

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	<p>Four Tier4 1,650-KW (2,447 HP) emergency gen/sets operating 60 hours per year. One Tier4 1,650-KW (2,447 HP) emergency gen/set operating 12 hours per year.</p> <p>One Tier 4 900-KW (1,367 HP) emergency gen/set operating 60 hours per year.</p>	Section 2 of the EA/TEIR
Land Use Change	Vegetation land use type (cropland, etc.) and initial and final acreage	<p>Initial Cropland: 61.7 acres</p> <p>Final Cropland: 14.1 acres</p>	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	--	--

Alternative A – Mitigation Inputs (cont.)

Mitigation Input	CAPCOA Mitigation	Include in Model?		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	--	--

Alternative A – Mitigation Inputs (cont.)

Mitigation Input	CAPCOA Mitigation	Include in Model?		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.	--	--

Alternative A – Mitigation Inputs (cont.)

Mitigation Input	CAPCOA Mitigation	Include in Model?	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

Table 1: 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	62,050,000
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	
Industrial	User Defined (WWTP)	18.9	Ksf	0	18,900	

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.

Table 2: 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

Table 3: 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.

Table 4: 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	0	0
Hotel	Default	Default	Default	Default	Default
Unenclosed Parking Structure with Elevator	Default	Default	Default	Default	Default
Parking Lot	Default	Default	Default	Default	Default
User Defined (WWTP)	1.32	3.7	3.08	0	0

Notes: Casino, Event Center, Convention energy use based on CalEEMod default values for quality restaurant energy use. WWTP energy use based on CalEEMod default values for general light industrial. No natural gas use expected.

Alternative A – Off-Road Equipment Mitigation Inputs

Equipment Type	Engine Tier	Number of Equipment Mitigated	Diesel Particulate Filter (DPF) Level 2014
Welders, Air Compressors, Concrete/Industrial Saws	No Change	0	No Change
All Other Equipment	Tier 4	All	3

Mitigation Measures incorporated into EIS

- The Tribe shall use Tier 4 construction equipment for diesel equipment with a horsepower rating of greater than 50.
- 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
User Defined Industrial	18.90	User Defined Unit	0.00	18,900.00	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/MW hr)	203.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See input tables for assumptions.

Construction Phase - See input tables for assumptions.

Trips and VMT -

Demolition -

Grading - See input tables for assumptions.

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

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

Vehicle Trips - See input tables for assumptions.

Area Coating -

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 - See detailed assumptions.

Stationary Sources - Process Boilers -

Stationary Sources - Emergency Generators and Fire Pumps EF - Based on generator specifications.

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	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	NumberOfEquipmentMitigated	0.00	1.00

Koi Nation Shiloh Resort and Casino - Alt A - 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	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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	200.00
tblConstructionPhase	NumDays	75.00	90.00
tblEnergyUse	LightingElect	0.00	6.78
tblEnergyUse	LightingElect	0.00	3.08
tblEnergyUse	NT24E	0.00	23.69
tblEnergyUse	NT24E	0.00	3.70

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

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

tblEnergyUse	NT24NG	4.75	0.00
tblEnergyUse	T24E	0.00	7.35
tblEnergyUse	T24E	0.00	1.32
tblEnergyUse	T24NG	39.16	0.00
tblGrading	MaterialImported	0.00	10,000.00
tblLandUse	LandUseSquareFeet	0.00	410,572.00
tblLandUse	LandUseSquareFeet	0.00	74,185.00
tblLandUse	LandUseSquareFeet	0.00	18,900.00
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
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
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.05
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,367.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	2,447.00

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

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

tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	2,447.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	60.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	48.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	Load_Factor	0.73	0.50
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	4.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	5.00
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	0.00
tblWater	IndoorWaterUseRate	0.00	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, Annual

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	0.2661	2.1424	2.4225	8.2700e-003	0.7399	0.0610	0.8008	0.2593	0.0567	0.3160	0.0000	764.1026	764.1026	0.0822	0.0523	781.7329
2027	5.2040	5.4238	8.3959	0.0262	1.8855	0.1516	2.0371	0.5034	0.1417	0.6450	0.0000	2,418.9528	2,418.9528	0.2098	0.1576	2,471.1492
Maximum	5.2040	5.4238	8.3959	0.0262	1.8855	0.1516	2.0371	0.5034	0.1417	0.6450	0.0000	2,418.9528	2,418.9528	0.2098	0.1576	2,471.1492

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	0.1757	1.0996	2.6400	8.2700e-003	0.5555	0.0119	0.5674	0.1771	0.0116	0.1887	0.0000	764.1023	764.1023	0.0822	0.0523	781.7326
2027	5.0724	3.8853	8.7391	0.0262	1.8855	0.0717	1.9572	0.5034	0.0683	0.5717	0.0000	2,418.9520	2,418.9520	0.2098	0.1576	2,471.1485
Maximum	5.0724	3.8853	8.7391	0.0262	1.8855	0.0717	1.9572	0.5034	0.0683	0.5717	0.0000	2,418.9520	2,418.9520	0.2098	0.1576	2,471.1485

Koi Nation Shiloh Resort and Casino - Alt A - 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
Percent Reduction	4.06	34.12	-5.18	0.00	7.02	60.65	11.04	10.78	59.72	20.88	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	1.2103	0.3572
2	10-1-2026	12-31-2026	1.2073	0.9297
3	1-1-2027	3-31-2027	1.3435	1.0590
4	4-1-2027	6-30-2027	3.0149	2.5874
5	7-1-2027	9-30-2027	3.3069	2.7663
		Highest	3.3069	2.7663

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

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	3.5666	2.0000e-004	0.0216	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0421	0.0421	1.1000e-004	0.0000	0.0449
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2,127.8979	2,127.8979	0.3443	0.0417	2,148.9390
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	0.5353	0.2625	1.3650	2.5700e-003		0.0263	0.0263		0.0263	0.0263	0.0000	248.4342	248.4342	0.0348	0.0000	249.3050
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	24.2633	37.7229	256.5427	0.6283	73.1508	0.5345	73.6853	19.6012	0.5026	20.1038	409.2253	60,223.9634	60,633.1887	28.1758	2.6397	62,124.2194

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

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	3.5219	2.0000e-004	0.0216	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0421	0.0421	1.1000e-004	0.0000	0.0449
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2,035.1094	2,035.1094	0.3292	0.0399	2,055.2330
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	0.5353	0.2625	1.3650	2.5700e-003		0.0263	0.0263		0.0263	0.0263	0.0000	248.4342	248.4342	0.0348	0.0000	249.3050
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	19.6856	31.0651	50.7507	2.0269	0.0484	115.8323
Total	24.2185	37.7229	256.5427	0.6283	73.1508	0.5345	73.6853	19.6012	0.5026	20.1038	214.4554	60,131.1750	60,345.6304	16.6502	2.6379	61,547.9795

	ROG	NOx	CO	SO2	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	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.59	0.15	0.47	40.91	0.07	0.93

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

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	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): 22.5

Acres of Grading (Grading Phase): 120

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,158,881; Non-Residential Outdoor: 386,294; Striped Parking Area: 101,364 (Architectural Coating – sqft)

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

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
Architectural Coating	Pavers	2	8.00	130	0.42
Architectural Coating	Paving Equipment	2	8.00	132	0.36
Architectural Coating	Rollers	2	8.00	80	0.38

Trips and VMT

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

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

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
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	986.00	404.00	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	7	197.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	7	197.00	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, Annual

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	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

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

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

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	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	3.4700e-003	0.0200	0.1153	1.9000e-004		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	16.9988	16.9988	4.7500e-003	0.0000	17.1175
Total	3.4700e-003	0.0200	0.1153	1.9000e-004	1.4200e-003	5.0000e-004	1.9200e-003	2.1000e-004	5.0000e-004	7.1000e-004	0.0000	16.9988	16.9988	4.7500e-003	0.0000	17.1175

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

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

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	tons/yr										MT/yr					
Fugitive Dust					0.1474	0.0000	0.1474	0.0758	0.0000	0.0758	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	0.1474	8.1500e-003	0.1556	0.0758	7.5000e-003	0.0833	0.0000	25.1002	25.1002	8.1200e-003	0.0000	25.3032

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

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

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	tons/yr										MT/yr					
Fugitive Dust					0.0663	0.0000	0.0663	0.0341	0.0000	0.0341	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4900e-003	0.0151	0.1565	2.9000e-004		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	25.1002	25.1002	8.1200e-003	0.0000	25.3032
Total	3.4900e-003	0.0151	0.1565	2.9000e-004	0.0663	7.0000e-005	0.0664	0.0341	7.0000e-005	0.0342	0.0000	25.1002	25.1002	8.1200e-003	0.0000	25.3032

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

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

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	tons/yr										MT/yr					
Fugitive Dust					0.1846	0.0000	0.1846	0.0732	0.0000	0.0732	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	0.1846	0.0226	0.2073	0.0732	0.0208	0.0940	0.0000	109.0124	109.0124	0.0353	0.0000	109.8939

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

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

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	tons/yr										MT/yr					
Fugitive Dust					0.0831	0.0000	0.0831	0.0329	0.0000	0.0329	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0152	0.0660	0.6600	1.2400e-003		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	109.0123	109.0123	0.0353	0.0000	109.8937
Total	0.0152	0.0660	0.6600	1.2400e-003	0.0831	3.0000e-004	0.0834	0.0329	3.0000e-004	0.0332	0.0000	109.0123	109.0123	0.0353	0.0000	109.8937

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

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

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

3.5 Building Construction - 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

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	0.0143	0.6630	0.1841	2.7200e-003	0.0913	3.4500e-003	0.0948	0.0264	3.3000e-003	0.0297	0.0000	264.8888	264.8888	5.4200e-003	0.0401	276.9632
Worker	0.1091	0.0656	0.8278	2.3800e-003	0.2979	1.5300e-003	0.2995	0.0793	1.4100e-003	0.0807	0.0000	218.4417	218.4417	6.3900e-003	6.2600e-003	220.4681
Total	0.1234	0.7286	1.0119	5.1000e-003	0.3892	4.9800e-003	0.3942	0.1057	4.7100e-003	0.1104	0.0000	483.3305	483.3305	0.0118	0.0463	497.4313

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

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

3.5 Building Construction - 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	tons/yr										MT/yr					
Off-Road	0.0271	0.1803	0.6629	1.0400e-003		5.4100e-003	5.4100e-003		5.4100e-003	5.4100e-003	0.0000	89.2889	89.2889	0.0210	0.0000	89.8136
Total	0.0271	0.1803	0.6629	1.0400e-003		5.4100e-003	5.4100e-003		5.4100e-003	5.4100e-003	0.0000	89.2889	89.2889	0.0210	0.0000	89.8136

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	0.0143	0.6630	0.1841	2.7200e-003	0.0913	3.4500e-003	0.0948	0.0264	3.3000e-003	0.0297	0.0000	264.8888	264.8888	5.4200e-003	0.0401	276.9632
Worker	0.1091	0.0656	0.8278	2.3800e-003	0.2979	1.5300e-003	0.2995	0.0793	1.4100e-003	0.0807	0.0000	218.4417	218.4417	6.3900e-003	6.2600e-003	220.4681
Total	0.1234	0.7286	1.0119	5.1000e-003	0.3892	4.9800e-003	0.3942	0.1057	4.7100e-003	0.1104	0.0000	483.3305	483.3305	0.0118	0.0463	497.4313

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

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

3.5 Building Construction - 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

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	0.0464	2.1946	0.6063	8.9300e-003	0.3059	0.0114	0.3173	0.0885	0.0109	0.0993	0.0000	869.9786	869.9786	0.0185	0.1316	909.6435
Worker	0.3425	0.1990	2.6006	7.7400e-003	0.9982	4.7900e-003	1.0030	0.2657	4.4100e-003	0.2701	0.0000	710.2180	710.2180	0.0195	0.0198	716.5990
Total	0.3889	2.3936	3.2069	0.0167	1.3042	0.0162	1.3203	0.3542	0.0153	0.3694	0.0000	1,580.1966	1,580.1966	0.0380	0.1513	1,626.2425

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

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

3.5 Building Construction - 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	tons/yr										MT/yr					
Off-Road	0.0909	0.6041	2.2211	3.4800e-003		0.0181	0.0181		0.0181	0.0181	0.0000	299.1757	299.1757	0.0703	0.0000	300.9339
Total	0.0909	0.6041	2.2211	3.4800e-003		0.0181	0.0181		0.0181	0.0181	0.0000	299.1757	299.1757	0.0703	0.0000	300.9339

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	0.0464	2.1946	0.6063	8.9300e-003	0.3059	0.0114	0.3173	0.0885	0.0109	0.0993	0.0000	869.9786	869.9786	0.0185	0.1316	909.6435
Worker	0.3425	0.1990	2.6006	7.7400e-003	0.9982	4.7900e-003	1.0030	0.2657	4.4100e-003	0.2701	0.0000	710.2180	710.2180	0.0195	0.0198	716.5990
Total	0.3889	2.3936	3.2069	0.0167	1.3042	0.0162	1.3203	0.3542	0.0153	0.3694	0.0000	1,580.1966	1,580.1966	0.0380	0.1513	1,626.2425

