0000		0.0000	0.0000	26.9978	0.0000	26.9978	1.5955	0.0000	66.8859
Water						0.0000	0.0000		0.0000	0.0000	2.2002	3.4720	5.6721	0.2265	5.4000e-003	12.9460
Total	3.3786	5.7263	26.7539	0.0673	6.8472	0.1845	7.0317	1.8348	0.1814	2.0162	29.1980	6,978.7507	7,007.9487	2.1666	0.2641	7,140.8276

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.8275	6.0000e-005	6.5700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0128	0.0128	3.0000e-005	0.0000	0.0136
Energy	0.0466	0.4239	0.3561	2.5400e-003		0.0322	0.0322		0.0322	0.0322	0.0000	598.8593	598.8593	0.0311	0.0112	602.9603
Mobile	2.1171	3.6187	24.8298	0.0588	6.8472	0.0482	6.8954	1.8348	0.0452	1.8799	0.0000	5,433.0592	5,433.0592	0.2753	0.2474	5,513.6765
Stationary	0.3766	1.6837	1.5615	5.9200e-003		0.1040	0.1040		0.1040	0.1040	0.0000	935.6691	935.6691	0.0369	0.0000	936.5911
Waste						0.0000	0.0000		0.0000	0.0000	13.4989	0.0000	13.4989	0.7978	0.0000	33.4430
Water						0.0000	0.0000		0.0000	0.0000	2.2002	3.4720	5.6721	0.2265	5.4000e-003	12.9460
Total	3.3678	5.7263	26.7539	0.0673	6.8472	0.1845	7.0317	1.8348	0.1814	2.0162	15.6991	6,971.0724	6,986.7715	1.3676	0.2640	7,099.6304

	ROG	NOx	CO	SO2	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	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	46.23	0.11	0.30	36.88	0.06	0.58

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

2.3 Vegetation

Vegetation

	CO2e
Category	MT
Vegetation Land Change	-146.9400
Total	-146.9400

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	7/1/2026	7/14/2026	5	10	
2	Site Preparation	Site Preparation	7/1/2026	7/21/2026	5	15	
3	Grading	Grading	7/22/2026	9/15/2026	5	40	
4	Building Construction	Building Construction	9/16/2026	12/28/2027	5	335	
5	Architectural Coating	Architectural Coating	3/23/2027	12/27/2027	5	200	
6	Paving	Paving	6/15/2027	10/18/2027	5	90	

Acres of Grading (Site Preparation Phase): 25

Acres of Grading (Grading Phase): 25

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 279,600; Non-Residential Outdoor: 93,200; Striped Parking Area: 8,748 (Architectural Coating – sqft)

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

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	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

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	6	15.00	0.00	29.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	989.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

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Building Construction	9	138.00	54.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	28.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

- Use Cleaner Engines for Construction Equipment
- Use DPF for Construction Equipment
- Use Soil Stabilizer
- Water Exposed Area
- Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2026

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					3.1500e-003	0.0000	3.1500e-003	4.8000e-004	0.0000	4.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0105	0.0960	0.0971	1.9000e-004		4.2600e-003	4.2600e-003		3.9600e-003	3.9600e-003	0.0000	16.9988	16.9988	4.7500e-003	0.0000	17.1175
Total	0.0105	0.0960	0.0971	1.9000e-004	3.1500e-003	4.2600e-003	7.4100e-003	4.8000e-004	3.9600e-003	4.4400e-003	0.0000	16.9988	16.9988	4.7500e-003	0.0000	17.1175

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3.2 Demolition - 2026

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	3.0000e-005	2.0100e-003	4.5000e-004	1.0000e-005	2.4000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.8358	0.8358	3.0000e-005	1.3000e-004	0.8759
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	2.2000e-004	1.3000e-004	1.6400e-003	0.0000	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4316	0.4316	1.0000e-005	1.0000e-005	0.4356
Total	2.5000e-004	2.1400e-003	2.0900e-003	1.0000e-005	8.3000e-004	1.0000e-005	8.5000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	1.2674	1.2674	4.0000e-005	1.4000e-004	1.3115

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					1.4200e-003	0.0000	1.4200e-003	2.1000e-004	0.0000	2.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0105	0.0960	0.0971	1.9000e-004		4.2600e-003	4.2600e-003		3.9600e-003	3.9600e-003	0.0000	16.9988	16.9988	4.7500e-003	0.0000	17.1175
Total	0.0105	0.0960	0.0971	1.9000e-004	1.4200e-003	4.2600e-003	5.6800e-003	2.1000e-004	3.9600e-003	4.1700e-003	0.0000	16.9988	16.9988	4.7500e-003	0.0000	17.1175

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3.2 Demolition - 2026

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	3.0000e-005	2.0100e-003	4.5000e-004	1.0000e-005	2.4000e-004	1.0000e-005	2.6000e-004	7.0000e-005	1.0000e-005	8.0000e-005	0.0000	0.8358	0.8358	3.0000e-005	1.3000e-004	0.8759
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	2.2000e-004	1.3000e-004	1.6400e-003	0.0000	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4316	0.4316	1.0000e-005	1.0000e-005	0.4356
Total	2.5000e-004	2.1400e-003	2.0900e-003	1.0000e-005	8.3000e-004	1.0000e-005	8.5000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	1.2674	1.2674	4.0000e-005	1.4000e-004	1.3115

3.3 Site Preparation - 2026

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					0.1488	0.0000	0.1488	0.0759	0.0000	0.0759	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0186	0.1893	0.1343	2.9000e-004		8.1500e-003	8.1500e-003		7.5000e-003	7.5000e-003	0.0000	25.1002	25.1002	8.1200e-003	0.0000	25.3032
Total	0.0186	0.1893	0.1343	2.9000e-004	0.1488	8.1500e-003	0.1569	0.0759	7.5000e-003	0.0834	0.0000	25.1002	25.1002	8.1200e-003	0.0000	25.3032

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3.3 Site Preparation - 2026

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	3.9000e-004	2.3000e-004	2.9400e-003	1.0000e-005	1.0600e-003	1.0000e-005	1.0600e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.7768	0.7768	2.0000e-005	2.0000e-005	0.7841
Total	3.9000e-004	2.3000e-004	2.9400e-003	1.0000e-005	1.0600e-003	1.0000e-005	1.0600e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.7768	0.7768	2.0000e-005	2.0000e-005	0.7841

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					0.0669	0.0000	0.0669	0.0342	0.0000	0.0342	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0186	0.1893	0.1343	2.9000e-004		8.1500e-003	8.1500e-003		7.5000e-003	7.5000e-003	0.0000	25.1002	25.1002	8.1200e-003	0.0000	25.3032
Total	0.0186	0.1893	0.1343	2.9000e-004	0.0669	8.1500e-003	0.0751	0.0342	7.5000e-003	0.0417	0.0000	25.1002	25.1002	8.1200e-003	0.0000	25.3032

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3.3 Site Preparation - 2026

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	3.9000e-004	2.3000e-004	2.9400e-003	1.0000e-005	1.0600e-003	1.0000e-005	1.0600e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.7768	0.7768	2.0000e-005	2.0000e-005	0.7841
Total	3.9000e-004	2.3000e-004	2.9400e-003	1.0000e-005	1.0600e-003	1.0000e-005	1.0600e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.7768	0.7768	2.0000e-005	2.0000e-005	0.7841

3.4 Grading - 2026

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					0.1337	0.0000	0.1337	0.0676	0.0000	0.0676	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0580	0.5589	0.5266	1.2400e-003		0.0226	0.0226		0.0208	0.0208	0.0000	109.0124	109.0124	0.0353	0.0000	109.8939
Total	0.0580	0.5589	0.5266	1.2400e-003	0.1337	0.0226	0.1563	0.0676	0.0208	0.0885	0.0000	109.0124	109.0124	0.0353	0.0000	109.8939

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3.4 Grading - 2026

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	9.8000e-004	0.0685	0.0155	2.9000e-004	8.2200e-003	4.8000e-004	8.7000e-003	2.2500e-003	4.6000e-004	2.7100e-003	0.0000	28.5035	28.5035	9.4000e-004	4.5100e-003	29.8715
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	1.1500e-003	6.9000e-004	8.7200e-003	3.0000e-005	3.1400e-003	2.0000e-005	3.1600e-003	8.4000e-004	1.0000e-005	8.5000e-004	0.0000	2.3018	2.3018	7.0000e-005	7.0000e-005	2.3231
Total	2.1300e-003	0.0692	0.0242	3.2000e-004	0.0114	5.0000e-004	0.0119	3.0900e-003	4.7000e-004	3.5600e-003	0.0000	30.8052	30.8052	1.0100e-003	4.5800e-003	32.1946

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					0.0602	0.0000	0.0602	0.0304	0.0000	0.0304	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0580	0.5589	0.5266	1.2400e-003		0.0226	0.0226		0.0208	0.0208	0.0000	109.0123	109.0123	0.0353	0.0000	109.8937
Total	0.0580	0.5589	0.5266	1.2400e-003	0.0602	0.0226	0.0828	0.0304	0.0208	0.0513	0.0000	109.0123	109.0123	0.0353	0.0000	109.8937

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

3.4 Grading - 2026

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	9.8000e-004	0.0685	0.0155	2.9000e-004	8.2200e-003	4.8000e-004	8.7000e-003	2.2500e-003	4.6000e-004	2.7100e-003	0.0000	28.5035	28.5035	9.4000e-004	4.5100e-003	29.8715
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	1.1500e-003	6.9000e-004	8.7200e-003	3.0000e-005	3.1400e-003	2.0000e-005	3.1600e-003	8.4000e-004	1.0000e-005	8.5000e-004	0.0000	2.3018	2.3018	7.0000e-005	7.0000e-005	2.3231
Total	2.1300e-003	0.0692	0.0242	3.2000e-004	0.0114	5.0000e-004	0.0119	3.0900e-003	4.7000e-004	3.5600e-003	0.0000	30.8052	30.8052	1.0100e-003	4.5800e-003	32.1946

3.5 Building Construction - 2026

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	0.0526	0.4801	0.6193	1.0400e-003		0.0203	0.0203		0.0191	0.0191	0.0000	89.2890	89.2890	0.0210	0.0000	89.8137
Total	0.0526	0.4801	0.6193	1.0400e-003		0.0203	0.0203		0.0191	0.0191	0.0000	89.2890	89.2890	0.0210	0.0000	89.8137

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

3.5 Building Construction - 2026

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	1.9100e-003	0.0886	0.0246	3.6000e-004	0.0122	4.6000e-004	0.0127	3.5300e-003	4.4000e-004	3.9700e-003	0.0000	35.4059	35.4059	7.2000e-004	5.3500e-003	37.0198
Worker	0.0153	9.1800e-003	0.1159	3.3000e-004	0.0417	2.1000e-004	0.0419	0.0111	2.0000e-004	0.0113	0.0000	30.5730	30.5730	8.9000e-004	8.8000e-004	30.8566
Total	0.0172	0.0978	0.1405	6.9000e-004	0.0539	6.7000e-004	0.0546	0.0146	6.4000e-004	0.0153	0.0000	65.9789	65.9789	1.6100e-003	6.2300e-003	67.8764

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	0.0526	0.4801	0.6193	1.0400e-003		0.0203	0.0203		0.0191	0.0191	0.0000	89.2889	89.2889	0.0210	0.0000	89.8136
Total	0.0526	0.4801	0.6193	1.0400e-003		0.0203	0.0203		0.0191	0.0191	0.0000	89.2889	89.2889	0.0210	0.0000	89.8136

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3.5 Building Construction - 2026

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	1.9100e-003	0.0886	0.0246	3.6000e-004	0.0122	4.6000e-004	0.0127	3.5300e-003	4.4000e-004	3.9700e-003	0.0000	35.4059	35.4059	7.2000e-004	5.3500e-003	37.0198
Worker	0.0153	9.1800e-003	0.1159	3.3000e-004	0.0417	2.1000e-004	0.0419	0.0111	2.0000e-004	0.0113	0.0000	30.5730	30.5730	8.9000e-004	8.8000e-004	30.8566
Total	0.0172	0.0978	0.1405	6.9000e-004	0.0539	6.7000e-004	0.0546	0.0146	6.4000e-004	0.0153	0.0000	65.9789	65.9789	1.6100e-003	6.2300e-003	67.8764

3.5 Building Construction - 2027

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	0.1764	1.6086	2.0749	3.4800e-003		0.0681	0.0681		0.0640	0.0640	0.0000	299.1761	299.1761	0.0703	0.0000	300.9343
Total	0.1764	1.6086	2.0749	3.4800e-003		0.0681	0.0681		0.0640	0.0640	0.0000	299.1761	299.1761	0.0703	0.0000	300.9343

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3.5 Building Construction - 2027

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	6.2000e-003	0.2933	0.0810	1.1900e-003	0.0409	1.5200e-003	0.0424	0.0118	1.4500e-003	0.0133	0.0000	116.2843	116.2843	2.4700e-003	0.0176	121.5860
Worker	0.0479	0.0279	0.3640	1.0800e-003	0.1397	6.7000e-004	0.1404	0.0372	6.2000e-004	0.0378	0.0000	99.4017	99.4017	2.7300e-003	2.7700e-003	100.2948
Total	0.0541	0.3212	0.4450	2.2700e-003	0.1806	2.1900e-003	0.1828	0.0490	2.0700e-003	0.0511	0.0000	215.6860	215.6860	5.2000e-003	0.0204	221.8808