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

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	tons/yr										MT/yr					
Archit. Coating	4.3809					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1086	0.9727	1.6387	2.5800e-003		0.0470	0.0470		0.0437	0.0437	0.0000	225.7251	225.7251	0.0661	0.0000	227.3786
Total	4.4895	0.9727	1.6387	2.5800e-003		0.0470	0.0470		0.0437	0.0437	0.0000	225.7251	225.7251	0.0661	0.0000	227.3786

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	0.1061	0.0617	0.8056	2.4000e-003	0.5761	1.4800e-003	0.5775	0.1478	1.3700e-003	0.1492	0.0000	219.9993	219.9993	6.0500e-003	6.1300e-003	221.9759
Total	0.1061	0.0617	0.8056	2.4000e-003	0.5761	1.4800e-003	0.5775	0.1478	1.3700e-003	0.1492	0.0000	219.9993	219.9993	6.0500e-003	6.1300e-003	221.9759

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

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	tons/yr										MT/yr					
Archit. Coating	4.3809					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0769	0.6044	1.7746	2.5800e-003		0.0264	0.0264		0.0247	0.0247	0.0000	225.7248	225.7248	0.0661	0.0000	227.3783
Total	4.4578	0.6044	1.7746	2.5800e-003		0.0264	0.0264		0.0247	0.0247	0.0000	225.7248	225.7248	0.0661	0.0000	227.3783

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	0.1061	0.0617	0.8056	2.4000e-003	0.5761	1.4800e-003	0.5775	0.1478	1.3700e-003	0.1492	0.0000	219.9993	219.9993	6.0500e-003	6.1300e-003	221.9759
Total	0.1061	0.0617	0.8056	2.4000e-003	0.5761	1.4800e-003	0.5775	0.1478	1.3700e-003	0.1492	0.0000	219.9993	219.9993	6.0500e-003	6.1300e-003	221.9759

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

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	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

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

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

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	tons/yr										MT/yr					
Off-Road	0.0269	0.2204	0.7172	1.0300e-003		9.5400e-003	9.5400e-003		8.7900e-003	8.7900e-003	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	0.0269	0.2204	0.7172	1.0300e-003		9.5400e-003	9.5400e-003		8.7900e-003	8.7900e-003	0.0000	90.0865	90.0865	0.0291	0.0000	90.8149

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

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

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	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	57,816.52 41	57,816.52 41	2.7485	2.5496	58,645.03 02
Unmitigated	20.1613	37.4602	255.1561	0.6258	73.1508	0.5081	73.6589	19.6012	0.4763	20.0775	0.0000	57,816.52 41	57,816.52 41	2.7485	2.5496	58,645.03 02

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
User Defined Industrial	0.00	0.00	0.00		
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, Annual

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
User Defined Industrial	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
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
User Defined Industrial	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, 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	1.99008e+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
User Defined Industrial	153090	14.1645	2.2900e-003	2.8000e-004	14.3045
Total		2,127.8979	0.3443	0.0417	2,148.9390

Koi Nation Shiloh Resort and Casino - Alt A - 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

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e 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
User Defined Industrial	143776	13.3027	2.1500e-003	2.6000e-004	13.4343
Total		2,035.1094	0.3292	0.0399	2,055.2330

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, 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	3.5219	2.0000e-004	0.0216	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0421	0.0421	1.1000e-004	0.0000	0.0449
Unmitigated	3.5666	2.0000e-004	0.0216	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0421	0.0421	1.1000e-004	0.0000	0.0449

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	0.4381					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.1265					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.9900e-003	2.0000e-004	0.0216	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0421	0.0421	1.1000e-004	0.0000	0.0449
Total	3.5666	2.0000e-004	0.0216	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0421	0.0421	1.1000e-004	0.0000	0.0449

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

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3933					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.1265					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.9900e-003	2.0000e-004	0.0216	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0421	0.0421	1.1000e-004	0.0000	0.0449
Total	3.5219	2.0000e-004	0.0216	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0421	0.0421	1.1000e-004	0.0000	0.0449

7.0 Water Detail

7.1 Mitigation Measures Water

Koi Nation Shiloh Resort and Casino - Alt A - 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/yr			
Mitigated	50.7507	2.0269	0.0484	115.8323
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	0 / 0	0.0000	0.0000	0.0000	0.0000
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	62.05 / 0	50.7507	2.0269	0.0484	115.8323
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		50.7507	2.0269	0.0484	115.8323

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

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	0 / 0	0.0000	0.0000	0.0000	0.0000
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	62.05 / 0	50.7507	2.0269	0.0484	115.8323
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		50.7507	2.0269	0.0484	115.8323

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Koi Nation Shiloh Resort and Casino - Alt A - 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	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
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		389.5397	23.0211	0.0000	965.0680

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

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

8.2 Waste by Land Use

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
User Defined Industrial	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	48	2447	0.73	Diesel
Emergency Generator	5	0	12	2447	0.5	Diesel
Emergency Generator	1	0	60	1367	0.73	Diesel

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

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	0	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)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Emergency Generator - Diesel (750 - 9999 HP)	0.5353	0.2625	1.3650	2.5700e-003		0.0263	0.0263		0.0263	0.0263	0.0000	248.4342	248.4342	0.0348	0.0000	249.3050
Total	0.5353	0.2625	1.3650	2.5700e-003		0.0263	0.0263		0.0263	0.0263	0.0000	248.4342	248.4342	0.0348	0.0000	249.3050

11.0 Vegetation

Koi Nation Shiloh Resort and Casino - Alt A - 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	-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

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

Koi Nation Shiloh Resort and Casino - Alt A

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	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
User Defined Industrial	18.90	User Defined Unit	0.00	18,900.00	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.

Trips and VMT -

Demolition -

Grading - See input tables for assumptions.

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

Vehicle Trips - See input tables for assumptions.

Area Coating -

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 - See detailed assumptions.

Stationary Sources - Process Boilers -

Stationary Sources - Emergency Generators and Fire Pumps EF - Based on generator specifications.

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	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	NumberOfEquipmentMitigated	0.00	1.00

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

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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	200.00
tblConstructionPhase	NumDays	75.00	90.00
tblEnergyUse	LightingElect	0.00	6.78
tblEnergyUse	LightingElect	0.00	3.08
tblEnergyUse	NT24E	0.00	23.69
tblEnergyUse	NT24E	0.00	3.70

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

tblEnergyUse	NT24NG	4.75	0.00
tblEnergyUse	T24E	0.00	7.35
tblEnergyUse	T24E	0.00	1.32
tblEnergyUse	T24NG	39.16	0.00
tblGrading	MaterialImported	0.00	10,000.00
tblLandUse	LandUseSquareFeet	0.00	410,572.00
tblLandUse	LandUseSquareFeet	0.00	74,185.00
tblLandUse	LandUseSquareFeet	0.00	18,900.00
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
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
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.05
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,367.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	2,447.00

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

tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	2,447.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	60.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	48.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	Load_Factor	0.73	0.50
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	4.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	5.00
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	0.00
tblWater	IndoorWaterUseRate	0.00	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	4.6876	44.8698	43.5812	0.1630	20.6083	1.9437	22.5520	10.2835	1.7957	12.0792	0.0000	16,747.5589	16,747.5589	2.2514	1.3118	17,161.6857
2027	51.4446	49.1989	81.8663	0.2345	16.7346	1.5566	18.2912	4.4380	1.4503	5.8883	0.0000	23,756.8302	23,756.8302	2.4227	1.3442	24,217.9696
Maximum	51.4446	49.1989	81.8663	0.2345	20.6083	1.9437	22.5520	10.2835	1.7957	12.0792	0.0000	23,756.8302	23,756.8302	2.4227	1.3442	24,217.9696

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	4.0247	22.8817	44.7881	0.1630	10.5621	0.2698	10.8318	4.6746	0.2628	4.7887	0.0000	16,747.5589	16,747.5589	2.2514	1.3118	17,161.6857
2027	50.1469	34.0461	85.7175	0.2345	16.7346	0.7567	17.4914	4.4380	0.7153	5.1533	0.0000	23,756.8302	23,756.8302	2.4227	1.3442	24,217.9696
Maximum	50.1469	34.0461	85.7175	0.2345	16.7346	0.7567	17.4914	4.6746	0.7153	5.1533	0.0000	23,756.8302	23,756.8302	2.4227	1.3442	24,217.9696

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
Percent Reduction	3.49	39.48	-4.03	0.00	26.90	70.67	30.65	38.10	69.87	44.67	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	19.5544	2.1800e-003	0.2402	2.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		0.5162	0.5162	1.3400e-003		0.5497
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	161.2807	243.7021	1,834.1785	4.5549	532.8814	3.5428	536.4242	142.2596	3.3206	145.5803		463,723.5627	463,723.5627	20.7316	18.8473	469,858.3327

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	19.3091	2.1800e-003	0.2402	2.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		0.5162	0.5162	1.3400e-003		0.5497
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	161.0354	243.7021	1,834.1785	4.5549	532.8814	3.5428	536.4242	142.2596	3.3206	145.5803		463,723.5627	463,723.5627	20.7316	18.8473	469,858.3327

	ROG	NOx	CO	SO2	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	

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	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): 22.5

Acres of Grading (Grading Phase): 120

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,158,881; Non-Residential Outdoor: 386,294; 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
Architectural Coating	Air Compressors	1	6.00	78	0.48
Architectural Coating	Pavers	2	8.00	130	0.42
Architectural Coating	Paving Equipment	2	8.00	132	0.36

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	Rollers	2	8.00	80	0.38
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
Building Construction	9	986.00	404.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	7	197.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	7	197.00	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 - 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	0.6948	4.0014	23.0661	0.0388		0.1008	0.1008		0.1008	0.1008	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
Total	0.6948	4.0014	23.0661	0.0388	0.2835	0.1008	0.3843	0.0429	0.1008	0.1437	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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			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	19.6570	1.0868	20.7438	10.1025	0.9999	11.1023		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					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		9.3100e-003	9.3100e-003		9.3100e-003	9.3100e-003	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	0.4656	2.0175	20.8690	0.0381	8.8457	9.3100e-003	8.8550	4.5461	9.3100e-003	4.5554	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					9.2319	0.0000	9.2319	3.6580	0.0000	3.6580			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	9.2319	1.1309	10.3628	3.6580	1.0404	4.6985		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					4.1543	0.0000	4.1543	1.6461	0.0000	1.6461			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.0152	0.0152		0.0152	0.0152	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	0.7616	3.3000	32.9991	0.0621	4.1543	0.0152	4.1696	1.6461	0.0152	1.6614	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	0.3776	16.6812	4.7151	0.0706	2.4623	0.0894	2.5517	0.7080	0.0855	0.7936		7,579.931 5	7,579.931 5	0.1557	1.1459	7,925.305 9
Worker	2.9426	1.5173	22.7815	0.0654	8.0998	0.0397	8.1395	2.1484	0.0366	2.1850		6,611.153 0	6,611.153 0	0.1714	0.1659	6,664.881 7
Total	3.3202	18.1985	27.4966	0.1360	10.5621	0.1291	10.6912	2.8565	0.1221	2.9786		14,191.08 45	14,191.08 45	0.3271	1.3118	14,590.18 76

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

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	0.7044	4.6832	17.2182	0.0270		0.1406	0.1406		0.1406	0.1406	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.7044	4.6832	17.2182	0.0270		0.1406	0.1406		0.1406	0.1406	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	0.3776	16.6812	4.7151	0.0706	2.4623	0.0894	2.5517	0.7080	0.0855	0.7936		7,579.931 5	7,579.931 5	0.1557	1.1459	7,925.305 9
Worker	2.9426	1.5173	22.7815	0.0654	8.0998	0.0397	8.1395	2.1484	0.0366	2.1850		6,611.153 0	6,611.153 0	0.1714	0.1659	6,664.881 7
Total	3.3202	18.1985	27.4966	0.1360	10.5621	0.1291	10.6912	2.8565	0.1221	2.9786		14,191.08 45	14,191.08 45	0.3271	1.3118	14,590.18 76

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	0.3663	16.4768	4.6337	0.0692	2.4621	0.0879	2.5500	0.7080	0.0841	0.7921		7,429.763 2	7,429.763 2	0.1583	1.1230	7,768.378 5
Worker	2.7568	1.3738	21.3336	0.0635	8.0998	0.0371	8.1369	2.1484	0.0342	2.1826		6,414.763 5	6,414.763 5	0.1560	0.1563	6,465.251 9
Total	3.1232	17.8506	25.9673	0.1327	10.5619	0.1250	10.6869	2.8564	0.1183	2.9747		13,844.52 68	13,844.52 68	0.3143	1.2794	14,233.63 04

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	0.7044	4.6832	17.2182	0.0270		0.1406	0.1406		0.1406	0.1406	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.7044	4.6832	17.2182	0.0270		0.1406	0.1406		0.1406	0.1406	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	0.3663	16.4768	4.6337	0.0692	2.4621	0.0879	2.5500	0.7080	0.0841	0.7921		7,429.763 2	7,429.763 2	0.1583	1.1230	7,768.378 5
Worker	2.7568	1.3738	21.3336	0.0635	8.0998	0.0371	8.1369	2.1484	0.0342	2.1826		6,414.763 5	6,414.763 5	0.1560	0.1563	6,465.251 9
Total	3.1232	17.8506	25.9673	0.1327	10.5619	0.1250	10.6869	2.8564	0.1183	2.9747		13,844.52 68	13,844.52 68	0.3143	1.2794	14,233.63 04

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	43.8093					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	1.0860	9.7271	16.3871	0.0258		0.4700	0.4700		0.4366	0.4366		2,488.193 2	2,488.193 2	0.7291		2,506.419 7
Total	44.8953	9.7271	16.3871	0.0258		0.4700	0.4700		0.4366	0.4366		2,488.193 2	2,488.193 2	0.7291		2,506.419 7

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1016	0.5490	8.5248	0.0254	6.0495	0.0148	6.0644	1.5490	0.0137	1.5626		2,563.303 1	2,563.303 1	0.0623	0.0625	2,583.477 9
Total	1.1016	0.5490	8.5248	0.0254	6.0495	0.0148	6.0644	1.5490	0.0137	1.5626		2,563.303 1	2,563.303 1	0.0623	0.0625	2,583.477 9

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	43.8093					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.7687	6.0440	17.7460	0.0258		0.2636	0.2636		0.2468	0.2468	0.0000	2,488.193 2	2,488.193 2	0.7291		2,506.419 7
Total	44.5780	6.0440	17.7460	0.0258		0.2636	0.2636		0.2468	0.2468	0.0000	2,488.193 2	2,488.193 2	0.7291		2,506.419 7

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1016	0.5490	8.5248	0.0254	6.0495	0.0148	6.0644	1.5490	0.0137	1.5626		2,563.303 1	2,563.303 1	0.0623	0.0625	2,583.477 9
Total	1.1016	0.5490	8.5248	0.0254	6.0495	0.0148	6.0644	1.5490	0.0137	1.5626		2,563.303 1	2,563.303 1	0.0623	0.0625	2,583.477 9

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	0.5978	4.8985	15.9368	0.0228		0.2121	0.2121		0.1953	0.1953	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	0.5978	4.8985	15.9368	0.0228		0.2121	0.2121		0.1953	0.1953	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
User Defined Industrial	0.00	0.00	0.00		
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
User Defined Industrial	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
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
User Defined Industrial	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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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	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
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 Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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	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
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 Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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	19.3091	2.1800e-003	0.2402	2.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		0.5162	0.5162	1.3400e-003		0.5497
Unmitigated	19.5544	2.1800e-003	0.2402	2.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		0.5162	0.5162	1.3400e-003		0.5497

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	2.4005					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	17.1318					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0221	2.1800e-003	0.2402	2.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		0.5162	0.5162	1.3400e-003		0.5497
Total	19.5544	2.1800e-003	0.2402	2.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		0.5162	0.5162	1.3400e-003		0.5497

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	2.1552					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	17.1318					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0221	2.1800e-003	0.2402	2.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		0.5162	0.5162	1.3400e-003		0.5497
Total	19.3091	2.1800e-003	0.2402	2.0000e-005		8.5000e-004	8.5000e-004		8.5000e-004	8.5000e-004		0.5162	0.5162	1.3400e-003		0.5497

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 - 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	48	2447	0.73	Diesel
Emergency Generator	5	0	12	2447	0.5	Diesel
Emergency Generator	1	0	60	1367	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	0	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)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

11.0 Vegetation

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

Koi Nation Shiloh Resort and Casino - Alt A - 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 - 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
User Defined Industrial	18.90	User Defined Unit	0.00	18,900.00	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	2040
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	203.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See input tables for assumptions.

Construction Phase - See input tables for assumptions.

Trips and VMT -

Demolition -

Grading - See input tables for assumptions.

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

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

Vehicle Trips - See input tables for assumptions.

Area Coating -

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 - See detailed assumptions.

Stationary Sources - Process Boilers -

Stationary Sources - Emergency Generators and Fire Pumps EF - Based on generator specifications.

Table Name	Column Name	Default Value	New Value
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	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00

Koi Nation Shiloh Resort and Casino - Alt A - 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	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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	200.00
tblConstructionPhase	NumDays	75.00	90.00
tblEnergyUse	LightingElect	0.00	6.78
tblEnergyUse	LightingElect	0.00	3.08
tblEnergyUse	NT24E	0.00	23.69
tblEnergyUse	NT24E	0.00	3.70
tblEnergyUse	NT24NG	4.75	0.00

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

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

tblEnergyUse	T24E	0.00	7.35
tblEnergyUse	T24E	0.00	1.32
tblEnergyUse	T24NG	39.16	0.00
tblGrading	MaterialImported	0.00	10,000.00
tblLandUse	LandUseSquareFeet	0.00	410,572.00
tblLandUse	LandUseSquareFeet	0.00	74,185.00
tblLandUse	LandUseSquareFeet	0.00	18,900.00
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
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
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.05
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,367.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	2,447.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	2,447.00

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

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

tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	60.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	48.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	Load_Factor	0.73	0.50
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	4.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	5.00
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	0.00
tblWater	IndoorWaterUseRate	0.00	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, Annual

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	0.2661	2.1424	2.4225	8.2700e-003	0.7399	0.0610	0.8008	0.2593	0.0567	0.3160	0.0000	764.1026	764.1026	0.0822	0.0523	781.7329
2027	5.2040	5.4238	8.3959	0.0262	1.8855	0.1516	2.0371	0.5034	0.1417	0.6450	0.0000	2,418.9528	2,418.9528	0.2098	0.1576	2,471.1492
Maximum	5.2040	5.4238	8.3959	0.0262	1.8855	0.1516	2.0371	0.5034	0.1417	0.6450	0.0000	2,418.9528	2,418.9528	0.2098	0.1576	2,471.1492

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	0.1757	1.0996	2.6400	8.2700e-003	0.5555	0.0119	0.5674	0.1771	0.0116	0.1887	0.0000	764.1023	764.1023	0.0822	0.0523	781.7326
2027	5.0724	3.8853	8.7391	0.0262	1.8855	0.0717	1.9572	0.5034	0.0683	0.5717	0.0000	2,418.9520	2,418.9520	0.2098	0.1576	2,471.1485
Maximum	5.0724	3.8853	8.7391	0.0262	1.8855	0.0717	1.9572	0.5034	0.0683	0.5717	0.0000	2,418.9520	2,418.9520	0.2098	0.1576	2,471.1485

Koi Nation Shiloh Resort and Casino - Alt A - 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
Percent Reduction	4.06	34.12	-5.18	0.00	7.02	60.65	11.04	10.78	59.72	20.88	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	1.2103	0.3572
2	10-1-2026	12-31-2026	1.2073	0.9297
3	1-1-2027	3-31-2027	1.3435	1.0590
4	4-1-2027	6-30-2027	3.0149	2.5874
5	7-1-2027	9-30-2027	3.3069	2.7663
		Highest	3.3069	2.7663

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

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	3.5666	1.9000e-004	0.0215	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0421	0.0421	1.1000e-004	0.0000	0.0449
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2,127.8979	2,127.8979	0.3443	0.0417	2,148.9390
Mobile	15.0144	22.5659	191.0389	0.5073	72.9892	0.2603	73.2495	19.5332	0.2439	19.7771	0.0000	46,873.1400	46,873.1400	2.1114	1.9569	47,509.0646
Stationary	0.5353	0.2625	1.3650	2.5700e-003		0.0263	0.0263		0.0263	0.0263	0.0000	248.4342	248.4342	0.0348	0.0000	249.3050
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	19.1164	22.8286	192.4254	0.5099	72.9892	0.2866	73.2759	19.5332	0.2702	19.8034	409.2253	49,280.5794	49,689.8046	27.5386	2.0469	50,988.2538

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

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	3.5666	1.9000e-004	0.0215	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0421	0.0421	1.1000e-004	0.0000	0.0449
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2,035.1094	2,035.1094	0.3292	0.0399	2,055.2330
Mobile	15.0144	22.5659	191.0389	0.5073	72.9892	0.2603	73.2495	19.5332	0.2439	19.7771	0.0000	46,873.1400	46,873.1400	2.1114	1.9569	47,509.0646
Stationary	0.5353	0.2625	1.3650	2.5700e-003		0.0263	0.0263		0.0263	0.0263	0.0000	248.4342	248.4342	0.0348	0.0000	249.3050
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	19.6856	31.0651	50.7507	2.0269	0.0484	115.8323
Total	19.1164	22.8286	192.4254	0.5099	72.9892	0.2866	73.2759	19.5332	0.2702	19.8034	214.4554	49,187.7909	49,402.2463	16.0131	2.0451	50,412.0139

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.59	0.19	0.58	41.85	0.09	1.13

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

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	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): 22.5

Acres of Grading (Grading Phase): 120

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,158,881; Non-Residential Outdoor: 386,294; Striped Parking Area: 101,364 (Architectural Coating – sqft)

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

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
Architectural Coating	Pavers	2	8.00	130	0.42
Architectural Coating	Paving Equipment	2	8.00	132	0.36
Architectural Coating	Rollers	2	8.00	80	0.38

Trips and VMT

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

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

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
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	986.00	404.00	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	7	197.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	7	197.00	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, Annual

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	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

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

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

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	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	3.4700e-003	0.0200	0.1153	1.9000e-004		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	16.9988	16.9988	4.7500e-003	0.0000	17.1175
Total	3.4700e-003	0.0200	0.1153	1.9000e-004	1.4200e-003	5.0000e-004	1.9200e-003	2.1000e-004	5.0000e-004	7.1000e-004	0.0000	16.9988	16.9988	4.7500e-003	0.0000	17.1175

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

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

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	tons/yr										MT/yr					
Fugitive Dust					0.1474	0.0000	0.1474	0.0758	0.0000	0.0758	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	0.1474	8.1500e-003	0.1556	0.0758	7.5000e-003	0.0833	0.0000	25.1002	25.1002	8.1200e-003	0.0000	25.3032

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

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

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	tons/yr										MT/yr					
Fugitive Dust					0.0663	0.0000	0.0663	0.0341	0.0000	0.0341	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4900e-003	0.0151	0.1565	2.9000e-004		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	25.1002	25.1002	8.1200e-003	0.0000	25.3032
Total	3.4900e-003	0.0151	0.1565	2.9000e-004	0.0663	7.0000e-005	0.0664	0.0341	7.0000e-005	0.0342	0.0000	25.1002	25.1002	8.1200e-003	0.0000	25.3032

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

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

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	tons/yr										MT/yr					
Fugitive Dust					0.1846	0.0000	0.1846	0.0732	0.0000	0.0732	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	0.1846	0.0226	0.2073	0.0732	0.0208	0.0940	0.0000	109.0124	109.0124	0.0353	0.0000	109.8939

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

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

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	tons/yr										MT/yr					
Fugitive Dust					0.0831	0.0000	0.0831	0.0329	0.0000	0.0329	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0152	0.0660	0.6600	1.2400e-003		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	109.0123	109.0123	0.0353	0.0000	109.8937
Total	0.0152	0.0660	0.6600	1.2400e-003	0.0831	3.0000e-004	0.0834	0.0329	3.0000e-004	0.0332	0.0000	109.0123	109.0123	0.0353	0.0000	109.8937

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

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

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

3.5 Building Construction - 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

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	0.0143	0.6630	0.1841	2.7200e-003	0.0913	3.4500e-003	0.0948	0.0264	3.3000e-003	0.0297	0.0000	264.8888	264.8888	5.4200e-003	0.0401	276.9632
Worker	0.1091	0.0656	0.8278	2.3800e-003	0.2979	1.5300e-003	0.2995	0.0793	1.4100e-003	0.0807	0.0000	218.4417	218.4417	6.3900e-003	6.2600e-003	220.4681
Total	0.1234	0.7286	1.0119	5.1000e-003	0.3892	4.9800e-003	0.3942	0.1057	4.7100e-003	0.1104	0.0000	483.3305	483.3305	0.0118	0.0463	497.4313

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

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

3.5 Building Construction - 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	tons/yr										MT/yr					
Off-Road	0.0271	0.1803	0.6629	1.0400e-003		5.4100e-003	5.4100e-003		5.4100e-003	5.4100e-003	0.0000	89.2889	89.2889	0.0210	0.0000	89.8136
Total	0.0271	0.1803	0.6629	1.0400e-003		5.4100e-003	5.4100e-003		5.4100e-003	5.4100e-003	0.0000	89.2889	89.2889	0.0210	0.0000	89.8136

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	0.0143	0.6630	0.1841	2.7200e-003	0.0913	3.4500e-003	0.0948	0.0264	3.3000e-003	0.0297	0.0000	264.8888	264.8888	5.4200e-003	0.0401	276.9632
Worker	0.1091	0.0656	0.8278	2.3800e-003	0.2979	1.5300e-003	0.2995	0.0793	1.4100e-003	0.0807	0.0000	218.4417	218.4417	6.3900e-003	6.2600e-003	220.4681
Total	0.1234	0.7286	1.0119	5.1000e-003	0.3892	4.9800e-003	0.3942	0.1057	4.7100e-003	0.1104	0.0000	483.3305	483.3305	0.0118	0.0463	497.4313