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	0.1764	1.6086	2.0749	3.4800e-003		0.0681	0.0681		0.0640	0.0640	0.0000	299.1757	299.1757	0.0703	0.0000	300.9339
Total	0.1764	1.6086	2.0749	3.4800e-003		0.0681	0.0681		0.0640	0.0640	0.0000	299.1757	299.1757	0.0703	0.0000	300.9339

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3.5 Building Construction - 2027

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	6.2000e-003	0.2933	0.0810	1.1900e-003	0.0409	1.5200e-003	0.0424	0.0118	1.4500e-003	0.0133	0.0000	116.2843	116.2843	2.4700e-003	0.0176	121.5860
Worker	0.0479	0.0279	0.3640	1.0800e-003	0.1397	6.7000e-004	0.1404	0.0372	6.2000e-004	0.0378	0.0000	99.4017	99.4017	2.7300e-003	2.7700e-003	100.2948
Total	0.0541	0.3212	0.4450	2.2700e-003	0.1806	2.1900e-003	0.1828	0.0490	2.0700e-003	0.0511	0.0000	215.6860	215.6860	5.2000e-003	0.0204	221.8808

3.6 Architectural Coating - 2027

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	1.0024					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1146	0.1809	3.0000e-004		5.1500e-003	5.1500e-003		5.1500e-003	5.1500e-003	0.0000	25.5325	25.5325	1.3900e-003	0.0000	25.5674
Total	1.0195	0.1146	0.1809	3.0000e-004		5.1500e-003	5.1500e-003		5.1500e-003	5.1500e-003	0.0000	25.5325	25.5325	1.3900e-003	0.0000	25.5674

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3.6 Architectural Coating - 2027

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	7.5400e-003	4.3800e-003	0.0573	1.7000e-004	0.0220	1.1000e-004	0.0221	5.8500e-003	1.0000e-004	5.9500e-003	0.0000	15.6345	15.6345	4.3000e-004	4.4000e-004	15.7749
Total	7.5400e-003	4.3800e-003	0.0573	1.7000e-004	0.0220	1.1000e-004	0.0221	5.8500e-003	1.0000e-004	5.9500e-003	0.0000	15.6345	15.6345	4.3000e-004	4.4000e-004	15.7749

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	1.0024					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1146	0.1809	3.0000e-004		5.1500e-003	5.1500e-003		5.1500e-003	5.1500e-003	0.0000	25.5325	25.5325	1.3900e-003	0.0000	25.5673
Total	1.0195	0.1146	0.1809	3.0000e-004		5.1500e-003	5.1500e-003		5.1500e-003	5.1500e-003	0.0000	25.5325	25.5325	1.3900e-003	0.0000	25.5673

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3.6 Architectural Coating - 2027

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	7.5400e-003	4.3800e-003	0.0573	1.7000e-004	0.0220	1.1000e-004	0.0221	5.8500e-003	1.0000e-004	5.9500e-003	0.0000	15.6345	15.6345	4.3000e-004	4.4000e-004	15.7749
Total	7.5400e-003	4.3800e-003	0.0573	1.7000e-004	0.0220	1.1000e-004	0.0221	5.8500e-003	1.0000e-004	5.9500e-003	0.0000	15.6345	15.6345	4.3000e-004	4.4000e-004	15.7749

3.7 Paving - 2027

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	0.0412	0.3862	0.6560	1.0300e-003		0.0188	0.0188		0.0173	0.0173	0.0000	90.0867	90.0867	0.0291	0.0000	90.8150
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0412	0.3862	0.6560	1.0300e-003		0.0188	0.0188		0.0173	0.0173	0.0000	90.0867	90.0867	0.0291	0.0000	90.8150

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3.7 Paving - 2027

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	1.8200e-003	1.0600e-003	0.0138	4.0000e-005	5.3000e-003	3.0000e-005	5.3200e-003	1.4100e-003	2.0000e-005	1.4300e-003	0.0000	3.7690	3.7690	1.0000e-004	1.0000e-004	3.8029
Total	1.8200e-003	1.0600e-003	0.0138	4.0000e-005	5.3000e-003	3.0000e-005	5.3200e-003	1.4100e-003	2.0000e-005	1.4300e-003	0.0000	3.7690	3.7690	1.0000e-004	1.0000e-004	3.8029

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	0.0412	0.3862	0.6560	1.0300e-003		0.0188	0.0188		0.0173	0.0173	0.0000	90.0865	90.0865	0.0291	0.0000	90.8149
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0412	0.3862	0.6560	1.0300e-003		0.0188	0.0188		0.0173	0.0173	0.0000	90.0865	90.0865	0.0291	0.0000	90.8149

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3.7 Paving - 2027

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	1.8200e-003	1.0600e-003	0.0138	4.0000e-005	5.3000e-003	3.0000e-005	5.3200e-003	1.4100e-003	2.0000e-005	1.4300e-003	0.0000	3.7690	3.7690	1.0000e-004	1.0000e-004	3.8029
Total	1.8200e-003	1.0600e-003	0.0138	4.0000e-005	5.3000e-003	3.0000e-005	5.3200e-003	1.4100e-003	2.0000e-005	1.4300e-003	0.0000	3.7690	3.7690	1.0000e-004	1.0000e-004	3.8029

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.1171	3.6187	24.8298	0.0588	6.8472	0.0482	6.8954	1.8348	0.0452	1.8799	0.0000	5,433.0592	5,433.0592	0.2753	0.2474	5,513.6765
Unmitigated	2.1171	3.6187	24.8298	0.0588	6.8472	0.0482	6.8954	1.8348	0.0452	1.8799	0.0000	5,433.0592	5,433.0592	0.2753	0.2474	5,513.6765

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	1,598.00	1,638.00	1190.00	14,671,200	14,671,200
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	400.00	1,043.00	1043.00	3,767,118	3,767,118
User Defined Commercial	90.00	23.00	0.00	189,330	189,330
Total	2,088.00	2,704.00	2,233.00	18,627,649	18,627,649

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hotel	14.70	55.00	10.00	19.40	61.60	19.00	58	38	4
Parking Lot	14.70	6.60	10.00	0.00	0.00	0.00	0	0	0
Quality Restaurant	14.70	55.00	10.00	12.00	69.00	19.00	38	18	44
User Defined Commercial	14.70	6.60	6.60	37.00	10.00	53.00	80	0	20

4.4 Fleet Mix

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Annual

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hotel	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580
Parking Lot	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580
Quality Restaurant	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580
User Defined Commercial	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive 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	137.4212	137.4212	0.0222	2.6900e-003	138.7800
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	145.0995	145.0995	0.0235	2.8500e-003	146.5343
NaturalGas Mitigated	0.0466	0.4239	0.3561	2.5400e-003		0.0322	0.0322		0.0322	0.0322	0.0000	461.4381	461.4381	8.8400e-003	8.4600e-003	464.1802
NaturalGas Unmitigated	0.0466	0.4239	0.3561	2.5400e-003		0.0322	0.0322		0.0322	0.0322	0.0000	461.4381	461.4381	8.8400e-003	8.4600e-003	464.1802

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Annual

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Hotel	7.08707e+006	0.0382	0.3474	0.2918	2.0800e-003		0.0264	0.0264		0.0264	0.0264	0.0000	378.1933	378.1933	7.2500e-003	6.9300e-003	380.4407
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.03635e+006	5.5900e-003	0.0508	0.0427	3.0000e-004		3.8600e-003	3.8600e-003		3.8600e-003	3.8600e-003	0.0000	55.3036	55.3036	1.0600e-003	1.0100e-003	55.6322
User Defined Commercial	523600	2.8200e-003	0.0257	0.0216	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	27.9413	27.9413	5.4000e-004	5.1000e-004	28.1073
Total		0.0466	0.4239	0.3561	2.5300e-003		0.0322	0.0322		0.0322	0.0322	0.0000	461.4381	461.4381	8.8500e-003	8.4500e-003	464.1802

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Annual

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Hotel	7.08707e+006	0.0382	0.3474	0.2918	2.0800e-003		0.0264	0.0264		0.0264	0.0264	0.0000	378.1933	378.1933	7.2500e-003	6.9300e-003	380.4407
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.03635e+006	5.5900e-003	0.0508	0.0427	3.0000e-004		3.8600e-003	3.8600e-003		3.8600e-003	3.8600e-003	0.0000	55.3036	55.3036	1.0600e-003	1.0100e-003	55.6322
User Defined Commercial	523600	2.8200e-003	0.0257	0.0216	1.5000e-004		1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003	0.0000	27.9413	27.9413	5.4000e-004	5.1000e-004	28.1073
Total		0.0466	0.4239	0.3561	2.5300e-003		0.0322	0.0322		0.0322	0.0322	0.0000	461.4381	461.4381	8.8500e-003	8.4500e-003	464.1802

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	1.19436e+006	110.5067	0.0179	2.1700e-003	111.5994
Parking Lot	51030	4.7215	7.6000e-004	9.0000e-005	4.7682
Quality Restaurant	160850	14.8825	2.4100e-003	2.9000e-004	15.0296
User Defined Commercial	162000	14.9889	2.4200e-003	2.9000e-004	15.1371
Total		145.0995	0.0235	2.8400e-003	146.5343

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

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hotel	1.13367e+006	104.8918	0.0170	2.0600e-003	105.9290
Parking Lot	42865.2	3.9661	6.4000e-004	8.0000e-005	4.0053
Quality Restaurant	156570	14.4865	2.3400e-003	2.8000e-004	14.6297
User Defined Commercial	152144	14.0769	2.2800e-003	2.8000e-004	14.2161
Total		137.4212	0.0222	2.7000e-003	138.7800

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.8275	6.0000e-005	6.5700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0128	0.0128	3.0000e-005	0.0000	0.0136
Unmitigated	0.8383	6.0000e-005	6.5700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0128	0.0128	3.0000e-005	0.0000	0.0136

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1002					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7374					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.1000e-004	6.0000e-005	6.5700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0128	0.0128	3.0000e-005	0.0000	0.0136
Total	0.8383	6.0000e-005	6.5700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0128	0.0128	3.0000e-005	0.0000	0.0136

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0894					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7374					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.1000e-004	6.0000e-005	6.5700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0128	0.0128	3.0000e-005	0.0000	0.0136
Total	0.8275	6.0000e-005	6.5700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0128	0.0128	3.0000e-005	0.0000	0.0136

7.0 Water Detail

7.1 Mitigation Measures Water

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	5.6721	0.2265	5.4000e-003	12.9460
Unmitigated	5.6721	0.2265	5.4000e-003	12.9460

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	6.935 / 0	5.6721	0.2265	5.4000e-003	12.9460
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Commercial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		5.6721	0.2265	5.4000e-003	12.9460

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	6.935 / 0	5.6721	0.2265	5.4000e-003	12.9460
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Commercial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		5.6721	0.2265	5.4000e-003	12.9460

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	13.4989	0.7978	0.0000	33.4430
Unmitigated	26.9978	1.5955	0.0000	66.8859

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	133	26.9978	1.5955	0.0000	66.8859
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000
User Defined Commercial	0	0.0000	0.0000	0.0000	0.0000
Total		26.9978	1.5955	0.0000	66.8859

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

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	66.5	13.4989	0.7978	0.0000	33.4430
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000
User Defined Commercial	0	0.0000	0.0000	0.0000	0.0000
Total		13.4989	0.7978	0.0000	33.4430

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
Emergency Generator	2	0	84	2447	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	2	20	7300	0.5	CNG

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

User Defined Equipment

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

10.1 Stationary Sources

Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Boiler - CNG (0 - 2 MMBTU)	0.0394	0.1752	0.7014	4.2900e-003		0.0544	0.0544		0.0544	0.0544	0.0000	779.1249	779.1249	0.0149	0.0000	779.4982
Emergency Generator - Diesel (750 - 9999 HP)	0.3373	1.5085	0.8601	1.6200e-003		0.0496	0.0496		0.0496	0.0496	0.0000	156.5442	156.5442	0.0220	0.0000	157.0929
Total	0.3766	1.6837	1.5615	5.9100e-003		0.1040	0.1040		0.1040	0.1040	0.0000	935.6691	935.6691	0.0369	0.0000	936.5911

11.0 Vegetation

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Annual

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

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	-146.9400	0.0000	0.0000	-146.9400

11.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Cropland	61.7 / 38	-146.9400	0.0000	0.0000	-146.9400
Total		-146.9400	0.0000	0.0000	-146.9400

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Summer

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

Koi Nation Shiloh Resort and Casino - Alternative C

Sonoma-San Francisco County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Commercial	20.00	User Defined Unit	0.00	20,000.00	0
Parking Lot	492.00	Space	0.00	145,800.00	0
Hotel	200.00	Room	0.00	161,400.00	0
Quality Restaurant	5.00	1000sqft	25.00	5,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	75
Climate Zone	4			Operational Year	2028
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See input tables for assumptions.

Construction Phase - See input tables for assumptions.

Demolition -

Grading - See input tables for assumptions.

Vehicle Trips - See input tables for assumptions.

Energy Use - See input tables for assumptions.

Water And Wastewater - See input tables for assumptions.

Solid Waste - See input tables for assumptions.

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Summer

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

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	200.00
tblConstructionPhase	NumDays	370.00	335.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	35.00	40.00
tblConstructionPhase	NumDays	20.00	90.00
tblConstructionPhase	NumDays	10.00	15.00
tblEnergyUse	LightingElect	0.00	3.08
tblEnergyUse	NT24E	0.00	3.70
tblEnergyUse	NT24NG	0.00	6.67
tblEnergyUse	T24E	0.00	1.32
tblEnergyUse	T24NG	0.00	19.51
tblGrading	AcresOfGrading	120.00	25.00
tblGrading	AcresOfGrading	22.50	25.00
tblGrading	MaterialImported	0.00	10,000.00
tblLandUse	LandUseSquareFeet	0.00	20,000.00
tblLandUse	LandUseSquareFeet	196,800.00	145,800.00
tblLandUse	LandUseSquareFeet	290,400.00	161,400.00
tblLandUse	LotAcreage	4.43	0.00
tblLandUse	LotAcreage	6.67	0.00
tblLandUse	LotAcreage	0.11	25.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	109.50	133.00
tblSolidWaste	SolidWasteGenerationRate	4.56	0.00
tblStationaryBoilersUse	AnnualHeatInput	0.00	7,300.00
tblStationaryBoilersUse	BoilerRatingValue	0.00	0.50
tblStationaryBoilersUse	DailyHeatInput	0.00	20.00

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Summer

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

tblStationaryBoilersUse	NumberOfEquipment	0.00	2.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	2,447.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	84.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	2.00
tblVehicleTrips	CC_TL	6.60	55.00
tblVehicleTrips	CC_TL	6.60	55.00
tblVehicleTrips	CC_TTP	0.00	10.00
tblVehicleTrips	CNW_TL	6.60	10.00
tblVehicleTrips	CNW_TL	6.60	10.00
tblVehicleTrips	CNW_TL	6.60	10.00
tblVehicleTrips	CNW_TTP	0.00	53.00
tblVehicleTrips	CW_TTP	0.00	37.00
tblVehicleTrips	PB_TP	0.00	20.00
tblVehicleTrips	PR_TP	0.00	80.00
tblVehicleTrips	ST_TR	90.04	208.60
tblVehicleTrips	ST_TR	0.00	1.15
tblVehicleTrips	SU_TR	71.97	208.60
tblVehicleTrips	WD_TR	8.36	7.99
tblVehicleTrips	WD_TR	83.84	80.00
tblVehicleTrips	WD_TR	0.00	4.50
tblWater	IndoorWaterUseRate	5,073,354.00	6,935,000.00
tblWater	IndoorWaterUseRate	1,517,668.56	0.00
tblWater	OutdoorWaterUseRate	563,706.00	0.00
tblWater	OutdoorWaterUseRate	96,872.46	0.00

2.0 Emissions Summary

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2026	4.6697	44.8698	38.1833	0.0808	20.7850	1.9437	22.7287	10.3025	1.7957	12.0983	0.0000	7,842.172 2	7,842.172 2	2.2514	0.2519	7,908.799 8
2027	13.0322	24.6513	37.0073	0.0736	1.8160	1.0162	2.8321	0.4890	0.9503	1.4393	0.0000	7,215.312 7	7,215.312 7	1.3798	0.1788	7,303.091 5
Maximum	13.0322	44.8698	38.1833	0.0808	20.7850	1.9437	22.7287	10.3025	1.7957	12.0983	0.0000	7,842.172 2	7,842.172 2	2.2514	0.2519	7,908.799 8

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					
2026	4.6697	44.8698	38.1833	0.0808	9.5300	1.9437	11.4736	4.6832	1.7957	6.4790	0.0000	7,842.172 2	7,842.172 2	2.2514	0.2519	7,908.799 8
2027	13.0322	24.6513	37.0073	0.0736	1.8160	1.0162	2.8321	0.4890	0.9503	1.4393	0.0000	7,215.312 7	7,215.312 7	1.3798	0.1788	7,303.091 5
Maximum	13.0322	44.8698	38.1833	0.0808	9.5300	1.9437	11.4736	4.6832	1.7957	6.4790	0.0000	7,842.172 2	7,842.172 2	2.2514	0.2519	7,908.799 8

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	49.80	0.00	44.03	52.07	0.00	41.51	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.5966	6.6000e-004	0.0730	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1569	0.1569	4.1000e-004		0.1671
Energy	0.2555	2.3226	1.9510	0.0139		0.1765	0.1765		0.1765	0.1765		2,787.1149	2,787.1149	0.0534	0.0511	2,803.6773
Mobile	14.7236	22.5300	169.3810	0.4086	47.6126	0.3212	47.9338	12.7108	0.3010	13.0118		41,601.2674	41,601.2674	1.9743	1.7491	42,171.8645
Stationary	0.2157	0.9600	3.8432	0.0235		0.2980	0.2980		0.2980	0.2980		4,705.9628	4,705.9628	0.0902		4,708.2177
Total	19.7914	25.8133	175.2482	0.4461	47.6126	0.7960	48.4086	12.7108	0.7758	13.4866		49,094.5020	49,094.5020	2.1184	1.8002	49,683.9266

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Summer

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.5374	6.6000e-004	0.0730	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1569	0.1569	4.1000e-004		0.1671
Energy	0.2555	2.3226	1.9510	0.0139		0.1765	0.1765		0.1765	0.1765		2,787.1149	2,787.1149	0.0534	0.0511	2,803.6773
Mobile	14.7236	22.5300	169.3810	0.4086	47.6126	0.3212	47.9338	12.7108	0.3010	13.0118		41,601.2674	41,601.2674	1.9743	1.7491	42,171.8645
Stationary	0.2157	0.9600	3.8432	0.0235		0.2980	0.2980		0.2980	0.2980		4,705.9628	4,705.9628	0.0902		4,708.2177
Total	19.7322	25.8133	175.2482	0.4461	47.6126	0.7960	48.4086	12.7108	0.7758	13.4866		49,094.5020	49,094.5020	2.1184	1.8002	49,683.9266

	ROG	NOx	CO	SO2	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	0.30	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	7/1/2026	7/14/2026	5	10	
2	Site Preparation	Site Preparation	7/1/2026	7/21/2026	5	15	
3	Grading	Grading	7/22/2026	9/15/2026	5	40	
4	Building Construction	Building Construction	9/16/2026	12/28/2027	5	335	

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Summer

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

5	Architectural Coating	Architectural Coating	3/23/2027	12/27/2027	5	200
6	Paving	Paving	6/15/2027	10/18/2027	5	90

Acres of Grading (Site Preparation Phase): 25

Acres of Grading (Grading Phase): 25

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 279,600; Non-Residential Outdoor: 93,200; Striped Parking Area: 8,748 (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	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Summer

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

Paving	Rollers	2	8.00	80	0.38
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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	6	15.00	0.00	29.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	989.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	138.00	54.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	28.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Summer

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

3.2 Demolition - 2026

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					0.6300	0.0000	0.6300	0.0954	0.0000	0.0954			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606
Total	2.0926	19.1966	19.4184	0.0388	0.6300	0.8528	1.4828	0.0954	0.7920	0.8874		3,747.5996	3,747.5996	1.0464		3,773.7606

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	5.9000e-003	0.3886	0.0906	1.6900e-003	0.0502	2.8100e-003	0.0530	0.0137	2.6900e-003	0.0164		184.2031	184.2031	6.0900e-003	0.0292	193.0432
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	0.0448	0.0231	0.3466	9.9000e-004	0.1232	6.0000e-004	0.1238	0.0327	5.6000e-004	0.0332		100.5754	100.5754	2.6100e-003	2.5200e-003	101.3927
Total	0.0507	0.4117	0.4372	2.6800e-003	0.1734	3.4100e-003	0.1768	0.0464	3.2500e-003	0.0496		284.7785	284.7785	8.7000e-003	0.0317	294.4359

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Summer

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

3.2 Demolition - 2026

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					0.2835	0.0000	0.2835	0.0429	0.0000	0.0429			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
Total	2.0926	19.1966	19.4184	0.0388	0.2835	0.8528	1.1363	0.0429	0.7920	0.8349	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606

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	5.9000e-003	0.3886	0.0906	1.6900e-003	0.0502	2.8100e-003	0.0530	0.0137	2.6900e-003	0.0164		184.2031	184.2031	6.0900e-003	0.0292	193.0432
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	0.0448	0.0231	0.3466	9.9000e-004	0.1232	6.0000e-004	0.1238	0.0327	5.6000e-004	0.0332		100.5754	100.5754	2.6100e-003	2.5200e-003	101.3927
Total	0.0507	0.4117	0.4372	2.6800e-003	0.1734	3.4100e-003	0.1768	0.0464	3.2500e-003	0.0496		284.7785	284.7785	8.7000e-003	0.0317	294.4359

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Summer

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

3.3 Site Preparation - 2026

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					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	19.8338	1.0868	20.9206	10.1215	0.9999	11.1214		3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0537	0.0277	0.4159	1.1900e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		120.6904	120.6904	3.1300e-003	3.0300e-003	121.6713
Total	0.0537	0.0277	0.4159	1.1900e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		120.6904	120.6904	3.1300e-003	3.0300e-003	121.6713

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Summer

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

3.3 Site Preparation - 2026

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					8.9252	0.0000	8.9252	4.5547	0.0000	4.5547			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	8.9252	1.0868	10.0120	4.5547	0.9999	5.5545	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0537	0.0277	0.4159	1.1900e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		120.6904	120.6904	3.1300e-003	3.0300e-003	121.6713
Total	0.0537	0.0277	0.4159	1.1900e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		120.6904	120.6904	3.1300e-003	3.0300e-003	121.6713

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Summer

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

3.4 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6849	0.0000	6.6849	3.3818	0.0000	3.3818			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	2.9012	27.9429	26.3311	0.0621	6.6849	1.1309	7.8158	3.3818	1.0404	4.4222		6,008.281 4	6,008.281 4	1.9432		6,056.861 4

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0503	3.3129	0.7725	0.0144	0.4279	0.0240	0.4518	0.1169	0.0229	0.1398		1,570.490 2	1,570.490 2	0.0519	0.2486	1,645.859 9
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	0.0597	0.0308	0.4621	1.3300e-003	0.1643	8.1000e-004	0.1651	0.0436	7.4000e-004	0.0443		134.1005	134.1005	3.4800e-003	3.3700e-003	135.1903
Total	0.1100	3.3437	1.2346	0.0158	0.5922	0.0248	0.6169	0.1605	0.0237	0.1841		1,704.590 7	1,704.590 7	0.0554	0.2519	1,781.050 2

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Summer

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

3.4 Grading - 2026

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					3.0082	0.0000	3.0082	1.5218	0.0000	1.5218			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	2.9012	27.9429	26.3311	0.0621	3.0082	1.1309	4.1391	1.5218	1.0404	2.5622	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0503	3.3129	0.7725	0.0144	0.4279	0.0240	0.4518	0.1169	0.0229	0.1398		1,570.490 2	1,570.490 2	0.0519	0.2486	1,645.859 9
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	0.0597	0.0308	0.4621	1.3300e-003	0.1643	8.1000e-004	0.1651	0.0436	7.4000e-004	0.0443		134.1005	134.1005	3.4800e-003	3.3700e-003	135.1903
Total	0.1100	3.3437	1.2346	0.0158	0.5922	0.0248	0.6169	0.1605	0.0237	0.1841		1,704.590 7	1,704.590 7	0.0554	0.2519	1,781.050 2

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Summer

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

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0505	2.2297	0.6302	9.4400e-003	0.3291	0.0120	0.3411	0.0946	0.0114	0.1061		1,013.159 2	1,013.159 2	0.0208	0.1532	1,059.323 1
Worker	0.4119	0.2124	3.1885	9.1500e-003	1.1336	5.5600e-003	1.1392	0.3007	5.1200e-003	0.3058		925.2932	925.2932	0.0240	0.0232	932.8131
Total	0.4623	2.4420	3.8187	0.0186	1.4628	0.0175	1.4803	0.3953	0.0166	0.4119		1,938.452 4	1,938.452 4	0.0448	0.1764	1,992.136 1

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Summer

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

3.5 Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 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	0.0000	0.0000	0.0000	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	0.0505	2.2297	0.6302	9.4400e-003	0.3291	0.0120	0.3411	0.0946	0.0114	0.1061		1,013.159 2	1,013.159 2	0.0208	0.1532	1,059.323 1
Worker	0.4119	0.2124	3.1885	9.1500e-003	1.1336	5.5600e-003	1.1392	0.3007	5.1200e-003	0.3058		925.2932	925.2932	0.0240	0.0232	932.8131
Total	0.4623	2.4420	3.8187	0.0186	1.4628	0.0175	1.4803	0.3953	0.0166	0.4119		1,938.452 4	1,938.452 4	0.0448	0.1764	1,992.136 1

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Summer

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

3.5 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0490	2.2023	0.6194	9.2500e-003	0.3291	0.0118	0.3409	0.0946	0.0112	0.1059		993.0872	993.0872	0.0212	0.1501	1,038.347 6
Worker	0.3859	0.1923	2.9858	8.8800e-003	1.1336	5.2000e-003	1.1388	0.3007	4.7900e-003	0.3055		897.8067	897.8067	0.0218	0.0219	904.8730
Total	0.4348	2.3946	3.6052	0.0181	1.4627	0.0170	1.4797	0.3953	0.0160	0.4114		1,890.893 8	1,890.893 8	0.0430	0.1720	1,943.220 6