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

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

3.5 Building Construction - 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

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	0.0464	2.1946	0.6063	8.9300e-003	0.3059	0.0114	0.3173	0.0885	0.0109	0.0993	0.0000	869.9786	869.9786	0.0185	0.1316	909.6435
Worker	0.3425	0.1990	2.6006	7.7400e-003	0.9982	4.7900e-003	1.0030	0.2657	4.4100e-003	0.2701	0.0000	710.2180	710.2180	0.0195	0.0198	716.5990
Total	0.3889	2.3936	3.2069	0.0167	1.3042	0.0162	1.3203	0.3542	0.0153	0.3694	0.0000	1,580.1966	1,580.1966	0.0380	0.1513	1,626.2425

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

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

3.5 Building Construction - 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	tons/yr										MT/yr					
Off-Road	0.0909	0.6041	2.2211	3.4800e-003		0.0181	0.0181		0.0181	0.0181	0.0000	299.1757	299.1757	0.0703	0.0000	300.9339
Total	0.0909	0.6041	2.2211	3.4800e-003		0.0181	0.0181		0.0181	0.0181	0.0000	299.1757	299.1757	0.0703	0.0000	300.9339

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	0.0464	2.1946	0.6063	8.9300e-003	0.3059	0.0114	0.3173	0.0885	0.0109	0.0993	0.0000	869.9786	869.9786	0.0185	0.1316	909.6435
Worker	0.3425	0.1990	2.6006	7.7400e-003	0.9982	4.7900e-003	1.0030	0.2657	4.4100e-003	0.2701	0.0000	710.2180	710.2180	0.0195	0.0198	716.5990
Total	0.3889	2.3936	3.2069	0.0167	1.3042	0.0162	1.3203	0.3542	0.0153	0.3694	0.0000	1,580.1966	1,580.1966	0.0380	0.1513	1,626.2425

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

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	tons/yr										MT/yr					
Archit. Coating	4.3809					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1086	0.9727	1.6387	2.5800e-003		0.0470	0.0470		0.0437	0.0437	0.0000	225.7251	225.7251	0.0661	0.0000	227.3786
Total	4.4895	0.9727	1.6387	2.5800e-003		0.0470	0.0470		0.0437	0.0437	0.0000	225.7251	225.7251	0.0661	0.0000	227.3786

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	0.1061	0.0617	0.8056	2.4000e-003	0.5761	1.4800e-003	0.5775	0.1478	1.3700e-003	0.1492	0.0000	219.9993	219.9993	6.0500e-003	6.1300e-003	221.9759
Total	0.1061	0.0617	0.8056	2.4000e-003	0.5761	1.4800e-003	0.5775	0.1478	1.3700e-003	0.1492	0.0000	219.9993	219.9993	6.0500e-003	6.1300e-003	221.9759

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

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	tons/yr										MT/yr					
Archit. Coating	4.3809					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0769	0.6044	1.7746	2.5800e-003		0.0264	0.0264		0.0247	0.0247	0.0000	225.7248	225.7248	0.0661	0.0000	227.3783
Total	4.4578	0.6044	1.7746	2.5800e-003		0.0264	0.0264		0.0247	0.0247	0.0000	225.7248	225.7248	0.0661	0.0000	227.3783

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	0.1061	0.0617	0.8056	2.4000e-003	0.5761	1.4800e-003	0.5775	0.1478	1.3700e-003	0.1492	0.0000	219.9993	219.9993	6.0500e-003	6.1300e-003	221.9759
Total	0.1061	0.0617	0.8056	2.4000e-003	0.5761	1.4800e-003	0.5775	0.1478	1.3700e-003	0.1492	0.0000	219.9993	219.9993	6.0500e-003	6.1300e-003	221.9759

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

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	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

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

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

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	tons/yr										MT/yr					
Off-Road	0.0269	0.2204	0.7172	1.0300e-003		9.5400e-003	9.5400e-003		8.7900e-003	8.7900e-003	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	0.0269	0.2204	0.7172	1.0300e-003		9.5400e-003	9.5400e-003		8.7900e-003	8.7900e-003	0.0000	90.0865	90.0865	0.0291	0.0000	90.8149

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

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

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	tons/yr										MT/yr					
Mitigated	15.0144	22.5659	191.0389	0.5073	72.9892	0.2603	73.2495	19.5332	0.2439	19.7771	0.0000	46,873.1400	46,873.1400	2.1114	1.9569	47,509.0646
Unmitigated	15.0144	22.5659	191.0389	0.5073	72.9892	0.2603	73.2495	19.5332	0.2439	19.7771	0.0000	46,873.1400	46,873.1400	2.1114	1.9569	47,509.0646

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
User Defined Industrial	0.00	0.00	0.00		
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, Annual

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
User Defined Industrial	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hotel	0.607923	0.051236	0.156689	0.105527	0.021293	0.006087	0.015426	0.006394	0.001025	0.000244	0.024437	0.001187	0.002533
Parking Lot	0.607923	0.051236	0.156689	0.105527	0.021293	0.006087	0.015426	0.006394	0.001025	0.000244	0.024437	0.001187	0.002533
Unenclosed Parking with Elevator	0.607923	0.051236	0.156689	0.105527	0.021293	0.006087	0.015426	0.006394	0.001025	0.000244	0.024437	0.001187	0.002533
User Defined Commercial	0.607923	0.051236	0.156689	0.105527	0.021293	0.006087	0.015426	0.006394	0.001025	0.000244	0.024437	0.001187	0.002533
User Defined Industrial	0.607923	0.051236	0.156689	0.105527	0.021293	0.006087	0.015426	0.006394	0.001025	0.000244	0.024437	0.001187	0.002533

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, 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	1.99008e+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
User Defined Industrial	153090	14.1645	2.2900e-003	2.8000e-004	14.3045
Total		2,127.8979	0.3443	0.0417	2,148.9390

Koi Nation Shiloh Resort and Casino - Alt A - 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

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e 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
User Defined Industrial	143776	13.3027	2.1500e-003	2.6000e-004	13.4343
Total		2,035.1094	0.3292	0.0399	2,055.2330

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, 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	3.5666	1.9000e-004	0.0215	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0421	0.0421	1.1000e-004	0.0000	0.0449
Unmitigated	3.5666	1.9000e-004	0.0215	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0421	0.0421	1.1000e-004	0.0000	0.0449

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	0.4381					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.1265					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	0.0215	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0421	0.0421	1.1000e-004	0.0000	0.0449
Total	3.5666	1.9000e-004	0.0215	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0421	0.0421	1.1000e-004	0.0000	0.0449

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

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4381					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.1265					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	0.0215	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0421	0.0421	1.1000e-004	0.0000	0.0449
Total	3.5666	1.9000e-004	0.0215	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0421	0.0421	1.1000e-004	0.0000	0.0449

7.0 Water Detail

7.1 Mitigation Measures Water

Koi Nation Shiloh Resort and Casino - Alt A - 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/yr			
Mitigated	50.7507	2.0269	0.0484	115.8323
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	0 / 0	0.0000	0.0000	0.0000	0.0000
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	62.05 / 0	50.7507	2.0269	0.0484	115.8323
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		50.7507	2.0269	0.0484	115.8323

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

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	0 / 0	0.0000	0.0000	0.0000	0.0000
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	62.05 / 0	50.7507	2.0269	0.0484	115.8323
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		50.7507	2.0269	0.0484	115.8323

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Koi Nation Shiloh Resort and Casino - Alt A - 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	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
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		389.5397	23.0211	0.0000	965.0680

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

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

8.2 Waste by Land Use

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
User Defined Industrial	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
----------------	--------	-----------	-----------	-------------	-------------	-----------

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	48	2447	0.73	Diesel
Emergency Generator	5	0	12	2447	0.5	Diesel
Emergency Generator	1	0	60	1367	0.73	Diesel

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

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	0	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)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Emergency Generator - Diesel (750 - 9999 HP)	0.5353	0.2625	1.3650	2.5700e-003		0.0263	0.0263		0.0263	0.0263	0.0000	248.4342	248.4342	0.0348	0.0000	249.3050
Total	0.5353	0.2625	1.3650	2.5700e-003		0.0263	0.0263		0.0263	0.0263	0.0000	248.4342	248.4342	0.0348	0.0000	249.3050

11.0 Vegetation

Koi Nation Shiloh Resort and Casino - Alt A - 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	-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

Koi Nation Shiloh Resort and Casino - Alt A - 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 - 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
User Defined Industrial	18.90	User Defined Unit	0.00	18,900.00	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	2050
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	203.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See input tables for assumptions.

Construction Phase - See input tables for assumptions.

Trips and VMT -

Demolition -

Grading - See input tables for assumptions.

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

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

Vehicle Trips - See input tables for assumptions.

Area Coating -

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 - See detailed assumptions.

Stationary Sources - Process Boilers -

Stationary Sources - Emergency Generators and Fire Pumps EF - Based on generator specifications.

Table Name	Column Name	Default Value	New Value
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	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00

Koi Nation Shiloh Resort and Casino - Alt A - 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	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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	200.00
tblConstructionPhase	NumDays	75.00	90.00
tblEnergyUse	LightingElect	0.00	6.78
tblEnergyUse	LightingElect	0.00	3.08
tblEnergyUse	NT24E	0.00	23.69
tblEnergyUse	NT24E	0.00	3.70
tblEnergyUse	NT24NG	4.75	0.00

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

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

tblEnergyUse	T24E	0.00	7.35
tblEnergyUse	T24E	0.00	1.32
tblEnergyUse	T24NG	39.16	0.00
tblGrading	MaterialImported	0.00	10,000.00
tblLandUse	LandUseSquareFeet	0.00	410,572.00
tblLandUse	LandUseSquareFeet	0.00	74,185.00
tblLandUse	LandUseSquareFeet	0.00	18,900.00
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
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
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.05
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,367.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	2,447.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	2,447.00

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

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

tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	60.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	48.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	Load_Factor	0.73	0.50
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	4.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	5.00
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	0.00
tblWater	IndoorWaterUseRate	0.00	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, Annual

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	0.2661	2.1424	2.4225	8.2700e-003	0.7399	0.0610	0.8008	0.2593	0.0567	0.3160	0.0000	764.1026	764.1026	0.0822	0.0523	781.7329
2027	5.2040	5.4238	8.3959	0.0262	1.8855	0.1516	2.0371	0.5034	0.1417	0.6450	0.0000	2,418.9528	2,418.9528	0.2098	0.1576	2,471.1492
Maximum	5.2040	5.4238	8.3959	0.0262	1.8855	0.1516	2.0371	0.5034	0.1417	0.6450	0.0000	2,418.9528	2,418.9528	0.2098	0.1576	2,471.1492

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	0.1757	1.0996	2.6400	8.2700e-003	0.5555	0.0119	0.5674	0.1771	0.0116	0.1887	0.0000	764.1023	764.1023	0.0822	0.0523	781.7326
2027	5.0724	3.8853	8.7391	0.0262	1.8855	0.0717	1.9572	0.5034	0.0683	0.5717	0.0000	2,418.9520	2,418.9520	0.2098	0.1576	2,471.1485
Maximum	5.0724	3.8853	8.7391	0.0262	1.8855	0.0717	1.9572	0.5034	0.0683	0.5717	0.0000	2,418.9520	2,418.9520	0.2098	0.1576	2,471.1485

Koi Nation Shiloh Resort and Casino - Alt A - 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
Percent Reduction	4.06	34.12	-5.18	0.00	7.02	60.65	11.04	10.78	59.72	20.88	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	1.2103	0.3572
2	10-1-2026	12-31-2026	1.2073	0.9297
3	1-1-2027	3-31-2027	1.3435	1.0590
4	4-1-2027	6-30-2027	3.0149	2.5874
5	7-1-2027	9-30-2027	3.3069	2.7663
		Highest	3.3069	2.7663

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

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	3.5666	1.9000e-004	0.0215	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0421	0.0421	1.1000e-004	0.0000	0.0449
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2,127.8979	2,127.8979	0.3443	0.0417	2,148.9390
Mobile	13.5624	20.5096	177.1446	0.4884	72.9234	0.2143	73.1376	19.5049	0.2006	19.7055	0.0000	45,115.5060	45,115.5060	1.9357	1.8614	45,718.5987
Stationary	0.5353	0.2625	1.3650	2.5700e-003		0.0263	0.0263		0.0263	0.0263	0.0000	248.4342	248.4342	0.0348	0.0000	249.3050
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	17.6643	20.7722	178.5311	0.4910	72.9234	0.2406	73.1640	19.5049	0.2269	19.7318	409.2253	47,522.9453	47,932.1706	27.3629	1.9515	49,197.7879

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

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	3.5666	1.9000e-004	0.0215	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0421	0.0421	1.1000e-004	0.0000	0.0449
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2,035.1094	2,035.1094	0.3292	0.0399	2,055.2330
Mobile	13.5624	20.5096	177.1446	0.4884	72.9234	0.2143	73.1376	19.5049	0.2006	19.7055	0.0000	45,115.5060	45,115.5060	1.9357	1.8614	45,718.5987
Stationary	0.5353	0.2625	1.3650	2.5700e-003		0.0263	0.0263		0.0263	0.0263	0.0000	248.4342	248.4342	0.0348	0.0000	249.3050
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	19.6856	31.0651	50.7507	2.0269	0.0484	115.8323
Total	17.6643	20.7722	178.5311	0.4910	72.9234	0.2406	73.1640	19.5049	0.2269	19.7318	214.4554	47,430.1569	47,644.6123	15.8374	1.9497	48,621.5480