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Summer

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

3.5 Building Construction - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 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	0.0000	0.0000	0.0000	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	0.0490	2.2023	0.6194	9.2500e-003	0.3291	0.0118	0.3409	0.0946	0.0112	0.1059		993.0872	993.0872	0.0212	0.1501	1,038.347 6
Worker	0.3859	0.1923	2.9858	8.8800e-003	1.1336	5.2000e-003	1.1388	0.3007	4.7900e-003	0.3055		897.8067	897.8067	0.0218	0.0219	904.8730
Total	0.4348	2.3946	3.6052	0.0181	1.4627	0.0170	1.4797	0.3953	0.0160	0.4114		1,890.893 8	1,890.893 8	0.0430	0.1720	1,943.220 6

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Summer

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

3.6 Architectural Coating - 2027

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	10.0237					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	10.1946	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.0783	0.0390	0.6058	1.8000e-003	0.2300	1.0500e-003	0.2311	0.0610	9.7000e-004	0.0620		182.1637	182.1637	4.4300e-003	4.4400e-003	183.5974
Total	0.0783	0.0390	0.6058	1.8000e-003	0.2300	1.0500e-003	0.2311	0.0610	9.7000e-004	0.0620		182.1637	182.1637	4.4300e-003	4.4400e-003	183.5974

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

3.6 Architectural Coating - 2027

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	10.0237					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	10.1946	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.0783	0.0390	0.6058	1.8000e-003	0.2300	1.0500e-003	0.2311	0.0610	9.7000e-004	0.0620		182.1637	182.1637	4.4300e-003	4.4400e-003	183.5974
Total	0.0783	0.0390	0.6058	1.8000e-003	0.2300	1.0500e-003	0.2311	0.0610	9.7000e-004	0.0620		182.1637	182.1637	4.4300e-003	4.4400e-003	183.5974

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Summer

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

3.7 Paving - 2027

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0419	0.0209	0.3246	9.7000e-004	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		97.5877	97.5877	2.3700e-003	2.3800e-003	98.3558
Total	0.0419	0.0209	0.3246	9.7000e-004	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		97.5877	97.5877	2.3700e-003	2.3800e-003	98.3558

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Summer

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

3.7 Paving - 2027

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0419	0.0209	0.3246	9.7000e-004	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		97.5877	97.5877	2.3700e-003	2.3800e-003	98.3558
Total	0.0419	0.0209	0.3246	9.7000e-004	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		97.5877	97.5877	2.3700e-003	2.3800e-003	98.3558

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	14.7236	22.5300	169.3810	0.4086	47.6126	0.3212	47.9338	12.7108	0.3010	13.0118		41,601.2674	41,601.2674	1.9743	1.7491	42,171.8645
Unmitigated	14.7236	22.5300	169.3810	0.4086	47.6126	0.3212	47.9338	12.7108	0.3010	13.0118		41,601.2674	41,601.2674	1.9743	1.7491	42,171.8645

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	1,598.00	1,638.00	1190.00	14,671,200	14,671,200
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	400.00	1,043.00	1043.00	3,767,118	3,767,118
User Defined Commercial	90.00	23.00	0.00	189,330	189,330
Total	2,088.00	2,704.00	2,233.00	18,627,649	18,627,649

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hotel	14.70	55.00	10.00	19.40	61.60	19.00	58	38	4
Parking Lot	14.70	6.60	10.00	0.00	0.00	0.00	0	0	0
Quality Restaurant	14.70	55.00	10.00	12.00	69.00	19.00	38	18	44

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

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Commercial	14.70	6.60	6.60	37.00	10.00	53.00	80	0	20

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hotel	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580
Parking Lot	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580
Quality Restaurant	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580
User Defined Commercial	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.2555	2.3226	1.9510	0.0139		0.1765	0.1765		0.1765	0.1765		2,787.1149	2,787.1149	0.0534	0.0511	2,803.6773
NaturalGas Unmitigated	0.2555	2.3226	1.9510	0.0139		0.1765	0.1765		0.1765	0.1765		2,787.1149	2,787.1149	0.0534	0.0511	2,803.6773

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Hotel	19416.6	0.2094	1.9036	1.5990	0.0114		0.1447	0.1447		0.1447	0.1447		2,284.3107	2,284.3107	0.0438	0.0419	2,297.8852
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	2839.32	0.0306	0.2784	0.2338	1.6700e-003		0.0212	0.0212		0.0212	0.0212		334.0371	334.0371	6.4000e-003	6.1200e-003	336.0221
User Defined Commercial	1434.52	0.0155	0.1406	0.1181	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.7671	168.7671	3.2300e-003	3.0900e-003	169.7700
Total		0.2555	2.3226	1.9510	0.0139		0.1765	0.1765		0.1765	0.1765		2,787.1149	2,787.1149	0.0534	0.0511	2,803.6773

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Summer

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Hotel	19.4166	0.2094	1.9036	1.5990	0.0114		0.1447	0.1447		0.1447	0.1447		2,284.3107	2,284.3107	0.0438	0.0419	2,297.8852
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	2.83932	0.0306	0.2784	0.2338	1.6700e-003		0.0212	0.0212		0.0212	0.0212		334.0371	334.0371	6.4000e-003	6.1200e-003	336.0221
User Defined Commercial	1.43452	0.0155	0.1406	0.1181	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.7671	168.7671	3.2300e-003	3.0900e-003	169.7700
Total		0.2555	2.3226	1.9510	0.0139		0.1765	0.1765		0.1765	0.1765		2,787.1149	2,787.1149	0.0534	0.0511	2,803.6773

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.5374	6.6000e-004	0.0730	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1569	0.1569	4.1000e-004		0.1671
Unmitigated	4.5966	6.6000e-004	0.0730	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1569	0.1569	4.1000e-004		0.1671

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	0.5492					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.0406					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.7200e-003	6.6000e-004	0.0730	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1569	0.1569	4.1000e-004		0.1671
Total	4.5966	6.6000e-004	0.0730	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1569	0.1569	4.1000e-004		0.1671

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4901					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.0406					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.7200e-003	6.6000e-004	0.0730	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1569	0.1569	4.1000e-004		0.1671
Total	4.5374	6.6000e-004	0.0730	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1569	0.1569	4.1000e-004		0.1671

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Summer

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

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	2	0	84	2447	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	2	20	7300	0.5	CNG

User Defined Equipment

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

10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Boiler - CNG (0 - 2 MMBTU)	0.2157	0.9600	3.8432	0.0235		0.2980	0.2980		0.2980	0.2980		4,705.9628	4,705.9628	0.0902		4,708.2177
Emergency Generator - Diesel (750 - 9999 HP)	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	0.2157	0.9600	3.8432	0.0235		0.2980	0.2980		0.2980	0.2980		4,705.9628	4,705.9628	0.0902		4,708.2177

11.0 Vegetation

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Winter

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

Koi Nation Shiloh Resort and Casino - Alternative C

Sonoma-San Francisco County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Commercial	20.00	User Defined Unit	0.00	20,000.00	0
Parking Lot	492.00	Space	0.00	145,800.00	0
Hotel	200.00	Room	0.00	161,400.00	0
Quality Restaurant	5.00	1000sqft	25.00	5,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	75
Climate Zone	4			Operational Year	2028
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See input tables for assumptions.

Construction Phase - See input tables for assumptions.

Demolition -

Grading - See input tables for assumptions.

Vehicle Trips - See input tables for assumptions.

Energy Use - See input tables for assumptions.

Water And Wastewater - See input tables for assumptions.

Solid Waste - See input tables for assumptions.

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Winter

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

tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	20.00	200.00
tblConstructionPhase	NumDays	370.00	335.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	35.00	40.00
tblConstructionPhase	NumDays	20.00	90.00
tblConstructionPhase	NumDays	10.00	15.00
tblEnergyUse	LightingElect	0.00	3.08
tblEnergyUse	NT24E	0.00	3.70
tblEnergyUse	NT24NG	0.00	6.67
tblEnergyUse	T24E	0.00	1.32
tblEnergyUse	T24NG	0.00	19.51
tblGrading	AcresOfGrading	120.00	25.00
tblGrading	AcresOfGrading	22.50	25.00
tblGrading	MaterialImported	0.00	10,000.00
tblLandUse	LandUseSquareFeet	0.00	20,000.00
tblLandUse	LandUseSquareFeet	196,800.00	145,800.00
tblLandUse	LandUseSquareFeet	290,400.00	161,400.00
tblLandUse	LotAcreage	4.43	0.00
tblLandUse	LotAcreage	6.67	0.00
tblLandUse	LotAcreage	0.11	25.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	109.50	133.00
tblSolidWaste	SolidWasteGenerationRate	4.56	0.00
tblStationaryBoilersUse	AnnualHeatInput	0.00	7,300.00
tblStationaryBoilersUse	BoilerRatingValue	0.00	0.50
tblStationaryBoilersUse	DailyHeatInput	0.00	20.00

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Winter

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

tblStationaryBoilersUse	NumberOfEquipment	0.00	2.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	2,447.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	84.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	2.00
tblVehicleTrips	CC_TL	6.60	55.00
tblVehicleTrips	CC_TL	6.60	55.00
tblVehicleTrips	CC_TTP	0.00	10.00
tblVehicleTrips	CNW_TL	6.60	10.00
tblVehicleTrips	CNW_TL	6.60	10.00
tblVehicleTrips	CNW_TL	6.60	10.00
tblVehicleTrips	CNW_TTP	0.00	53.00
tblVehicleTrips	CW_TTP	0.00	37.00
tblVehicleTrips	PB_TP	0.00	20.00
tblVehicleTrips	PR_TP	0.00	80.00
tblVehicleTrips	ST_TR	90.04	208.60
tblVehicleTrips	ST_TR	0.00	1.15
tblVehicleTrips	SU_TR	71.97	208.60
tblVehicleTrips	WD_TR	8.36	7.99
tblVehicleTrips	WD_TR	83.84	80.00
tblVehicleTrips	WD_TR	0.00	4.50
tblWater	IndoorWaterUseRate	5,073,354.00	6,935,000.00
tblWater	IndoorWaterUseRate	1,517,668.56	0.00
tblWater	OutdoorWaterUseRate	563,706.00	0.00
tblWater	OutdoorWaterUseRate	96,872.46	0.00

2.0 Emissions Summary

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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					
2026	4.6740	44.9030	38.1622	0.0807	20.7850	1.9437	22.7287	10.3025	1.7957	12.0983	0.0000	7,828.3554	7,828.3554	2.2522	0.2527	7,895.2619
2027	13.0553	24.8304	36.9232	0.0729	1.8160	1.0162	2.8322	0.4890	0.9504	1.4394	0.0000	7,142.4667	7,142.4667	1.3836	0.1835	7,231.7368
Maximum	13.0553	44.9030	38.1622	0.0807	20.7850	1.9437	22.7287	10.3025	1.7957	12.0983	0.0000	7,828.3554	7,828.3554	2.2522	0.2527	7,895.2619

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					
2026	4.6740	44.9030	38.1622	0.0807	9.5300	1.9437	11.4737	4.6832	1.7957	6.4790	0.0000	7,828.3554	7,828.3554	2.2522	0.2527	7,895.2619
2027	13.0553	24.8304	36.9232	0.0729	1.8160	1.0162	2.8322	0.4890	0.9504	1.4394	0.0000	7,142.4667	7,142.4667	1.3836	0.1835	7,231.7368
Maximum	13.0553	44.9030	38.1622	0.0807	9.5300	1.9437	11.4737	4.6832	1.7957	6.4790	0.0000	7,828.3554	7,828.3554	2.2522	0.2527	7,895.2619

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	49.80	0.00	44.03	52.07	0.00	41.51	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.5966	6.6000e-004	0.0730	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1569	0.1569	4.1000e-004		0.1671
Energy	0.2555	2.3226	1.9510	0.0139		0.1765	0.1765		0.1765	0.1765		2,787.1149	2,787.1149	0.0534	0.0511	2,803.6773
Mobile	14.4519	25.3566	173.3931	0.3887	47.6126	0.3212	47.9338	12.7108	0.3010	13.0118		39,583.8096	39,583.8096	2.1018	1.8808	40,196.8384
Stationary	0.2157	0.9600	3.8432	0.0235		0.2980	0.2980		0.2980	0.2980		4,705.9628	4,705.9628	0.0902		4,708.2177
Total	19.5196	28.6399	179.2603	0.4261	47.6126	0.7960	48.4087	12.7108	0.7758	13.4866		47,077.0442	47,077.0442	2.2459	1.9319	47,708.9006

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Winter

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	4.5374	6.6000e-004	0.0730	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1569	0.1569	4.1000e-004		0.1671
Energy	0.2555	2.3226	1.9510	0.0139		0.1765	0.1765		0.1765	0.1765		2,787.1149	2,787.1149	0.0534	0.0511	2,803.6773
Mobile	14.4519	25.3566	173.3931	0.3887	47.6126	0.3212	47.9338	12.7108	0.3010	13.0118		39,583.8096	39,583.8096	2.1018	1.8808	40,196.8384
Stationary	0.2157	0.9600	3.8432	0.0235		0.2980	0.2980		0.2980	0.2980		4,705.9628	4,705.9628	0.0902		4,708.2177
Total	19.4605	28.6399	179.2603	0.4261	47.6126	0.7960	48.4087	12.7108	0.7758	13.4866		47,077.0442	47,077.0442	2.2459	1.9319	47,708.9006

	ROG	NOx	CO	SO2	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	0.30	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	7/1/2026	7/14/2026	5	10	
2	Site Preparation	Site Preparation	7/1/2026	7/21/2026	5	15	
3	Grading	Grading	7/22/2026	9/15/2026	5	40	
4	Building Construction	Building Construction	9/16/2026	12/28/2027	5	335	

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

5	Architectural Coating	Architectural Coating	3/23/2027	12/27/2027	5	200
6	Paving	Paving	6/15/2027	10/18/2027	5	90

Acres of Grading (Site Preparation Phase): 25

Acres of Grading (Grading Phase): 25

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 279,600; Non-Residential Outdoor: 93,200; Striped Parking Area: 8,748 (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	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Winter

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

Paving	Rollers	2	8.00	80	0.38
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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	6	15.00	0.00	29.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	989.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	138.00	54.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	28.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Use DPF for Construction Equipment

Use Soil Stabilizer

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Winter

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

3.2 Demolition - 2026

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					0.6300	0.0000	0.6300	0.0954	0.0000	0.0954			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920		3,747.5996	3,747.5996	1.0464		3,773.7606
Total	2.0926	19.1966	19.4184	0.0388	0.6300	0.8528	1.4828	0.0954	0.7920	0.8874		3,747.5996	3,747.5996	1.0464		3,773.7606

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	5.5700e-003	0.4098	0.0913	1.6900e-003	0.0502	2.8100e-003	0.0530	0.0137	2.6900e-003	0.0164		184.3419	184.3419	6.0700e-003	0.0292	193.1893
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	0.0469	0.0285	0.3367	9.3000e-004	0.1232	6.0000e-004	0.1238	0.0327	5.6000e-004	0.0332		94.2319	94.2319	2.9600e-003	2.9100e-003	95.1727
Total	0.0524	0.4383	0.4280	2.6200e-003	0.1734	3.4100e-003	0.1768	0.0464	3.2500e-003	0.0496		278.5738	278.5738	9.0300e-003	0.0321	288.3620

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Winter

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

3.2 Demolition - 2026

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					0.2835	0.0000	0.2835	0.0429	0.0000	0.0429			0.0000			0.0000
Off-Road	2.0926	19.1966	19.4184	0.0388		0.8528	0.8528		0.7920	0.7920	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
Total	2.0926	19.1966	19.4184	0.0388	0.2835	0.8528	1.1363	0.0429	0.7920	0.8349	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606

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	5.5700e-003	0.4098	0.0913	1.6900e-003	0.0502	2.8100e-003	0.0530	0.0137	2.6900e-003	0.0164		184.3419	184.3419	6.0700e-003	0.0292	193.1893
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	0.0469	0.0285	0.3367	9.3000e-004	0.1232	6.0000e-004	0.1238	0.0327	5.6000e-004	0.0332		94.2319	94.2319	2.9600e-003	2.9100e-003	95.1727
Total	0.0524	0.4383	0.4280	2.6200e-003	0.1734	3.4100e-003	0.1768	0.0464	3.2500e-003	0.0496		278.5738	278.5738	9.0300e-003	0.0321	288.3620

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Winter

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

3.3 Site Preparation - 2026

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					19.8338	0.0000	19.8338	10.1215	0.0000	10.1215			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999		3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	19.8338	1.0868	20.9206	10.1215	0.9999	11.1214		3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0562	0.0342	0.4040	1.1200e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		113.0783	113.0783	3.5500e-003	3.4900e-003	114.2073
Total	0.0562	0.0342	0.4040	1.1200e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		113.0783	113.0783	3.5500e-003	3.4900e-003	114.2073

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Winter

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

3.3 Site Preparation - 2026

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					8.9252	0.0000	8.9252	4.5547	0.0000	4.5547			0.0000			0.0000
Off-Road	2.4727	25.2339	17.9118	0.0381		1.0868	1.0868		0.9999	0.9999	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	2.4727	25.2339	17.9118	0.0381	8.9252	1.0868	10.0120	4.5547	0.9999	5.5545	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320

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	0.0562	0.0342	0.4040	1.1200e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		113.0783	113.0783	3.5500e-003	3.4900e-003	114.2073
Total	0.0562	0.0342	0.4040	1.1200e-003	0.1479	7.3000e-004	0.1486	0.0392	6.7000e-004	0.0399		113.0783	113.0783	3.5500e-003	3.4900e-003	114.2073

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Winter

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

3.4 Grading - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.6849	0.0000	6.6849	3.3818	0.0000	3.3818			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404		6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	2.9012	27.9429	26.3311	0.0621	6.6849	1.1309	7.8158	3.3818	1.0404	4.4222		6,008.281 4	6,008.281 4	1.9432		6,056.861 4

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0475	3.4938	0.7786	0.0144	0.4279	0.0240	0.4519	0.1169	0.0230	0.1398		1,571.673 7	1,571.673 7	0.0518	0.2488	1,647.105 5
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	0.0625	0.0380	0.4489	1.2400e-003	0.1643	8.1000e-004	0.1651	0.0436	7.4000e-004	0.0443		125.6426	125.6426	3.9500e-003	3.8800e-003	126.8970
Total	0.1100	3.5318	1.2275	0.0157	0.5922	0.0248	0.6170	0.1605	0.0237	0.1841		1,697.316 2	1,697.316 2	0.0557	0.2527	1,774.002 4

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Winter

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

3.4 Grading - 2026

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					3.0082	0.0000	3.0082	1.5218	0.0000	1.5218			0.0000			0.0000
Off-Road	2.9012	27.9429	26.3311	0.0621		1.1309	1.1309		1.0404	1.0404	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	2.9012	27.9429	26.3311	0.0621	3.0082	1.1309	4.1391	1.5218	1.0404	2.5622	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614

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	0.0475	3.4938	0.7786	0.0144	0.4279	0.0240	0.4519	0.1169	0.0230	0.1398		1,571.6737	1,571.6737	0.0518	0.2488	1,647.1055
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	0.0625	0.0380	0.4489	1.2400e-003	0.1643	8.1000e-004	0.1651	0.0436	7.4000e-004	0.0443		125.6426	125.6426	3.9500e-003	3.8800e-003	126.8970
Total	0.1100	3.5318	1.2275	0.0157	0.5922	0.0248	0.6170	0.1605	0.0237	0.1841		1,697.3162	1,697.3162	0.0557	0.2527	1,774.0024

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Winter

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

3.5 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0489	2.3504	0.6500	9.4500e-003	0.3291	0.0120	0.3411	0.0946	0.0115	0.1061		1,014.508 5	1,014.508 5	0.0207	0.1535	1,060.766 5
Worker	0.4312	0.2625	3.0973	8.5800e-003	1.1336	5.5600e-003	1.1392	0.3007	5.1200e-003	0.3058		866.9338	866.9338	0.0272	0.0268	875.5890
Total	0.4801	2.6129	3.7473	0.0180	1.4628	0.0176	1.4803	0.3953	0.0166	0.4119		1,881.442 2	1,881.442 2	0.0479	0.1803	1,936.355 4

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Winter

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

3.5 Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 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	0.0000	0.0000	0.0000	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	0.0489	2.3504	0.6500	9.4500e-003	0.3291	0.0120	0.3411	0.0946	0.0115	0.1061		1,014.508 5	1,014.508 5	0.0207	0.1535	1,060.766 5
Worker	0.4312	0.2625	3.0973	8.5800e-003	1.1336	5.5600e-003	1.1392	0.3007	5.1200e-003	0.3058		866.9338	866.9338	0.0272	0.0268	875.5890
Total	0.4801	2.6129	3.7473	0.0180	1.4628	0.0176	1.4803	0.3953	0.0166	0.4119		1,881.442 2	1,881.442 2	0.0479	0.1803	1,936.355 4

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Winter

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

3.5 Building Construction - 2027

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.474 4	2,556.474 4	0.6010		2,571.498 1

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	0.0473	2.3219	0.6389	9.2600e-003	0.3291	0.0118	0.3409	0.0946	0.0113	0.1059		994.4442	994.4442	0.0210	0.1504	1,039.796 2
Worker	0.4047	0.2377	2.9068	8.3200e-003	1.1336	5.2000e-003	1.1388	0.3007	4.7900e-003	0.3055		841.2319	841.2319	0.0249	0.0252	849.3655
Total	0.4521	2.5595	3.5457	0.0176	1.4627	0.0170	1.4797	0.3953	0.0161	0.4114		1,835.676 1	1,835.676 1	0.0459	0.1756	1,889.161 7

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Winter

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

3.5 Building Construction - 2027

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 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	0.0000	0.0000	0.0000	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	0.0473	2.3219	0.6389	9.2600e-003	0.3291	0.0118	0.3409	0.0946	0.0113	0.1059		994.4442	994.4442	0.0210	0.1504	1,039.796 2
Worker	0.4047	0.2377	2.9068	8.3200e-003	1.1336	5.2000e-003	1.1388	0.3007	4.7900e-003	0.3055		841.2319	841.2319	0.0249	0.0252	849.3655
Total	0.4521	2.5595	3.5457	0.0176	1.4627	0.0170	1.4797	0.3953	0.0161	0.4114		1,835.676 1	1,835.676 1	0.0459	0.1756	1,889.161 7

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Winter

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

3.6 Architectural Coating - 2027

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	10.0237					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	10.1946	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

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	0.0821	0.0482	0.5898	1.6900e-003	0.2300	1.0500e-003	0.2311	0.0610	9.7000e-004	0.0620		170.6847	170.6847	5.0400e-003	5.1100e-003	172.3350
Total	0.0821	0.0482	0.5898	1.6900e-003	0.2300	1.0500e-003	0.2311	0.0610	9.7000e-004	0.0620		170.6847	170.6847	5.0400e-003	5.1100e-003	172.3350

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Winter

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

3.6 Architectural Coating - 2027

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	10.0237					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	10.1946	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

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	0.0821	0.0482	0.5898	1.6900e-003	0.2300	1.0500e-003	0.2311	0.0610	9.7000e-004	0.0620		170.6847	170.6847	5.0400e-003	5.1100e-003	172.3350
Total	0.0821	0.0482	0.5898	1.6900e-003	0.2300	1.0500e-003	0.2311	0.0610	9.7000e-004	0.0620		170.6847	170.6847	5.0400e-003	5.1100e-003	172.3350

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Winter

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

3.7 Paving - 2027

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878

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	0.0440	0.0258	0.3160	9.0000e-004	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		91.4383	91.4383	2.7000e-003	2.7400e-003	92.3223
Total	0.0440	0.0258	0.3160	9.0000e-004	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		91.4383	91.4383	2.7000e-003	2.7400e-003	92.3223

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Winter

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

3.7 Paving - 2027

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	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850	0.0000	2,206.745 2	2,206.745 2	0.7137		2,224.587 8

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	0.0440	0.0258	0.3160	9.0000e-004	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		91.4383	91.4383	2.7000e-003	2.7400e-003	92.3223
Total	0.0440	0.0258	0.3160	9.0000e-004	0.1232	5.6000e-004	0.1238	0.0327	5.2000e-004	0.0332		91.4383	91.4383	2.7000e-003	2.7400e-003	92.3223

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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	14.4519	25.3566	173.3931	0.3887	47.6126	0.3212	47.9338	12.7108	0.3010	13.0118		39,583.80 96	39,583.80 96	2.1018	1.8808	40,196.83 84
Unmitigated	14.4519	25.3566	173.3931	0.3887	47.6126	0.3212	47.9338	12.7108	0.3010	13.0118		39,583.80 96	39,583.80 96	2.1018	1.8808	40,196.83 84

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Hotel	1,598.00	1,638.00	1190.00	14,671,200	14,671,200
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	400.00	1,043.00	1043.00	3,767,118	3,767,118
User Defined Commercial	90.00	23.00	0.00	189,330	189,330
Total	2,088.00	2,704.00	2,233.00	18,627,649	18,627,649

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Hotel	14.70	55.00	10.00	19.40	61.60	19.00	58	38	4
Parking Lot	14.70	6.60	10.00	0.00	0.00	0.00	0	0	0
Quality Restaurant	14.70	55.00	10.00	12.00	69.00	19.00	38	18	44

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Winter

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

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
User Defined Commercial	14.70	6.60	6.60	37.00	10.00	53.00	80	0	20

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hotel	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580
Parking Lot	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580
Quality Restaurant	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580
User Defined Commercial	0.566959	0.055323	0.166365	0.116893	0.030332	0.007883	0.015390	0.006635	0.001087	0.000281	0.027762	0.001510	0.003580

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.2555	2.3226	1.9510	0.0139		0.1765	0.1765		0.1765	0.1765		2,787.1149	2,787.1149	0.0534	0.0511	2,803.6773
NaturalGas Unmitigated	0.2555	2.3226	1.9510	0.0139		0.1765	0.1765		0.1765	0.1765		2,787.1149	2,787.1149	0.0534	0.0511	2,803.6773