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.59	0.20	0.60	42.12	0.09	1.17

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

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	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): 22.5

Acres of Grading (Grading Phase): 120

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,158,881; Non-Residential Outdoor: 386,294; Striped Parking Area: 101,364 (Architectural Coating – sqft)

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

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
Architectural Coating	Pavers	2	8.00	130	0.42
Architectural Coating	Paving Equipment	2	8.00	132	0.36
Architectural Coating	Rollers	2	8.00	80	0.38

Trips and VMT

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

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

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
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	986.00	404.00	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	7	197.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	7	197.00	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, Annual

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	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

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

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

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	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	3.4700e-003	0.0200	0.1153	1.9000e-004		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	16.9988	16.9988	4.7500e-003	0.0000	17.1175
Total	3.4700e-003	0.0200	0.1153	1.9000e-004	1.4200e-003	5.0000e-004	1.9200e-003	2.1000e-004	5.0000e-004	7.1000e-004	0.0000	16.9988	16.9988	4.7500e-003	0.0000	17.1175

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

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

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	tons/yr										MT/yr					
Fugitive Dust					0.1474	0.0000	0.1474	0.0758	0.0000	0.0758	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	0.1474	8.1500e-003	0.1556	0.0758	7.5000e-003	0.0833	0.0000	25.1002	25.1002	8.1200e-003	0.0000	25.3032

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

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

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	tons/yr										MT/yr					
Fugitive Dust					0.0663	0.0000	0.0663	0.0341	0.0000	0.0341	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4900e-003	0.0151	0.1565	2.9000e-004		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	25.1002	25.1002	8.1200e-003	0.0000	25.3032
Total	3.4900e-003	0.0151	0.1565	2.9000e-004	0.0663	7.0000e-005	0.0664	0.0341	7.0000e-005	0.0342	0.0000	25.1002	25.1002	8.1200e-003	0.0000	25.3032

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

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

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	tons/yr										MT/yr					
Fugitive Dust					0.1846	0.0000	0.1846	0.0732	0.0000	0.0732	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	0.1846	0.0226	0.2073	0.0732	0.0208	0.0940	0.0000	109.0124	109.0124	0.0353	0.0000	109.8939

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

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

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	tons/yr										MT/yr					
Fugitive Dust					0.0831	0.0000	0.0831	0.0329	0.0000	0.0329	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0152	0.0660	0.6600	1.2400e-003		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	109.0123	109.0123	0.0353	0.0000	109.8937
Total	0.0152	0.0660	0.6600	1.2400e-003	0.0831	3.0000e-004	0.0834	0.0329	3.0000e-004	0.0332	0.0000	109.0123	109.0123	0.0353	0.0000	109.8937

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

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

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

3.5 Building Construction - 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

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	0.0143	0.6630	0.1841	2.7200e-003	0.0913	3.4500e-003	0.0948	0.0264	3.3000e-003	0.0297	0.0000	264.8888	264.8888	5.4200e-003	0.0401	276.9632
Worker	0.1091	0.0656	0.8278	2.3800e-003	0.2979	1.5300e-003	0.2995	0.0793	1.4100e-003	0.0807	0.0000	218.4417	218.4417	6.3900e-003	6.2600e-003	220.4681
Total	0.1234	0.7286	1.0119	5.1000e-003	0.3892	4.9800e-003	0.3942	0.1057	4.7100e-003	0.1104	0.0000	483.3305	483.3305	0.0118	0.0463	497.4313

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

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

3.5 Building Construction - 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	tons/yr										MT/yr					
Off-Road	0.0271	0.1803	0.6629	1.0400e-003		5.4100e-003	5.4100e-003		5.4100e-003	5.4100e-003	0.0000	89.2889	89.2889	0.0210	0.0000	89.8136
Total	0.0271	0.1803	0.6629	1.0400e-003		5.4100e-003	5.4100e-003		5.4100e-003	5.4100e-003	0.0000	89.2889	89.2889	0.0210	0.0000	89.8136

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	0.0143	0.6630	0.1841	2.7200e-003	0.0913	3.4500e-003	0.0948	0.0264	3.3000e-003	0.0297	0.0000	264.8888	264.8888	5.4200e-003	0.0401	276.9632
Worker	0.1091	0.0656	0.8278	2.3800e-003	0.2979	1.5300e-003	0.2995	0.0793	1.4100e-003	0.0807	0.0000	218.4417	218.4417	6.3900e-003	6.2600e-003	220.4681
Total	0.1234	0.7286	1.0119	5.1000e-003	0.3892	4.9800e-003	0.3942	0.1057	4.7100e-003	0.1104	0.0000	483.3305	483.3305	0.0118	0.0463	497.4313

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

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

3.5 Building Construction - 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

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	0.0464	2.1946	0.6063	8.9300e-003	0.3059	0.0114	0.3173	0.0885	0.0109	0.0993	0.0000	869.9786	869.9786	0.0185	0.1316	909.6435
Worker	0.3425	0.1990	2.6006	7.7400e-003	0.9982	4.7900e-003	1.0030	0.2657	4.4100e-003	0.2701	0.0000	710.2180	710.2180	0.0195	0.0198	716.5990
Total	0.3889	2.3936	3.2069	0.0167	1.3042	0.0162	1.3203	0.3542	0.0153	0.3694	0.0000	1,580.1966	1,580.1966	0.0380	0.1513	1,626.2425

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

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

3.5 Building Construction - 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	tons/yr										MT/yr					
Off-Road	0.0909	0.6041	2.2211	3.4800e-003		0.0181	0.0181		0.0181	0.0181	0.0000	299.1757	299.1757	0.0703	0.0000	300.9339
Total	0.0909	0.6041	2.2211	3.4800e-003		0.0181	0.0181		0.0181	0.0181	0.0000	299.1757	299.1757	0.0703	0.0000	300.9339

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	0.0464	2.1946	0.6063	8.9300e-003	0.3059	0.0114	0.3173	0.0885	0.0109	0.0993	0.0000	869.9786	869.9786	0.0185	0.1316	909.6435
Worker	0.3425	0.1990	2.6006	7.7400e-003	0.9982	4.7900e-003	1.0030	0.2657	4.4100e-003	0.2701	0.0000	710.2180	710.2180	0.0195	0.0198	716.5990
Total	0.3889	2.3936	3.2069	0.0167	1.3042	0.0162	1.3203	0.3542	0.0153	0.3694	0.0000	1,580.1966	1,580.1966	0.0380	0.1513	1,626.2425

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

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	tons/yr										MT/yr					
Archit. Coating	4.3809					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1086	0.9727	1.6387	2.5800e-003		0.0470	0.0470		0.0437	0.0437	0.0000	225.7251	225.7251	0.0661	0.0000	227.3786
Total	4.4895	0.9727	1.6387	2.5800e-003		0.0470	0.0470		0.0437	0.0437	0.0000	225.7251	225.7251	0.0661	0.0000	227.3786

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	0.1061	0.0617	0.8056	2.4000e-003	0.5761	1.4800e-003	0.5775	0.1478	1.3700e-003	0.1492	0.0000	219.9993	219.9993	6.0500e-003	6.1300e-003	221.9759
Total	0.1061	0.0617	0.8056	2.4000e-003	0.5761	1.4800e-003	0.5775	0.1478	1.3700e-003	0.1492	0.0000	219.9993	219.9993	6.0500e-003	6.1300e-003	221.9759

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

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	tons/yr										MT/yr					
Archit. Coating	4.3809					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0769	0.6044	1.7746	2.5800e-003		0.0264	0.0264		0.0247	0.0247	0.0000	225.7248	225.7248	0.0661	0.0000	227.3783
Total	4.4578	0.6044	1.7746	2.5800e-003		0.0264	0.0264		0.0247	0.0247	0.0000	225.7248	225.7248	0.0661	0.0000	227.3783

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	0.1061	0.0617	0.8056	2.4000e-003	0.5761	1.4800e-003	0.5775	0.1478	1.3700e-003	0.1492	0.0000	219.9993	219.9993	6.0500e-003	6.1300e-003	221.9759
Total	0.1061	0.0617	0.8056	2.4000e-003	0.5761	1.4800e-003	0.5775	0.1478	1.3700e-003	0.1492	0.0000	219.9993	219.9993	6.0500e-003	6.1300e-003	221.9759

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

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	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

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

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

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	tons/yr										MT/yr					
Off-Road	0.0269	0.2204	0.7172	1.0300e-003		9.5400e-003	9.5400e-003		8.7900e-003	8.7900e-003	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	0.0269	0.2204	0.7172	1.0300e-003		9.5400e-003	9.5400e-003		8.7900e-003	8.7900e-003	0.0000	90.0865	90.0865	0.0291	0.0000	90.8149

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

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

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	tons/yr										MT/yr					
Mitigated	13.5624	20.5096	177.1446	0.4884	72.9234	0.2143	73.1376	19.5049	0.2006	19.7055	0.0000	45,115.50 60	45,115.50 60	1.9357	1.8614	45,718.59 87
Unmitigated	13.5624	20.5096	177.1446	0.4884	72.9234	0.2143	73.1376	19.5049	0.2006	19.7055	0.0000	45,115.50 60	45,115.50 60	1.9357	1.8614	45,718.59 87

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
User Defined Industrial	0.00	0.00	0.00		
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, Annual

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
User Defined Industrial	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hotel	0.616156	0.051063	0.155535	0.103256	0.019012	0.005633	0.015595	0.006508	0.001026	0.000227	0.022797	0.000869	0.002322
Parking Lot	0.616156	0.051063	0.155535	0.103256	0.019012	0.005633	0.015595	0.006508	0.001026	0.000227	0.022797	0.000869	0.002322
Unenclosed Parking with Elevator	0.616156	0.051063	0.155535	0.103256	0.019012	0.005633	0.015595	0.006508	0.001026	0.000227	0.022797	0.000869	0.002322
User Defined Commercial	0.616156	0.051063	0.155535	0.103256	0.019012	0.005633	0.015595	0.006508	0.001026	0.000227	0.022797	0.000869	0.002322
User Defined Industrial	0.616156	0.051063	0.155535	0.103256	0.019012	0.005633	0.015595	0.006508	0.001026	0.000227	0.022797	0.000869	0.002322

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, 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

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e 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
User Defined Industrial	153090	14.1645	2.2900e-003	2.8000e-004	14.3045
Total		2,127.8979	0.3443	0.0417	2,148.9390

Koi Nation Shiloh Resort and Casino - Alt A - 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

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e 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
User Defined Industrial	143776	13.3027	2.1500e-003	2.6000e-004	13.4343
Total		2,035.1094	0.3292	0.0399	2,055.2330

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, 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	3.5666	1.9000e-004	0.0215	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0421	0.0421	1.1000e-004	0.0000	0.0449
Unmitigated	3.5666	1.9000e-004	0.0215	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0421	0.0421	1.1000e-004	0.0000	0.0449

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	0.4381					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.1265					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	0.0215	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0421	0.0421	1.1000e-004	0.0000	0.0449
Total	3.5666	1.9000e-004	0.0215	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0421	0.0421	1.1000e-004	0.0000	0.0449

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

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4381					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.1265					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	0.0215	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0421	0.0421	1.1000e-004	0.0000	0.0449
Total	3.5666	1.9000e-004	0.0215	0.0000		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	0.0421	0.0421	1.1000e-004	0.0000	0.0449

7.0 Water Detail

7.1 Mitigation Measures Water

Koi Nation Shiloh Resort and Casino - Alt A - 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/yr			
Mitigated	50.7507	2.0269	0.0484	115.8323
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	0 / 0	0.0000	0.0000	0.0000	0.0000
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	62.05 / 0	50.7507	2.0269	0.0484	115.8323
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		50.7507	2.0269	0.0484	115.8323

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

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	0 / 0	0.0000	0.0000	0.0000	0.0000
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	62.05 / 0	50.7507	2.0269	0.0484	115.8323
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		50.7507	2.0269	0.0484	115.8323

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Koi Nation Shiloh Resort and Casino - Alt A - 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	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
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		389.5397	23.0211	0.0000	965.0680

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

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

8.2 Waste by Land Use

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
User Defined Industrial	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	48	2447	0.73	Diesel
Emergency Generator	5	0	12	2447	0.5	Diesel
Emergency Generator	1	0	60	1367	0.73	Diesel

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

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	0	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)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Emergency Generator - Diesel (750 - 9999 HP)	0.5353	0.2625	1.3650	2.5700e-003		0.0263	0.0263		0.0263	0.0263	0.0000	248.4342	248.4342	0.0348	0.0000	249.3050
Total	0.5353	0.2625	1.3650	2.5700e-003		0.0263	0.0263		0.0263	0.0263	0.0000	248.4342	248.4342	0.0348	0.0000	249.3050

11.0 Vegetation

Koi Nation Shiloh Resort and Casino - Alt A - 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	-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

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 Tier 4 1,650-KW (2,447 HP) emergency gen/sets operating 60 hours per year. One Tier 4 1,650-KW (2,447 HP) emergency gen/set operating 12 hours per year. One Tier 4 900-KW (1,367 HP) emergency gen/set operating 60 hours per year.	Section 2 of the EA/TEIR
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	--	--

Alternative B – Mitigation Inputs (cont.)