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Winter

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Hotel	19416.6	0.2094	1.9036	1.5990	0.0114		0.1447	0.1447		0.1447	0.1447		2,284.3107	2,284.3107	0.0438	0.0419	2,297.8852
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	2839.32	0.0306	0.2784	0.2338	1.6700e-003		0.0212	0.0212		0.0212	0.0212		334.0371	334.0371	6.4000e-003	6.1200e-003	336.0221
User Defined Commercial	1434.52	0.0155	0.1406	0.1181	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.7671	168.7671	3.2300e-003	3.0900e-003	169.7700
Total		0.2555	2.3226	1.9510	0.0139		0.1765	0.1765		0.1765	0.1765		2,787.1149	2,787.1149	0.0534	0.0511	2,803.6773

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Winter

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Hotel	19.4166	0.2094	1.9036	1.5990	0.0114		0.1447	0.1447		0.1447	0.1447		2,284.3107	2,284.3107	0.0438	0.0419	2,297.8852
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	2.83932	0.0306	0.2784	0.2338	1.6700e-003		0.0212	0.0212		0.0212	0.0212		334.0371	334.0371	6.4000e-003	6.1200e-003	336.0221
User Defined Commercial	1.43452	0.0155	0.1406	0.1181	8.4000e-004		0.0107	0.0107		0.0107	0.0107		168.7671	168.7671	3.2300e-003	3.0900e-003	169.7700
Total		0.2555	2.3226	1.9510	0.0139		0.1765	0.1765		0.1765	0.1765		2,787.1149	2,787.1149	0.0534	0.0511	2,803.6773

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.5374	6.6000e-004	0.0730	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1569	0.1569	4.1000e-004		0.1671
Unmitigated	4.5966	6.6000e-004	0.0730	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1569	0.1569	4.1000e-004		0.1671

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	0.5492					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.0406					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.7200e-003	6.6000e-004	0.0730	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1569	0.1569	4.1000e-004		0.1671
Total	4.5966	6.6000e-004	0.0730	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1569	0.1569	4.1000e-004		0.1671

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Winter

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.4901					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.0406					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.7200e-003	6.6000e-004	0.0730	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1569	0.1569	4.1000e-004		0.1671
Total	4.5374	6.6000e-004	0.0730	1.0000e-005		2.6000e-004	2.6000e-004		2.6000e-004	2.6000e-004		0.1569	0.1569	4.1000e-004		0.1671

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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

Koi Nation Shiloh Resort and Casino - Alternative C - Sonoma-San Francisco County, Winter

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

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	2	0	84	2447	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	2	20	7300	0.5	CNG

User Defined Equipment

Equipment Type	Number
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10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Boiler - CNG (0 - 2 MMBTU)	0.2157	0.9600	3.8432	0.0235		0.2980	0.2980		0.2980	0.2980		4,705.9628	4,705.9628	0.0902		4,708.2177
Emergency Generator - Diesel (750 - 9999 HP)	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	0.2157	0.9600	3.8432	0.0235		0.2980	0.2980		0.2980	0.2980		4,705.9628	4,705.9628	0.0902		4,708.2177

11.0 Vegetation

Sonoma County

PM2.5 Concentrations and Cancer Risks

Generated from Surface Streets

How to use the screening tables:

- Distance is from the edge of the nearest travel lane of a street to the facility or development
- When two or more streets are within the influence area, sum the contribution from each street

PM_{2.5} CONCENTRATIONS (UG/M³)

NORTH-SOUTH DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance East or West of Surface Street - PM2.5 Concentration (ug/m ³)						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	0.162	0.152	0.105	0.035	0.016	0.013	0.010
20,000	0.181	0.171	0.152	0.105	0.032	0.022	0.017
30,000	0.257	0.247	0.219	0.152	0.053	0.036	0.021
40,000	0.323	0.314	0.285	0.200	0.068	0.047	0.030
50,000	0.456	0.447	0.380	0.247	0.086	0.065	0.040
60,000	0.604	0.594	0.494	0.314	0.105	0.077	0.051
70,000	0.751	0.742	0.608	0.380	0.124	0.088	0.063
80,000	0.858	0.848	0.695	0.435	0.141	0.101	0.072
90,000	0.966	0.953	0.782	0.489	0.159	0.114	0.081
100,000	1.073	1.059	0.869	0.543	0.177	0.126	0.090

EAST-WEST DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance North or South of Surface Street - PM2.5 Concentration (ug/m ³)						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	0.071	0.071	0.069	0.051	0.019	0.017	0.015
20,000	0.143	0.133	0.114	0.095	0.047	0.036	0.026
30,000	0.210	0.238	0.219	0.143	0.068	0.055	0.032
40,000	0.229	0.248	0.238	0.191	0.085	0.065	0.050
50,000	0.419	0.343	0.286	0.219	0.114	0.084	0.057
60,000	0.429	0.362	0.329	0.267	0.133	0.099	0.071
70,000	0.438	0.381	0.372	0.314	0.152	0.114	0.086
80,000	0.501	0.436	0.425	0.359	0.174	0.131	0.098
90,000	0.564	0.490	0.478	0.404	0.196	0.147	0.110
100,000	0.626	0.544	0.531	0.449	0.218	0.163	0.123

LIFETIME CANCER RISK

NORTH-SOUTH DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance East or West of Surface Street - Cancer Risk (per million)						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	5.12	4.96	3.60	1.56	0.89	0.63	0.50
20,000	5.94	5.86	5.18	3.60	1.41	1.25	0.89
30,000	8.28	8.19	7.36	5.18	2.02	1.42	1.04
40,000	10.53	10.37	9.04	6.76	2.62	1.86	1.34
50,000	15.04	14.74	12.77	8.27	3.29	2.39	1.71
60,000	19.92	19.55	16.17	10.52	3.93	2.84	1.94
70,000	24.81	24.37	19.57	12.77	4.56	3.29	2.18
80,000	28.36	27.85	22.37	14.60	5.22	3.76	2.49
90,000	31.90	31.33	25.16	16.42	5.87	4.23	2.80
100,000	35.44	34.81	27.96	18.25	6.52	4.70	3.11

EAST-WEST DIRECTIONAL ROADWAY							
Annual Average Daily Traffic	Distance North or South of Surface Street - Cancer Risk (per million)						
	10 feet	50 feet	100 feet	200 feet	500 feet	700 feet	1,000 feet
1,000	No analysis required						
5,000	No analysis required						
10,000	2.55	2.26	1.82	1.01	0.75	0.71	0.67
20,000	5.02	3.79	3.04	1.93	1.29	1.06	0.90
30,000	7.42	7.39	6.79	4.38	2.11	1.59	1.27
40,000	7.95	7.91	8.25	6.31	3.00	2.32	1.65
50,000	13.76	12.00	9.76	7.07	3.69	2.78	1.95
60,000	14.31	12.38	10.90	8.62	4.36	3.27	2.40
70,000	14.87	12.77	12.04	10.16	5.04	3.76	2.86
80,000	16.99	14.60	13.76	11.61	5.76	4.30	3.26
90,000	19.12	16.42	15.48	13.06	6.48	4.83	3.67
100,000	21.24	18.25	17.20	14.51	7.20	5.37	4.08

- Screening tables based on meteorological data collected from Santa Rosa in 2005.
- The maximum acute and chronic hazard index for the distances and AADT shown in the table will be less than 0.03.
- Cancer risk were estimated based on exposure from 2014 through 2084. PM2.5 concentrations were based on emissions in 2014.

Diesel Exhaust PM Risk (Potential Cancer Cases in A Million) for 2600 HP Engines

Hours	EF = 0.02 g/bhp-hr												EF = 0.15 g/bhp-hr											
	Downwind Distance (m)												Downwind Distance (m)											
	50	80	100	120	150	175	200	280	370	400	800	1600	50	80	100	120	150	175	200	280	370	400	800	1600
10	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	2	2	2	1	1	1	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	3	3	3	3	3	3	2	1	1	0	0	
40	1	1	1	1	1	1	0	0	0	0	0	0	4	4	4	4	4	3	2	2	1	0	0	
50	1	1	1	1	1	1	1	0	0	0	0	0	4	4	4	4	4	4	3	2	2	1	0	
100	1	1	1	1	1	1	1	1	1	1	0	0	9	9	9	9	9	8	6	4	4	1	0	
150	2	2	2	2	2	2	2	1	1	1	0	0	13	13	13	13	13	12	9	6	5	2	1	
200	2	2	2	2	2	2	2	2	1	1	0	0	18	18	18	18	17	16	12	8	7	2	1	
300	4	4	4	4	4	4	3	2	2	1	0	0	26	26	26	26	26	25	18	12	11	3	1	
400	5	5	5	5	5	5	4	3	2	2	1	0	35	35	35	35	35	33	24	16	14	4	1	
500	6	6	6	6	6	6	6	4	3	2	1	0	44	44	44	44	44	41	30	20	18	5	2	
1000	12	12	12	12	12	12	11	8	5	5	1	0	88	88	88	88	88	87	82	59	40	36	10	3

Hours	EF = 0.4 g/bhp-hr												EF = 0.55 g/bhp-hr											
	Downwind Distance (m)												Downwind Distance (m)											
	50	80	100	120	150	175	200	280	370	400	800	1600	50	80	100	120	150	175	200	280	370	400	800	1600
10	2	2	2	2	2	2	2	1	1	0	0	0	3	3	3	3	3	3	2	2	1	0	0	
20	5	5	5	5	5	5	4	3	2	2	1	0	7	7	7	7	7	6	6	4	3	3	1	0
30	7	7	7	7	7	7	7	5	3	3	1	0	10	10	10	10	10	9	7	4	4	1	0	
40	9	9	9	9	9	9	9	6	4	4	1	0	13	13	13	13	13	12	9	6	5	2	1	
50	12	12	12	12	12	12	11	8	5	5	1	0	16	16	16	16	16	15	11	7	7	2	1	
100	24	24	24	24	24	23	22	16	11	10	3	1	32	32	32	32	32	30	22	15	13	4	1	
150	35	35	35	35	35	35	33	24	16	14	4	1	48	48	48	48	48	45	33	22	20	6	2	
200	47	47	47	47	47	46	44	32	22	19	6	2	65	65	65	65	64	60	44	30	26	8	2	
300	70	70	70	70	70	70	66	48	32	28	8	3	97	97	97	97	97	96	90	65	44	39	11	4
400	94	94	94	94	94	93	87	63	43	38	11	3	129	129	129	129	129	128	120	87	59	52	15	5
500	117	117	117	117	117	116	109	79	54	47	14	4	161	161	161	161	161	160	150	109	74	65	19	6
1000	235	235	235	235	235	232	218	158	108	95	27	8	323	323	323	323	323	319	300	218	148	130	38	12

Hours	EF = 1.0 g/bhp-hr											
	Downwind Distance (m)											
	50	80	100	120	150	175	200	280	370	400	800	1600
10	6	6	6	6	6	6	4	3	2	1	0	0
20	12	12	12	12	12	12	11	8	6	5	1	1
30	18	18	18	18	18	18	17	12	8	7	2	1
40	24	24	24	24	24	23	22	16	11	10	3	1
50	29	29	29	29	29	29	27	20	14	12	4	1
100	59	59	59	59	59	58	55	40	27	24	7	2
150	88	88	88	88	88	87	82	60	40	36	10	3
200	117	117	117	117	117	116	109	79	54	47	14	4
300	176	176	176	176	176	174	164	119	81	71	21	6
400	235	235	235	235	235	232	219	158	108	95	27	9
500	293	293	293	293	293	290	273	198	135	118	34	11
1000	587	587	587	587	587	581	546	396	269	237	68	21

Assume: 75% load.

Model used: ISCST3; Meteorological Data: West Los Angeles (1981), Urban Option.

The bold number indicates the downwind distance at the maximum risks.

Appendix F-2
Draft General Conformity Determination

Draft General Conformity Determination

Koi Nation Fee-to-Trust and Shiloh Resort and Casino Project

November 2022

Lead Agency:

Bureau of Indian Affairs
Pacific Region
2800 Cottage Way
Sacramento, CA 95825

Prepared by:



5170 Golden Foothill Parkway
El Dorado Hills, CA 95762
O: 916-235-8224 | w: www.acorn-env.com

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Appendix A – AERSCREEN output files

Koi Nation Fee-to-Trust and Shiloh Resort and Casino Project

Draft General Conformity Determination

1. Introduction

The Koi Nation of Northern California's (Koi Nation; Tribe) has submitted a fee-to-trust application to the Bureau of Indian Affairs (BIA), requesting that the U.S. Department of Interior take a 68.6-acre property (project site) in Sonoma County, California into federal trust status. The BIA is the federal agency charged with reviewing and approving tribal applications to take land into federal trust status (Federal Action).

The project site is located in an unincorporated portion of the County adjacent to the Town of Windsor. Regional access to the project site is provided by Highway 101, which runs in a general north-south direction and is located approximately 0.5 miles west of the project site. Local access to the project site is provided by Shiloh Road and Old Redwood Highway.

Following the acquisition of the project site into federal trust, the Tribe proposes to develop a resort facility that includes a casino, hotel, ballroom/meeting space, event center, spa, and associated parking and infrastructure on the project site (Proposed Project). The Proposed Project is referred to as the Shiloh Resort and Casino Project

An Environmental Assessment (EA) has been prepared pursuant to the National Environmental Policy Act (NEPA) to assess the environmental impacts resulting from the Proposed Project. The EA addresses three build alternatives:

Alternative A – Proposed Project

Alternative B – Reduced Intensity Alternative

Alternative C – Non-Gaming Alternative

This general conformity determination has been prepared for Alternative A, which proposes the largest development and potential to effect air quality.