Mitigation Input	CAPCOA Mitigation	Include in Model?		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	--	--

Alternative B – Mitigation Inputs (cont.)

Mitigation Input	CAPCOA Mitigation	Include in Model?		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.	--	--

Alternative B – Mitigation Inputs (cont.)

Mitigation Input	CAPCOA Mitigation	Include in Model?	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

Table 1: 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	
Industrial	User Defined (WWTP)	18.9	Ksf	0	18,900	

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.

Table 2: 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

Table 3: 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.

Table 4: 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	0	0
Hotel	Default	Default	Default	0	0
Unenclosed Parking Structure with Elevator	Default	Default	Default	Default	Default
Parking Lot	Default	Default	Default	Default	Default
User Defined (WWTP)	1.32	3.7	3.08	0	0

Notes: Casino, Event Center, Convention energy use based on CalEEMod default values for quality restaurant energy use. WWTP energy use based on CalEEMod default values for general light industrial. No natural gas use expected.

Alternative B – Off-Road Equipment Mitigation Inputs

Equipment Type	Engine Tier	Number of Equipment Mitigated	Diesel Particulate Filter (DPF) Level 2014
Welders, Air Compressors, Concrete/Industrial Saws	No Change	0	No Change
All Other Equipment	Tier 4	All	3

Mitigation Measures incorporated into EA/TEIR

- The Tribe shall use Tier 4 construction equipment for diesel equipment with a horsepower rating of greater than 50.
- 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).

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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

Solano-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
User Defined Commercial	33.10	User Defined Unit	0.00	33,135.00	0
User Defined Industrial	18.90	User Defined Unit	0.00	18,900.00	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)	56
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.
- Construction Phase - See input tables.
- Trips and VMT - See input tables.
- Demolition -
- Grading -
- Vehicle Trips - See input tables.

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

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

Energy Use - See input tables.

Water And Wastewater - See input tables.

Solid Waste - See input tables.

Land Use Change -

Construction Off-road Equipment Mitigation - See input tables.

Area Mitigation - See input tables.

Water Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps - See input tables.

Stationary Sources - Emergency Generators and Fire Pumps EF - Tier 4 generators

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	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00

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

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

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	50.00	10.00
tblConstructionPhase	NumDays	30.00	15.00
tblConstructionPhase	NumDays	75.00	40.00
tblConstructionPhase	NumDays	740.00	335.00
tblConstructionPhase	NumDays	55.00	200.00
tblConstructionPhase	NumDays	55.00	90.00
tblEnergyUse	LightingElect	0.00	6.78
tblEnergyUse	LightingElect	0.00	3.08
tblEnergyUse	NT24E	0.00	23.69

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

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

tblEnergyUse	NT24E	0.00	3.70
tblEnergyUse	NT24NG	4.75	0.00
tblEnergyUse	T24E	0.00	7.35
tblEnergyUse	T24E	0.00	1.32
tblEnergyUse	T24NG	39.16	0.00
tblLandUse	LandUseSquareFeet	0.00	372,747.00
tblLandUse	LandUseSquareFeet	0.00	33,135.00
tblLandUse	LandUseSquareFeet	0.00	18,900.00
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	0.00
tblSolidWaste	SolidWasteGenerationRate	0.00	1,267.00
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.05
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,367.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	2,447.00

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

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

tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	2,447.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	60.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	60.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	Load_Factor	0.73	0.50
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	3.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,250.00
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	0.00
tblWater	IndoorWaterUseRate	0.00	42,705,000.00
tblWater	OutdoorWaterUseRate	563,706.00	0.00

2.0 Emissions Summary

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

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	0.2293	1.9869	2.1689	7.5500e-003	0.6831	0.0606	0.7436	0.2439	0.0563	0.3002	0.0000	691.4293	691.4293	0.0753	0.0423	705.9217
2027	3.8442	4.0530	5.6442	0.0203	1.2519	0.1072	1.3591	0.3390	0.1009	0.4399	0.0000	1,863.2414	1,863.2414	0.1217	0.1227	1,902.8396
Maximum	3.8442	4.0530	5.6442	0.0203	1.2519	0.1072	1.3591	0.3390	0.1009	0.4399	0.0000	1,863.2414	1,863.2414	0.1217	0.1227	1,902.8396

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	0.1312	0.8629	2.4015	7.5500e-003	0.4990	7.9000e-003	0.5069	0.1618	7.6300e-003	0.1694	0.0000	691.4291	691.4291	0.0753	0.0423	705.9215
2027	3.7042	2.4449	5.9639	0.0203	1.2519	0.0266	1.2785	0.3390	0.0258	0.3648	0.0000	1,863.2409	1,863.2409	0.1217	0.1227	1,902.8391
Maximum	3.7042	2.4449	5.9639	0.0203	1.2519	0.0266	1.2785	0.3390	0.0258	0.3648	0.0000	1,863.2409	1,863.2409	0.1217	0.1227	1,902.8391

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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
Percent Reduction	5.84	45.24	-7.07	0.00	9.51	79.44	15.09	14.09	78.74	27.82	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	1.1760	0.3106
2	10-1-2026	12-31-2026	1.0446	0.6910
3	1-1-2027	3-31-2027	1.1234	0.7775
4	4-1-2027	6-30-2027	2.1735	1.7780
5	7-1-2027	9-30-2027	2.4559	1.8394
		Highest	2.4559	1.8394

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

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	2.6658	4.0000e-004	0.0443	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0864	0.0864	2.2000e-004	0.0000	0.0920
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1,762.7393	1,762.7393	0.2852	0.0346	1,780.1696
Mobile	15.4393	27.0291	193.6518	0.5128	59.9390	0.3841	60.3232	16.0089	0.3600	16.3689	0.0000	47,348.6500	47,348.6500	2.1215	1.9884	47,994.2323
Stationary	0.4452	0.2183	1.1352	2.1400e-003		0.0218	0.0218		0.0218	0.0218	0.0000	206.6176	206.6176	0.0290	0.0000	207.3418
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	18.5503	27.2478	194.8313	0.5149	59.9390	0.4061	60.3452	16.0089	0.3820	16.3909	270.7379	49,339.4734	49,610.2113	19.0304	2.0563	50,698.7319

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

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	2.6326	4.0000e-004	0.0443	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0864	0.0864	2.2000e-004	0.0000	0.0920
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1,762.7393	1,762.7393	0.2852	0.0346	1,780.1696
Mobile	15.4393	27.0291	193.6518	0.5128	59.9390	0.3841	60.3232	16.0089	0.3600	16.3689	0.0000	47,348.6500	47,348.6500	2.1215	1.9884	47,994.2323
Stationary	0.4452	0.2183	1.1352	2.1400e-003		0.0218	0.0218		0.0218	0.0218	0.0000	206.6176	206.6176	0.0290	0.0000	207.3418
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	12.1935	19.2421	31.4356	1.2555	0.0300	71.7479
Total	18.5171	27.2478	194.8313	0.5149	59.9390	0.4061	60.3452	16.0089	0.3820	16.3909	140.7883	49,337.3354	49,478.1237	11.2911	2.0529	50,372.1718

	ROG	NOx	CO	SO2	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	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.00	0.00	0.27	40.67	0.16	0.64

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

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	-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	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): 22.5

Acres of Grading (Grading Phase): 120

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 858,243; Non-Residential Outdoor: 286,081; Striped Parking Area: 90,377 (Architectural Coating – sqft)

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

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	1,250.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

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

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

Building Construction	9	832.00	341.00	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	166.00	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

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

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 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	1.8300e-003	4.2000e-004	1.0000e-005	2.5000e-004	2.0000e-005	2.6000e-004	7.0000e-005	2.0000e-005	8.0000e-005	0.0000	0.7798	0.7798	0.0000	1.2000e-004	0.8165
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.0000e-004	1.3500e-003	0.0000	6.0000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4354	0.4354	1.0000e-005	1.0000e-005	0.4390
Total	2.0000e-004	1.9300e-003	1.7700e-003	1.0000e-005	8.5000e-004	2.0000e-005	8.6000e-004	2.3000e-004	2.0000e-005	2.4000e-004	0.0000	1.2153	1.2153	1.0000e-005	1.3000e-004	1.2555

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	3.4700e-003	0.0200	0.1153	1.9000e-004		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	16.9988	16.9988	4.7500e-003	0.0000	17.1175
Total	3.4700e-003	0.0200	0.1153	1.9000e-004	1.4200e-003	5.0000e-004	1.9200e-003	2.1000e-004	5.0000e-004	7.1000e-004	0.0000	16.9988	16.9988	4.7500e-003	0.0000	17.1175

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

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	1.8300e-003	4.2000e-004	1.0000e-005	2.5000e-004	2.0000e-005	2.6000e-004	7.0000e-005	2.0000e-005	8.0000e-005	0.0000	0.7798	0.7798	0.0000	1.2000e-004	0.8165
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7000e-004	1.0000e-004	1.3500e-003	0.0000	6.0000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4354	0.4354	1.0000e-005	1.0000e-005	0.4390
Total	2.0000e-004	1.9300e-003	1.7700e-003	1.0000e-005	8.5000e-004	2.0000e-005	8.6000e-004	2.3000e-004	2.0000e-005	2.4000e-004	0.0000	1.2153	1.2153	1.0000e-005	1.3000e-004	1.2555

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					0.1474	0.0000	0.1474	0.0758	0.0000	0.0758	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	0.1474	8.1500e-003	0.1556	0.0758	7.5000e-003	0.0833	0.0000	25.1002	25.1002	8.1200e-003	0.0000	25.3032

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

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 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	3.0000e-004	1.8000e-004	2.4300e-003	1.0000e-005	1.0700e-003	0.0000	1.0800e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.7838	0.7838	2.0000e-005	2.0000e-005	0.7902
Total	3.0000e-004	1.8000e-004	2.4300e-003	1.0000e-005	1.0700e-003	0.0000	1.0800e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.7838	0.7838	2.0000e-005	2.0000e-005	0.7902

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					0.0663	0.0000	0.0663	0.0341	0.0000	0.0341	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4900e-003	0.0151	0.1565	2.9000e-004		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	25.1002	25.1002	8.1200e-003	0.0000	25.3032
Total	3.4900e-003	0.0151	0.1565	2.9000e-004	0.0663	7.0000e-005	0.0664	0.0341	7.0000e-005	0.0342	0.0000	25.1002	25.1002	8.1200e-003	0.0000	25.3032

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

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 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	3.0000e-004	1.8000e-004	2.4300e-003	1.0000e-005	1.0700e-003	0.0000	1.0800e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.7838	0.7838	2.0000e-005	2.0000e-005	0.7902
Total	3.0000e-004	1.8000e-004	2.4300e-003	1.0000e-005	1.0700e-003	0.0000	1.0800e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.7838	0.7838	2.0000e-005	2.0000e-005	0.7902

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					0.1841	0.0000	0.1841	0.0731	0.0000	0.0731	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	0.1841	0.0226	0.2067	0.0731	0.0208	0.0939	0.0000	109.0124	109.0124	0.0353	0.0000	109.8939

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

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 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	1.3600e-003	0.0790	0.0180	3.5000e-004	0.0106	7.3000e-004	0.0114	2.9300e-003	7.0000e-004	3.6200e-003	0.0000	33.6131	33.6131	2.1000e-004	5.2900e-003	35.1942
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	9.0000e-004	5.4000e-004	7.2000e-003	3.0000e-005	3.1800e-003	1.0000e-005	3.1900e-003	8.4000e-004	1.0000e-005	8.6000e-004	0.0000	2.3224	2.3224	6.0000e-005	6.0000e-005	2.3413
Total	2.2600e-003	0.0795	0.0252	3.8000e-004	0.0138	7.4000e-004	0.0146	3.7700e-003	7.1000e-004	4.4800e-003	0.0000	35.9354	35.9354	2.7000e-004	5.3500e-003	37.5356

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					0.0828	0.0000	0.0828	0.0329	0.0000	0.0329	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0152	0.0660	0.6600	1.2400e-003		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	109.0123	109.0123	0.0353	0.0000	109.8937
Total	0.0152	0.0660	0.6600	1.2400e-003	0.0828	3.0000e-004	0.0831	0.0329	3.0000e-004	0.0332	0.0000	109.0123	109.0123	0.0353	0.0000	109.8937

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

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	1.3600e-003	0.0790	0.0180	3.5000e-004	0.0106	7.3000e-004	0.0114	2.9300e-003	7.0000e-004	3.6200e-003	0.0000	33.6131	33.6131	2.1000e-004	5.2900e-003	35.1942
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	9.0000e-004	5.4000e-004	7.2000e-003	3.0000e-005	3.1800e-003	1.0000e-005	3.1900e-003	8.4000e-004	1.0000e-005	8.6000e-004	0.0000	2.3224	2.3224	6.0000e-005	6.0000e-005	2.3413
Total	2.2600e-003	0.0795	0.0252	3.8000e-004	0.0138	7.4000e-004	0.0146	3.7700e-003	7.1000e-004	4.4800e-003	0.0000	35.9354	35.9354	2.7000e-004	5.3500e-003	37.5356

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

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

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

3.5 Building Construction - 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	0.0149	0.5377	0.1857	2.3700e-003	0.0783	3.3100e-003	0.0816	0.0227	3.1600e-003	0.0258	0.0000	227.1200	227.1200	1.3200e-003	0.0321	236.7177
Worker	0.0720	0.0434	0.5765	2.0300e-003	0.2544	1.1500e-003	0.2555	0.0676	1.0600e-003	0.0687	0.0000	185.9744	185.9744	4.6100e-003	4.7100e-003	187.4945
Total	0.0869	0.5810	0.7622	4.4000e-003	0.3327	4.4600e-003	0.3371	0.0903	4.2200e-003	0.0945	0.0000	413.0944	413.0944	5.9300e-003	0.0368	424.2122

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	0.0194	0.0991	0.6782	1.0400e-003		1.7900e-003	1.7900e-003		1.7900e-003	1.7900e-003	0.0000	89.2889	89.2889	0.0210	0.0000	89.8136
Total	0.0194	0.0991	0.6782	1.0400e-003		1.7900e-003	1.7900e-003		1.7900e-003	1.7900e-003	0.0000	89.2889	89.2889	0.0210	0.0000	89.8136

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

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

3.5 Building Construction - 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	0.0149	0.5377	0.1857	2.3700e-003	0.0783	3.3100e-003	0.0816	0.0227	3.1600e-003	0.0258	0.0000	227.1200	227.1200	1.3200e-003	0.0321	236.7177
Worker	0.0720	0.0434	0.5765	2.0300e-003	0.2544	1.1500e-003	0.2555	0.0676	1.0600e-003	0.0687	0.0000	185.9744	185.9744	4.6100e-003	4.7100e-003	187.4945
Total	0.0869	0.5810	0.7622	4.4000e-003	0.3327	4.4600e-003	0.3371	0.0903	4.2200e-003	0.0945	0.0000	413.0944	413.0944	5.9300e-003	0.0368	424.2122

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

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

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

3.5 Building Construction - 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	0.0489	1.7899	0.6111	7.8000e-003	0.2624	0.0110	0.2734	0.0759	0.0105	0.0864	0.0000	746.6668	746.6668	4.4000e-003	0.1053	778.1469
Worker	0.2265	0.1325	1.8272	6.5900e-003	0.8523	3.6300e-003	0.8559	0.2267	3.3400e-003	0.2300	0.0000	604.4844	604.4844	0.0141	0.0150	609.3052
Total	0.2754	1.9224	2.4383	0.0144	1.1147	0.0146	1.1293	0.3025	0.0139	0.3164	0.0000	1,351.1512	1,351.1512	0.0185	0.1203	1,387.4521

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	0.0650	0.3319	2.2723	3.4800e-003		6.0100e-003	6.0100e-003		6.0100e-003	6.0100e-003	0.0000	299.1757	299.1757	0.0703	0.0000	300.9339
Total	0.0650	0.3319	2.2723	3.4800e-003		6.0100e-003	6.0100e-003		6.0100e-003	6.0100e-003	0.0000	299.1757	299.1757	0.0703	0.0000	300.9339

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

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

3.5 Building Construction - 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	0.0489	1.7899	0.6111	7.8000e-003	0.2624	0.0110	0.2734	0.0759	0.0105	0.0864	0.0000	746.6668	746.6668	4.4000e-003	0.1053	778.1469
Worker	0.2265	0.1325	1.8272	6.5900e-003	0.8523	3.6300e-003	0.8559	0.2267	3.3400e-003	0.2300	0.0000	604.4844	604.4844	0.0141	0.0150	609.3052
Total	0.2754	1.9224	2.4383	0.0144	1.1147	0.0146	1.1293	0.3025	0.0139	0.3164	0.0000	1,351.1512	1,351.1512	0.0185	0.1203	1,387.4521

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	3.2976					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	3.3147	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

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

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 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	0.0350	0.0205	0.2826	1.0200e-003	0.1318	5.6000e-004	0.1324	0.0351	5.2000e-004	0.0356	0.0000	93.4932	93.4932	2.1900e-003	2.3200e-003	94.2388
Total	0.0350	0.0205	0.2826	1.0200e-003	0.1318	5.6000e-004	0.1324	0.0351	5.2000e-004	0.0356	0.0000	93.4932	93.4932	2.1900e-003	2.3200e-003	94.2388

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	3.2976					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	3.3147	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

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

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 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	0.0350	0.0205	0.2826	1.0200e-003	0.1318	5.6000e-004	0.1324	0.0351	5.2000e-004	0.0356	0.0000	93.4932	93.4932	2.1900e-003	2.3200e-003	94.2388
Total	0.0350	0.0205	0.2826	1.0200e-003	0.1318	5.6000e-004	0.1324	0.0351	5.2000e-004	0.0356	0.0000	93.4932	93.4932	2.1900e-003	2.3200e-003	94.2388

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

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

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 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	1.4200e-003	8.3000e-004	0.0115	4.0000e-005	5.3600e-003	2.0000e-005	5.3800e-003	1.4300e-003	2.0000e-005	1.4500e-003	0.0000	3.8017	3.8017	9.0000e-005	9.0000e-005	3.8320
Total	1.4200e-003	8.3000e-004	0.0115	4.0000e-005	5.3600e-003	2.0000e-005	5.3800e-003	1.4300e-003	2.0000e-005	1.4500e-003	0.0000	3.8017	3.8017	9.0000e-005	9.0000e-005	3.8320

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	0.0126	0.0547	0.7783	1.0300e-003		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	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	0.0126	0.0547	0.7783	1.0300e-003		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	90.0865	90.0865	0.0291	0.0000	90.8149

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

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 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	1.4200e-003	8.3000e-004	0.0115	4.0000e-005	5.3600e-003	2.0000e-005	5.3800e-003	1.4300e-003	2.0000e-005	1.4500e-003	0.0000	3.8017	3.8017	9.0000e-005	9.0000e-005	3.8320
Total	1.4200e-003	8.3000e-004	0.0115	4.0000e-005	5.3600e-003	2.0000e-005	5.3800e-003	1.4300e-003	2.0000e-005	1.4500e-003	0.0000	3.8017	3.8017	9.0000e-005	9.0000e-005	3.8320

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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	15.4393	27.0291	193.6518	0.5128	59.9390	0.3841	60.3232	16.0089	0.3600	16.3689	0.0000	47,348.6500	47,348.6500	2.1215	1.9884	47,994.2323
Unmitigated	15.4393	27.0291	193.6518	0.5128	59.9390	0.3841	60.3232	16.0089	0.3600	16.3689	0.0000	47,348.6500	47,348.6500	2.1215	1.9884	47,994.2323

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	10164.77	124,295,346	124,295,346
User Defined Commercial	1,777.80	2,744.32	2744.32	33,557,716	33,557,716
User Defined Industrial	0.00	0.00	0.00		
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
User Defined Industrial	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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
User Defined Industrial	153090	14.1645	2.2900e-003	2.8000e-004	14.3045
Total		1,762.7393	0.2852	0.0346	1,780.1696

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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
User Defined Industrial	153090	14.1645	2.2900e-003	2.8000e-004	14.3045
Total		1,762.7393	0.2852	0.0346	1,780.1696

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 - Solano-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	2.6326	4.0000e-004	0.0443	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0864	0.0864	2.2000e-004	0.0000	0.0920
Unmitigated	2.6658	4.0000e-004	0.0443	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0864	0.0864	2.2000e-004	0.0000	0.0920

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	0.3298					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3320					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0800e-003	4.0000e-004	0.0443	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0864	0.0864	2.2000e-004	0.0000	0.0920
Total	2.6658	4.0000e-004	0.0443	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0864	0.0864	2.2000e-004	0.0000	0.0920

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

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.2966					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3320					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0800e-003	4.0000e-004	0.0443	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0864	0.0864	2.2000e-004	0.0000	0.0920
Total	2.6326	4.0000e-004	0.0443	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0864	0.0864	2.2000e-004	0.0000	0.0920

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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/yr			
Mitigated	31.4356	1.2555	0.0300	71.7479
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	0 / 0	0.0000	0.0000	0.0000	0.0000
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	42.705 / 0	34.9284	1.3950	0.0333	79.7199
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		34.9284	1.3950	0.0333	79.7199

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

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	0 / 0	0.0000	0.0000	0.0000	0.0000
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	38.4345 / 0	31.4356	1.2555	0.0300	71.7479
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		31.4356	1.2555	0.0300	71.7479

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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	0	0.0000	0.0000	0.0000	0.0000
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	1267	257.1896	15.1995	0.0000	637.1762
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		257.1896	15.1995	0.0000	637.1762

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

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

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	0	0.0000	0.0000	0.0000	0.0000
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	633.5	128.5948	7.5997	0.0000	318.5881
User Defined Industrial	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
----------------	--------	-----------	-----------	-------------	-------------	-----------

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	60	2447	0.73	Diesel
Emergency Generator	1	0	12	2447	0.5	Diesel
Emergency Generator	1	0	60	1367	0.73	Diesel

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

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

Boilers

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

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					
Emergency Generator - Diesel (750 - 9999 HP)	0.4452	0.2183	1.1352	2.1400e-003		0.0218	0.0218		0.0218	0.0218	0.0000	206.6176	206.6176	0.0290	0.0000	207.3418
Total	0.4452	0.2183	1.1352	2.1400e-003		0.0218	0.0218		0.0218	0.0218	0.0000	206.6176	206.6176	0.0290	0.0000	207.3418

11.0 Vegetation

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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 - Solano-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

Solano-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
User Defined Industrial	18.90	User Defined Unit	0.00	18,900.00	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)	56
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.

Construction Phase - See input tables.

Trips and VMT - See input tables.

Demolition -

Grading -

Vehicle Trips - See input tables.

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

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

Energy Use - See input tables.

Water And Wastewater - See input tables.

Solid Waste - See input tables.

Land Use Change -

Construction Off-road Equipment Mitigation - See input tables.

Area Mitigation - See input tables.

Water Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps - See input tables.

Stationary Sources - Emergency Generators and Fire Pumps EF - Tier 4 generators

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	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00

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

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

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	50.00	10.00
tblConstructionPhase	NumDays	30.00	15.00
tblConstructionPhase	NumDays	75.00	40.00
tblConstructionPhase	NumDays	740.00	335.00
tblConstructionPhase	NumDays	55.00	200.00
tblConstructionPhase	NumDays	55.00	90.00
tblEnergyUse	LightingElect	0.00	6.78
tblEnergyUse	LightingElect	0.00	3.08
tblEnergyUse	NT24E	0.00	23.69

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

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

tblEnergyUse	NT24E	0.00	3.70
tblEnergyUse	NT24NG	4.75	0.00
tblEnergyUse	T24E	0.00	7.35
tblEnergyUse	T24E	0.00	1.32
tblEnergyUse	T24NG	39.16	0.00
tblLandUse	LandUseSquareFeet	0.00	372,747.00
tblLandUse	LandUseSquareFeet	0.00	33,135.00
tblLandUse	LandUseSquareFeet	0.00	18,900.00
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	0.00
tblSolidWaste	SolidWasteGenerationRate	0.00	1,267.00
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.05
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,367.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	2,447.00

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

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

tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	2,447.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	60.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	60.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	Load_Factor	0.73	0.50
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	3.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,250.00
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	0.00
tblWater	IndoorWaterUseRate	0.00	42,705,000.00
tblWater	OutdoorWaterUseRate	563,706.00	0.00

2.0 Emissions Summary

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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	4.6528	44.8197	38.0600	0.1451	20.6089	1.9441	22.5530	10.2837	1.7961	12.0798	0.0000	14,769.23 11	14,769.23 11	2.2455	1.0424	15,098.90 87
2027	38.1524	36.5922	55.8859	0.1799	10.4126	1.1169	11.5295	2.8095	1.0457	3.8552	0.0000	18,169.65 88	18,169.65 88	1.5049	1.0425	18,517.93 77
Maximum	38.1524	44.8197	55.8859	0.1799	20.6089	1.9441	22.5530	10.2837	1.7961	12.0798	0.0000	18,169.65 88	18,169.65 88	2.2455	1.0425	18,517.93 77

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	2.9418	16.9425	44.6649	0.1451	9.4511	0.1622	9.5657	4.6749	0.1561	4.7893	0.0000	14,769.23 11	14,769.23 11	2.2455	1.0424	15,098.90 87
2027	36.6541	19.3290	60.1340	0.1799	10.4126	0.2230	10.6356	2.8095	0.2166	3.0261	0.0000	18,169.65 88	18,169.65 88	1.5049	1.0425	18,517.93 77
Maximum	36.6541	19.3290	60.1340	0.1799	10.4126	0.2230	10.6356	4.6749	0.2166	4.7893	0.0000	18,169.65 88	18,169.65 88	2.2455	1.0425	18,517.93 77