2. General Conformity Regulatory Background

The Clean Air Act (CAA) requires the United States Environmental Protection Agency (EPA) to set National Ambient Air Quality Standards (NAAQS) for pollutants that are common in outdoor air, considered harmful to public health and the environment, and that come from numerous and diverse sources. NAAQS have been developed for carbon monoxide (CO), lead (Pb), coarse and fine particulate matter (PM10 or PM2.5, respectively), sulfur oxides (SOx), and nitrogen dioxide (NO2), ozone (O3) and its precursors, oxides of nitrogen (NOx) and reactive organic gasses (ROGs).

2.1. General Conformity Requirements

Areas of the country that do not meet the NAAQS for any pollutant are designated by the EPA as “nonattainment areas.” Areas that were once designated nonattainment, but are now achieving the NAAQS are termed “maintenance areas.” Areas which have air pollution levels below the NAAQS are termed “attainment areas.” In nonattainment areas, states must develop State Implementation Plans (SIPs) to reduce emissions and bring the area back into attainment of the NAAQS.

The EPA promulgated the General Conformity Rule on November 30, 1993, to implement the conformity provision of Title I, Section 176(c)(1) of the federal Clean Air Act (CAA), which requires that the federal government not engage, support or provide financial assistance for licensing or permitting, or approving any activity not conforming to an approved CAA implementation plan for compliance with the NAAQS. The General Conformity Rule ensures that the actions taken by federal agencies in nonattainment and maintenance areas do not interfere with a state’s plans to meet national standards for air quality. CAA conformity is an issue that may be addressed during the NEPA process, and EPA recommends that the conformity process be coupled with NEPA analysis.

Implementation of the existing General Conformity Regulations falls into three phases: applicability analysis, conformity determination, and review process. Only actions which cause emissions in designated nonattainment and maintenance areas are subject to the regulations. In addition, the regulations recognize that the vast majority of federal actions do not result in a significant increase in emissions and, therefore, include a number of exemptions, the most predominantly implemented of which is the de minimis emission levels based on the type and severity of the nonattainment problem. If the action will cause emissions above the de minimis levels in any nonattainment or maintenance area and the action is not otherwise exempt, “presumed to conform,” or included in the existing emissions budget of the SIP, the agency must conduct a conformity determination before it takes the action.

40 CFR Sections 93.158 and 93.159 provide the criteria and procedures, respectively, for determining conformity of general Federal actions. For CO, total direct and indirect emissions from the action must be shown by air quality modeling to not cause or contribute to any new violation of any standard or increase the frequency or severity of any existing violation of any standard. The total direct and indirect emissions from the action must be in compliance with all relevant requirements in the applicable SIP.

The applicable SIP is the California State Implementation Plan for Carbon Monoxide, which was most recently updated in 2004. The California Air Resources Control Board (CARB) is the state agency responsible for achieving compliance with the NAAQS. CARB's emission control programs, including strict motor vehicle emission standards and the clean fuels program, have reduced CO emissions dramatically. Ten of the eleven areas of the state originally listed by the EPA in 1991 as non-attainment area have been in attainment with the National CO standards since the mid-1990s, including the San Francisco-Oakland-San Jose Area, which includes the project site. While vehicle miles traveled (VMT) have increased, CO emissions have fallen sharply as the result of CARB’s mobile source, clean fuel and stationary source regulations.

As public bodies, federal agencies must make their conformity determinations through a public process. The General Conformity Regulations require federal agencies to provide notice of the draft determination to the applicable EPA Regional Office, the state and local air quality agencies, the local MPO and, where applicable, the Federal Land Manager. In addition, the regulations require federal

agencies to provide at least a 30-day comment period on the draft determination and make the final determination public.

2.2. General Conformity Applicability

For the Proposed Action, on-road vehicle trips within the BAAQMD jurisdiction would be subject to the following federal General Conformity Rule de minimis thresholds:

100 tons per year VOC or ROG

100 tons per year NO_x

100 tons per year CO

100 tons per year PM_{2.5}

100 tons per year PM₁₀

As detailed in the EA for the Project Alternatives, associated emissions of ROG, NO_x, PM₁₀, and PM_{2.5} within the BAAQMD jurisdiction would be below the respective General Conformity Rule de minimis thresholds. However, for Alternatives A and B, CO was determined to exceed the 100 ton per year de minimis threshold in the BAAQMD jurisdiction, and as such, is analyzed in greater detail below.

3. Assessment of Conformity Emissions

When the EPA upgraded the CO status of the 10 California areas from moderate non-attainment to maintenance, a revision to the SIP was needed. In 2004, CARB submitted to the EPA a revision to the SIP, and included a Maintenance Plan, in the *Revision to the California State Implementation Plan for Carbon Monoxide, Updated Maintenance Plan for Ten Federal Planning Areas* (CARB, 2004). The Maintenance Plan outlines how the SFBAAB will continue to comply with the NAAQS. CO emission sources resulting from the Proposed Action in the BAAQMD jurisdiction would be primarily indirect emissions from on-road vehicles – patrons, employees, delivery trucks, and buses.

As described in Section 2.1 above, conformity can be shown by conducting air quality modeling that demonstrates that the emissions will not cause or contribute to new violations of the standards or increase the frequency or severity of any existing violations of the standards. Air modeling analysis was performed concurrently for the EA and this general conformity determination. The results of this analysis are summarized below with model outputs included in **Appendix A**.

4. CO General Conformity Determination

Air quality modeling was performed for the EA and the general conformity determination concurrently. The results of this analysis can be found in the EA, in Section 3.4. The air quality modeling estimated that Alternative A would generate approximately 263 tons/year of CO, of which 255 tons/year are associated with mobile emissions. By comparison, Alternative B would generate approximately 213 tons/year of CO, of which 207 tons/year are associated with mobile emissions. CO emissions of Alternative C were modeled to fall below the de minimis threshold of 100 tons per year.

Because CO emissions would exceed the de minimis levels, CO concentrations were modeled to determine whether increased traffic associated with the Proposed Project would result in CO emissions that could exceed the NAAQS. CO concentrations at one representative intersection were modeled using

AERSCREEN, the screening version of AERMOD. AERSCREEN is the EPA’s recommended screening model for most applications, including addressing compliance with CO NAAQS. Likewise, AERMOD is EPA’s preferred near-field dispersion modeling system (EPA, 2017).

Mobile emissions rates were sourced from CARB’s EMFAC project-level web tool, and reflect 2028 emission rates (proposed opening year) (CARB, 2022). Fleet mix estimates were sourced from the EPA-approved 2020 California Emissions Estimator Model, Version 2020.4.0 (CalEEMod). Intersection level of service (LOS), peak-hour vehicle volumes and queuing lengths were sourced from the Traffic Impact Study (TIS) prepared by TJKM and included the EA. The 2040 condition traffic scenario was used to provide the most conservative estimate of traffic volumes. The intersection of Shiloh Road and the US 101 north-bound off-ramp was chosen to provide a conservative estimate of potential CO concentrations. Of the intersections analyzed in the TIS, this intersection has relatively high traffic volumes, low LOS, and long queue lengths. This intersection is also near US 101, an adjacent source of CO emissions. CO emissions from US 101 were also modeled to provide a conservative estimate of potential maximum CO emissions. Project trips were added to project 2040 US 101 peak hour volumes. An estimate of background CO levels in the area is based on monitoring data from Sebastopol and provided through EPA’s AirData Air Quality Monitors website (EPA, 2022). The representative background level selected is 1.2 ppm (1 hour average) from January 2019. This data point was selected as it represents peak CO emissions during winter when mobile CO emissions are higher. Higher CO emissions have been recorded in summer and fall months but are influenced by wildfires. The 2019 data also captures higher pre-COVID19 pandemic traffic volumes than other more recent data. A persistence factor of 0.7 is used to convert 1-hour concentrations to 8-hour concentrations, consistent with EPA guidelines (EPA, 1992).

Table summarizes the results of the AERSCREEN dispersion modeling conducted for Alternative A of the Proposed Action. Alternative B of the Proposed Action would generate less traffic and mobile emissions and was not modeled. Alternative A represents the maximum potential emissions from the Proposed Action.

Table 1: Estimated Maximum Carbon Monoxide Concentrations – Proposed Action Alternative A

Averaging Time (hours)	Concentrations (ppm)						
	Shiloh Road/US 101 NB Off-Ramp Intersection No Action	Shiloh Road/US 101 NB Off-Ramp Intersection with Alternative A	Project Contribution	Background	US 101 Contribution	Maximum Concentration	NAAQS
1	0.6	0.8	0.2	1.2	3.9	5.9	35
8	0.4	0.6	0.2	0.9	2.7	4.2	9

Notes: Modeled location is the intersection of Shiloh Road and northbound US 101 off-ramp based on 2040 traffic volumes and 2028 EMFAC emission factors. Highest concentrations for intersection and US 101 are combined to provide maximum concentrations.

The Proposed Action would not cause or contribute to violations of the NAAQS as discussed above; therefore, the Proposed Action conforms to the Maintenance Plan and SIP and is consistent with conformity determination criteria.

5. Conclusion

Based on the information and analysis presented above, approval of the Proposed Action would conform to the SIP and CO Maintenance Plan implemented pursuant to the CAA. Modeling of CO shows that the Proposed Action would not cause or contribute to new violations of the standards, or increase the frequency or severity of any existing violations of the standards. 40 CFR 93.158(a)(4)(i), (b) and (c).

This Draft Conformity Determination will be submitted to EPA, CARB, BAAQMD and other applicable agencies per 40 CFR 93.155 (a). After the 30-day comment period for this Draft Conformity Determination, the BIA will make a Final Conformity Determination before taking action on the proposed fee-to-trust application per 40 CFR 93.150 (b).

6. References

California Air Resources Board (CARB), 2004. *Revision to the California State Implementation Plan for Carbon Monoxide, Updated Maintenance Plan for Ten Federal Planning Areas*. Adopted by CARB July 22, 2004.

CARB, 2022. EMFAC project-level web tool. Available at: <https://arb.ca.gov/emfac/project-analysis>

United States Environmental Protection Agency (EPA), 1992. *Guideline for Modeling Carbon Monoxide from Roadway Intersections*.

EPA, 2017. *Revisions to the Guideline on Air Quality Models: Enhancements to the AERMOD Dispersion Modeling System and Incorporation of Approaches to Address Ozone and Fine Particulate Matter*. Federal Register, Vol. 82, No. 10, January 17, 2017.

EPA, 2022. EPA AirData Air Quality Monitors application. Available at: <https://epa.maps.arcgis.com/apps/webappviewer/index.html?id=5f239fd3e72f424f98ef3d5def547eb5&extent=-146.2334,13.1913,-46.3896,56.5319>

Appendix A

Start date and time 11/10/22 23:13:12
AERSCREEN 21112

Koi_Int_2040_NP

Koi_Int_2040_NP

```
----- DATA ENTRY VALIDATION -----  
METRIC ENGLISH  
** AREADATA ** -----  
Emission Rate: 0.6500 g/s 5.159 lb/hr  
Area Height: 0.50 meters 1.64 feet  
Area Source Length: 200.00 meters 656.17 feet  
Area Source Width: 200.00 meters 656.17 feet  
Vertical Dimension: 4.00 meters 13.12 feet  
Model Mode: URBAN  
Population: 26039  
Dist to Ambient Air: 3.0 meters 10. feet
```

** BUILDING DATA **

No Building Downwash Parameters

** TERRAIN DATA **

No Terrain Elevations

Source Base Elevation: 0.0 meters 0.0 feet

Probe distance: 1000. meters 3281. feet

No flagpole receptors

No discrete receptors used

** FUMIGATION DATA **

No fumigation requested

** METEOROLOGY DATA **

Min/Max Temperature: 270.0 / 316.0 K 26.3 / 109.1 Deg F

Minimum Wind Speed: 0.5 m/s

Anemometer Height: 10.000 meters

Dominant Surface Profile: Urban

Dominant Climate Type: Average Moisture

Surface friction velocity (u*): not adjusted

DEBUG OPTION ON

AERSCREEN output file:
Koi_Int_2040_NP.out

*** AERSCREEN Run is Ready to Begin

No terrain used, AERMAP will not be run

SURFACE CHARACTERISTICS & MAKEMET

Obtaining surface characteristics...

Using AERMET seasonal surface characteristics for Urban with Average Moisture

Season	Albedo	Bo	zo
Winter	0.35	1.50	1.000
Spring	0.14	1.00	1.000
Summer	0.16	2.00	1.000
Autumn	0.18	2.00	1.000

Creating met files aerscreen_01_01.sfc & aerscreen_01_01.pfl

Creating met files aerscreen_02_01.sfc & aerscreen_02_01.pfl

Creating met files aerscreen_03_01.sfc & aerscreen_03_01.pfl

Creating met files aerscreen_04_01.sfc & aerscreen_04_01.pfl

Buildings and/or terrain present or rectangular area source, skipping probe

FLOWSECTOR started 11/10/22 23:16:31

Running AERMOD
Processing Winter

Processing surface roughness sector 1

Processing wind flow sector 1

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 0

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 2

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 5

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 3

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 10

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 4

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 15

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 5

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 20

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 6

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 25

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 7

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 30

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 8

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 35

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 9

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 10

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 45

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 11

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 50

***** WARNING MESSAGES *****
*** NONE ***

Running AERMOD
Processing Spring

Processing surface roughness sector 1

Processing wind flow sector 1

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 0

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 2

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 5

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 3

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 10

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 4

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 15

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 5

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 20

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 6

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 25

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 7

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 30

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 8

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 35

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 9

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 10

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 45

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 11

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 50

***** WARNING MESSAGES *****
*** NONE ***

Running AERMOD
Processing Summer

Processing surface roughness sector 1

Processing wind flow sector 1

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 0

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 2

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 5

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 3

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 10

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 4

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 15

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 5

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 20

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 6

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 25

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 7

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 30

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 8

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 35

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 9

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 10

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 45

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 11

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 50

***** WARNING MESSAGES *****
*** NONE ***

Running AERMOD
Processing Autumn

Processing surface roughness sector 1

Processing wind flow sector 1

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 0

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 2

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 5

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 3

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 10

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 4

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 15

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 5

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 20

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 6

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 25

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 7

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 30

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 8

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 35

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 9

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 10

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 45

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 11

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 50

***** WARNING MESSAGES *****
*** NONE ***

FLOWSECTOR ended 11/10/22 23:16:45
REFINE started 11/10/22 23:16:45

AERMOD Finishes Successfully for REFINE stage 3 Winter sector 0

***** WARNING MESSAGES *****
*** NONE ***

REFINE ended 11/10/22 23:16:46

AERSCREEN Finished Successfully

With no errors or warnings
Check log file for details

Ending date and time 11/10/22 23:16:47

Koi_Int_2040_No Project

Concentration	Distance	Elevation	Diag	Season/Month	Zo sector	Date	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	ZO	BOWEN	ALBEDO	REF WS	HT	REF TA	HT
5.10E+02	3	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
5.45E+02	25	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
5.81E+02	50.01	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
6.13E+02	75	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
6.43E+02	100	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
6.71E+02	125	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
* 0.69477E+03	141	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
6.06E+02	150.01	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
4.65E+02	174.99	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
3.91E+02	200	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
3.43E+02	225	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
3.07E+02	250	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
2.80E+02	274.99	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
2.57E+02	300	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
2.38E+02	325	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
2.22E+02	350	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
2.08E+02	375.01	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.96E+02	400	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.84E+02	425	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.74E+02	450	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.65E+02	475.01	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.57E+02	500	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.50E+02	525	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.43E+02	550	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.37E+02	575.01	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.31E+02	599.99	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.26E+02	625	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.21E+02	650	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.17E+02	675	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.13E+02	699.99	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.09E+02	725	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.05E+02	750	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.02E+02	775	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
9.85E+01	800.01	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
9.54E+01	825	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
9.25E+01	850	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
8.97E+01	875	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
8.71E+01	900.01	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
8.47E+01	924.99	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
8.23E+01	950	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
8.00E+01	975	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
7.79E+01	1000	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2

Start date and time 11/10/22 22:53:29
AERSCREEN 21112

Koi_Int_2040_A

Koi_Int_2040_A

----- DATA ENTRY VALIDATION -----
METRIC ENGLISH

** AREADATA **

Emission Rate:	0.8700 g/s	6.905 lb/hr
Area Height:	0.50 meters	1.64 feet
Area Source Length:	200.00 meters	656.17 feet
Area Source Width:	200.00 meters	656.17 feet
Vertical Dimension:	4.00 meters	13.12 feet
Model Mode:	URBAN	
Population:	26039	
Dist to Ambient Air:	3.0 meters	10. feet

** BUILDING DATA **

No Building Downwash Parameters

** TERRAIN DATA **

No Terrain Elevations
Source Base Elevation: 0.0 meters 0.0 feet
Probe distance: 1000. meters 3281. feet

No flagpole receptors

No discrete receptors used

** FUMIGATION DATA **

No fumigation requested

** METEOROLOGY DATA **

Min/Max Temperature: 270.0 / 316.0 K 26.3 / 109.1 Deg F

Minimum Wind Speed: 0.5 m/s

Anemometer Height: 10.000 meters

Dominant Surface Profile: Urban

Dominant Climate Type: Average Moisture

Surface friction velocity (u*): not adjusted

DEBUG OPTION ON

AERSCREEN output file:
Koi_Int_2040_A.out

*** AERSCREEN Run is Ready to Begin

No terrain used, AERMAP will not be run

SURFACE CHARACTERISTICS & MAKEMET

Obtaining surface characteristics...

Using AERMET seasonal surface characteristics for Urban with Average Moisture

Season	Albedo	Bo	zo
Winter	0.35	1.50	1.000
Spring	0.14	1.00	1.000
Summer	0.16	2.00	1.000
Autumn	0.18	2.00	1.000

Creating met files aerscreen_01_01.sfc & aerscreen_01_01.pfl

Creating met files aerscreen_02_01.sfc & aerscreen_02_01.pfl

Creating met files aerscreen_03_01.sfc & aerscreen_03_01.pfl

Creating met files aerscreen_04_01.sfc & aerscreen_04_01.pfl

Buildings and/or terrain present or rectangular area source, skipping probe

FLOWSECTOR started 11/10/22 22:58:37

Running AERMOD
Processing Winter

Processing surface roughness sector 1

Processing wind flow sector 1

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 0

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 2

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 5

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 3

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 10

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 4

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 15

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 5

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 20

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 6

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 25

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 7

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 30

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 8

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 35

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 9

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 10

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 45

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 11

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 50

***** WARNING MESSAGES *****
*** NONE ***

Running AERMOD
Processing Spring

Processing surface roughness sector 1

Processing wind flow sector 1

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 0

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 2

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 5

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 3

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 10

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 4

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 15

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 5

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 20

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 6

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 25

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 7

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 30

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 8

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 35

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 9

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 10

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 45

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 11

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 50

***** WARNING MESSAGES *****
*** NONE ***

Running AERMOD
Processing Summer

Processing surface roughness sector 1

Processing wind flow sector 1

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 0

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 2

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 5

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 3

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 10

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 4

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 15

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 5

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 20

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 6

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 25

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 7

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 30

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 8

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 35

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 9

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 10

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 45

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 11

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 50

***** WARNING MESSAGES *****
*** NONE ***

Running AERMOD
Processing Autumn

Processing surface roughness sector 1

Processing wind flow sector 1

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 0

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 2

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 5

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 3

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 10

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 4

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 15

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 5

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 20

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 6

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 25

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 7

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 30

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 8

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 35

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 9

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 40

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 10

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 45

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 11

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 50

***** WARNING MESSAGES *****
*** NONE ***

FLOWSECTOR ended 11/10/22 22:58:50

REFINE started 11/10/22 22:58:50

AERMOD Finishes Successfully for REFINE stage 3 Winter sector 0

***** WARNING MESSAGES *****
*** NONE ***

REFINE ended 11/10/22 22:58:52

AERSCREEN Finished Successfully

With no errors or warnings
Check log file for details

Ending date and time 11/10/22 22:58:52

Koi_Int_2040_A

Concentration	Distance	Elevation	Diag	Season/Month	Zo sector	Date	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	HT	REF TA	HT
6.83E+02	3	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
7.30E+02	25	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
7.77E+02	50.01	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
8.21E+02	75	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
8.61E+02	100	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
8.98E+02	125	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
* 0.92992E+03	141	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
8.11E+02	150.01	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
6.22E+02	174.99	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
5.24E+02	200	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
4.59E+02	225	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
4.11E+02	250	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
3.74E+02	274.99	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
3.44E+02	300	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
3.19E+02	325	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
2.97E+02	350	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
2.79E+02	375.01	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
2.62E+02	400	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
2.46E+02	425	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
2.33E+02	450	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
2.21E+02	475.01	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
2.10E+02	500	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
2.00E+02	525	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.92E+02	550	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.83E+02	575.01	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.76E+02	599.99	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.69E+02	625	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.63E+02	650	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.57E+02	675	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.51E+02	699.99	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.46E+02	725	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.41E+02	750	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.36E+02	775	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.32E+02	800.01	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.28E+02	825	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.24E+02	850	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.20E+02	875	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.17E+02	900.01	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.13E+02	924.99	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.10E+02	950	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.07E+02	975	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.04E+02	1000	0	45	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2

Start date and time 11/11/22 05:34:50
AERSCREEN 21112

KOI_101_2040

----- DATA ENTRY VALIDATION -----

	METRIC	ENGLISH
** AREADATA **		
Emission Rate:	1.6100 g/s	12.778 lb/hr
Area Height:	0.50 meters	1.64 feet
Area Source Length:	400.00 meters	1312.34 feet
Area Source Width:	36.00 meters	118.11 feet
Vertical Dimension:	4.00 meters	13.12 feet
Model Mode:	URBAN	
Population:	26039	
Dist to Ambient Air:	3.0 meters	10. feet

** BUILDING DATA **

No Building Downwash Parameters

** TERRAIN DATA **

No Terrain Elevations

Source Base Elevation: 0.0 meters 0.0 feet

Probe distance: 1000. meters 3281. feet

No flagpole receptors

No discrete receptors used

** FUMIGATION DATA **

No fumigation requested

** METEOROLOGY DATA **

Min/Max Temperature: 270.0 / 316.0 K 26.3 / 109.1 Deg F

Minimum Wind Speed: 0.5 m/s

Anemometer Height: 10.000 meters

Dominant Surface Profile: Urban

Dominant Climate Type: Average Moisture

Surface friction velocity (u*): not adjusted

DEBUG OPTION ON

AERSCREEN output file:
KOI_101_2040.OUT

*** AERSCREEN Run is Ready to Begin

No terrain used, AERMAP will not be run

SURFACE CHARACTERISTICS & MAKEMET
Obtaining surface characteristics...

Using AERMET seasonal surface characteristics for Urban with Average
Moisture

Season	Albedo	Bo	zo
Winter	0.35	1.50	1.000
Spring	0.14	1.00	1.000
Summer	0.16	2.00	1.000
Autumn	0.18	2.00	1.000

Creating met files aerscreen_01_01.sfc & aerscreen_01_01.pfl

Creating met files aerscreen_02_01.sfc & aerscreen_02_01.pfl

Creating met files aerscreen_03_01.sfc & aerscreen_03_01.pfl

Creating met files aerscreen_04_01.sfc & aerscreen_04_01.pfl

Buildings and/or terrain present or rectangular area source, skipping
probe

FLOWSECTOR started 11/11/22 05:35:38

Running AERMOD
Processing Winter

Processing surface roughness sector 1

Processing wind flow sector 1

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 0

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 2

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 5

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 3

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Winter sector 10

***** WARNING MESSAGES *****
*** NONE ***

Running AERMOD
Processing Spring

Processing surface roughness sector 1

Processing wind flow sector 1

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 0

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 2

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 5

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 3

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Spring sector 10

***** WARNING MESSAGES *****
*** NONE ***

Running AERMOD
Processing Summer

Processing surface roughness sector 1

Processing wind flow sector 1

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 0

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 2

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 5

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 3

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Summer sector 10

***** WARNING MESSAGES *****
*** NONE ***

Running AERMOD
Processing Autumn

Processing surface roughness sector 1

Processing wind flow sector 1

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 0

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 2

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 5

***** WARNING MESSAGES *****
*** NONE ***

Processing wind flow sector 3

AERMOD Finishes Successfully for FLOWSECTOR stage 2 Autumn sector 10

***** WARNING MESSAGES *****
*** NONE ***

FLOWSECTOR ended 11/11/22 05:35:45

REFINE started 11/11/22 05:35:45

AERMOD Finishes Successfully for REFINE stage 3 Winter sector 0

***** WARNING MESSAGES *****
*** NONE ***

REFINE ended 11/11/22 05:35:47

AERSCREEN Finished Successfully
With no errors or warnings
Check log file for details

Ending date and time 11/11/22 05:35:48

Koi_101_2040

Concentration	Distance	Elevation	Diag	Season/Month	Zo sector	Date	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	ZO	BOWEN	ALBEDO	REF WS	HT	REF TA	HT
3.79E+03	3	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
3.90E+03	25	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
4.01E+03	50	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
4.10E+03	75	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
4.17E+03	100	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
4.25E+03	125	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
4.32E+03	150	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
4.38E+03	175	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
4.43E+03	200	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
* 0.44346E+04	201	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
3.11E+03	225	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
2.40E+03	250	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.95E+03	275	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.57E+03	300	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.37E+03	325	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.21E+03	350	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
1.08E+03	375	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
9.75E+02	400	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
8.86E+02	425	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
8.11E+02	450	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
7.46E+02	475	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
6.91E+02	500	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
6.42E+02	525	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
5.99E+02	550	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
5.61E+02	575	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
5.27E+02	600	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
4.97E+02	625	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
4.69E+02	650	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
4.44E+02	675	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
4.21E+02	700	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
4.00E+02	725	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
3.81E+02	750	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
3.64E+02	775	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
3.48E+02	800	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
3.33E+02	825	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
3.19E+02	850	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
3.07E+02	875	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
2.95E+02	900	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
2.83E+02	925	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
2.73E+02	950	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
2.63E+02	975	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2
2.54E+02	1000	0	0	Winter	0-360	10011001	-1.31	0.043	-9	0.02	-999	21	6.1	1	1.5	0.35	0.5	10	316	2