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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	7.50	55.45	-11.55	0.00	35.97	87.42	40.73	42.84	86.89	50.95	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	14.6301	4.4600e-003	0.4924	4.0000e-005		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003		1.0583	1.0583	2.7500e-003		1.1271
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	115.4469	181.6535	1,496.3111	3.9626	452.5136	2.8071	455.3207	120.5364	2.6311	123.1674		403,171.4263	403,171.4263	16.8468	15.3732	408,173.8000
Stationary	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	130.0770	181.6579	1,496.8035	3.9626	452.5136	2.8089	455.3225	120.5364	2.6328	123.1692		403,172.4846	403,172.4846	16.8495	15.3732	408,174.9271

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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	14.4484	4.4600e-003	0.4924	4.0000e-005		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003		1.0583	1.0583	2.7500e-003		1.1271
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	115.4469	181.6535	1,496.3111	3.9626	452.5136	2.8071	455.3207	120.5364	2.6311	123.1674		403,171.4263	403,171.4263	16.8468	15.3732	408,173.8000
Stationary	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	129.8953	181.6579	1,496.8035	3.9626	452.5136	2.8089	455.3225	120.5364	2.6328	123.1692		403,172.4846	403,172.4846	16.8495	15.3732	408,174.9271

	ROG	NOx	CO	SO2	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 - Alternative B - Solano-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): 22.5

Acres of Grading (Grading Phase): 120

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 858,243; Non-Residential Outdoor: 286,081; 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
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 B - Solano-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	1,250.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	832.00	341.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	166.00	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 B - Solano-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	6.5300e-003	0.3494	0.0828	1.6200e-003	0.0508	3.3800e-003	0.0542	0.0139	3.2400e-003	0.0172		171.8223	171.8223	1.0900e-003	0.0270	179.9047
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	0.0368	0.0181	0.2941	1.0200e-003	0.1232	5.4000e-004	0.1238	0.0327	4.9000e-004	0.0332		103.0498	103.0498	2.2200e-003	2.2600e-003	103.7777
Total	0.0433	0.3675	0.3769	2.6400e-003	0.1741	3.9200e-003	0.1780	0.0466	3.7300e-003	0.0504		274.8720	274.8720	3.3100e-003	0.0293	283.6824

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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	0.6948	4.0014	23.0661	0.0388		0.1008	0.1008		0.1008	0.1008	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
Total	0.6948	4.0014	23.0661	0.0388	0.2835	0.1008	0.3843	0.0429	0.1008	0.1437	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	6.5300e-003	0.3494	0.0828	1.6200e-003	0.0508	3.3800e-003	0.0542	0.0139	3.2400e-003	0.0172		171.8223	171.8223	1.0900e-003	0.0270	179.9047
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	0.0368	0.0181	0.2941	1.0200e-003	0.1232	5.4000e-004	0.1238	0.0327	4.9000e-004	0.0332		103.0498	103.0498	2.2200e-003	2.2600e-003	103.7777
Total	0.0433	0.3675	0.3769	2.6400e-003	0.1741	3.9200e-003	0.1780	0.0466	3.7300e-003	0.0504		274.8720	274.8720	3.3100e-003	0.0293	283.6824

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			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	19.6570	1.0868	20.7438	10.1025	0.9999	11.1023		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	0.0441	0.0217	0.3529	1.2200e-003	0.1479	6.4000e-004	0.1485	0.0392	5.9000e-004	0.0398		123.6598	123.6598	2.6600e-003	2.7100e-003	124.5332
Total	0.0441	0.0217	0.3529	1.2200e-003	0.1479	6.4000e-004	0.1485	0.0392	5.9000e-004	0.0398		123.6598	123.6598	2.6600e-003	2.7100e-003	124.5332

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		9.3100e-003	9.3100e-003		9.3100e-003	9.3100e-003	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	0.4656	2.0175	20.8690	0.0381	8.8457	9.3100e-003	8.8550	4.5461	9.3100e-003	4.5554	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	0.0441	0.0217	0.3529	1.2200e-003	0.1479	6.4000e-004	0.1485	0.0392	5.9000e-004	0.0398		123.6598	123.6598	2.6600e-003	2.7100e-003	124.5332
Total	0.0441	0.0217	0.3529	1.2200e-003	0.1479	6.4000e-004	0.1485	0.0392	5.9000e-004	0.0398		123.6598	123.6598	2.6600e-003	2.7100e-003	124.5332

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			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	9.2036	1.1309	10.3345	3.6538	1.0404	4.6942		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	0.0704	3.7650	0.8921	0.0174	0.5478	0.0364	0.5842	0.1503	0.0349	0.1851		1,851.5328	1,851.5328	0.0117	0.2913	1,938.6285
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	0.0491	0.0242	0.3921	1.3600e-003	0.1643	7.2000e-004	0.1650	0.0436	6.6000e-004	0.0442		137.3997	137.3997	2.9600e-003	3.0100e-003	138.3702
Total	0.1194	3.7892	1.2842	0.0188	0.7121	0.0372	0.7492	0.1938	0.0355	0.2294		1,988.9325	1,988.9325	0.0147	0.2943	2,076.9987

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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					4.1416	0.0000	4.1416	1.6442	0.0000	1.6442			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.0152	0.0152		0.0152	0.0152	0.0000	6,008.2814	6,008.2814	1.9432		6,056.8614
Total	0.7616	3.3000	32.9991	0.0621	4.1416	0.0152	4.1568	1.6442	0.0152	1.6594	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	0.0704	3.7650	0.8921	0.0174	0.5478	0.0364	0.5842	0.1503	0.0349	0.1851		1,851.5328	1,851.5328	0.0117	0.2913	1,938.6285
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	0.0491	0.0242	0.3921	1.3600e-003	0.1643	7.2000e-004	0.1650	0.0436	6.6000e-004	0.0442		137.3997	137.3997	2.9600e-003	3.0100e-003	138.3702
Total	0.1194	3.7892	1.2842	0.0188	0.7121	0.0372	0.7492	0.1938	0.0355	0.2294		1,988.9325	1,988.9325	0.0147	0.2943	2,076.9987

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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	0.3977	13.3651	4.7370	0.0616	2.0910	0.0858	2.1768	0.6022	0.0821	0.6843		6,496.928 5	6,496.928 5	0.0381	0.9172	6,771.209 8
Worker	2.0403	1.0046	16.3130	0.0566	6.8347	0.0298	6.8645	1.8129	0.0274	1.8403		5,715.828 2	5,715.828 2	0.1230	0.1252	5,756.200 9
Total	2.4380	14.3697	21.0500	0.1181	8.9257	0.1156	9.0413	2.4151	0.1095	2.5246		12,212.75 67	12,212.75 67	0.1611	1.0424	12,527.41 06

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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	0.5038	2.5728	17.6150	0.0270		0.0466	0.0466		0.0466	0.0466	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.5038	2.5728	17.6150	0.0270		0.0466	0.0466		0.0466	0.0466	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	0.3977	13.3651	4.7370	0.0616	2.0910	0.0858	2.1768	0.6022	0.0821	0.6843		6,496.928 5	6,496.928 5	0.0381	0.9172	6,771.209 8
Worker	2.0403	1.0046	16.3130	0.0566	6.8347	0.0298	6.8645	1.8129	0.0274	1.8403		5,715.828 2	5,715.828 2	0.1230	0.1252	5,756.200 9
Total	2.4380	14.3697	21.0500	0.1181	8.9257	0.1156	9.0413	2.4151	0.1095	2.5246		12,212.75 67	12,212.75 67	0.1611	1.0424	12,527.41 06

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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	0.3901	13.2796	4.6515	0.0604	2.0911	0.0851	2.1761	0.6022	0.0814	0.6836		6,374.533 4	6,374.533 4	0.0380	0.8978	6,643.034 8
Worker	1.9157	0.9164	15.4101	0.0549	6.8347	0.0281	6.8628	1.8129	0.0259	1.8388		5,544.305 0	5,544.305 0	0.1124	0.1188	5,582.518 9
Total	2.3058	14.1960	20.0617	0.1153	8.9257	0.1132	9.0389	2.4151	0.1073	2.5224		11,918.83 84	11,918.83 84	0.1504	1.0166	12,225.55 38

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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	0.5038	2.5728	17.6150	0.0270		0.0466	0.0466		0.0466	0.0466	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.5038	2.5728	17.6150	0.0270		0.0466	0.0466		0.0466	0.0466	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	0.3901	13.2796	4.6515	0.0604	2.0911	0.0851	2.1761	0.6022	0.0814	0.6836		6,374.533 4	6,374.533 4	0.0380	0.8978	6,643.034 8
Worker	1.9157	0.9164	15.4101	0.0549	6.8347	0.0281	6.8628	1.8129	0.0259	1.8388		5,544.305 0	5,544.305 0	0.1124	0.1188	5,582.518 9
Total	2.3058	14.1960	20.0617	0.1153	8.9257	0.1132	9.0389	2.4151	0.1073	2.5224		11,918.83 84	11,918.83 84	0.1504	1.0166	12,225.55 38

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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	32.9764					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	33.1473	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	0.3822	0.1828	3.0746	0.0109	1.3637	5.6200e-003	1.3693	0.3617	5.1700e-003	0.3669		1,106.1955	1,106.1955	0.0224	0.0237	1,113.8199
Total	0.3822	0.1828	3.0746	0.0109	1.3637	5.6200e-003	1.3693	0.3617	5.1700e-003	0.3669		1,106.1955	1,106.1955	0.0224	0.0237	1,113.8199

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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	32.9764					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	33.1473	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	0.3822	0.1828	3.0746	0.0109	1.3637	5.6200e-003	1.3693	0.3617	5.1700e-003	0.3669		1,106.1955	1,106.1955	0.0224	0.0237	1,113.8199
Total	0.3822	0.1828	3.0746	0.0109	1.3637	5.6200e-003	1.3693	0.3617	5.1700e-003	0.3669		1,106.1955	1,106.1955	0.0224	0.0237	1,113.8199

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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		2,206.7452	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	0.0345	0.0165	0.2778	9.9000e-004	0.1232	5.1000e-004	0.1237	0.0327	4.7000e-004	0.0332		99.9574	99.9574	2.0300e-003	2.1400e-003	100.6464
Total	0.0345	0.0165	0.2778	9.9000e-004	0.1232	5.1000e-004	0.1237	0.0327	4.7000e-004	0.0332		99.9574	99.9574	2.0300e-003	2.1400e-003	100.6464

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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	0.2805	1.2154	17.2957	0.0228		5.6100e-003	5.6100e-003		5.6100e-003	5.6100e-003	0.0000	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	0.2805	1.2154	17.2957	0.0228		5.6100e-003	5.6100e-003		5.6100e-003	5.6100e-003	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878

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	0.0345	0.0165	0.2778	9.9000e-004	0.1232	5.1000e-004	0.1237	0.0327	4.7000e-004	0.0332		99.9574	99.9574	2.0300e-003	2.1400e-003	100.6464
Total	0.0345	0.0165	0.2778	9.9000e-004	0.1232	5.1000e-004	0.1237	0.0327	4.7000e-004	0.0332		99.9574	99.9574	2.0300e-003	2.1400e-003	100.6464

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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	115.4469	181.6535	1,496.311 1	3.9626	452.5136	2.8071	455.3207	120.5364	2.6311	123.1674		403,171.4 263	403,171.4 263	16.8468	15.3732	408,173.8 000
Unmitigated	115.4469	181.6535	1,496.311 1	3.9626	452.5136	2.8071	455.3207	120.5364	2.6311	123.1674		403,171.4 263	403,171.4 263	16.8468	15.3732	408,173.8 000

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
User Defined Industrial	0.00	0.00	0.00		
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

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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 Industrial	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hotel	0.574494	0.053520	0.164411	0.120035	0.024142	0.006389	0.008007	0.015461	0.001089	0.000375	0.027458	0.000780	0.003840
Parking Lot	0.574494	0.053520	0.164411	0.120035	0.024142	0.006389	0.008007	0.015461	0.001089	0.000375	0.027458	0.000780	0.003840
Unenclosed Parking with Elevator	0.574494	0.053520	0.164411	0.120035	0.024142	0.006389	0.008007	0.015461	0.001089	0.000375	0.027458	0.000780	0.003840
User Defined Commercial	0.574494	0.053520	0.164411	0.120035	0.024142	0.006389	0.008007	0.015461	0.001089	0.000375	0.027458	0.000780	0.003840
User Defined Industrial	0.574494	0.053520	0.164411	0.120035	0.024142	0.006389	0.008007	0.015461	0.001089	0.000375	0.027458	0.000780	0.003840

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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	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
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 Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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	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
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 Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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 - Solano-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	14.4484	4.4600e-003	0.4924	4.0000e-005		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003		1.0583	1.0583	2.7500e-003		1.1271
Unmitigated	14.6301	4.4600e-003	0.4924	4.0000e-005		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003		1.0583	1.0583	2.7500e-003		1.1271

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	1.8069					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.7778					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0453	4.4600e-003	0.4924	4.0000e-005		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003		1.0583	1.0583	2.7500e-003		1.1271
Total	14.6301	4.4600e-003	0.4924	4.0000e-005		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003		1.0583	1.0583	2.7500e-003		1.1271

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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	1.6253					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	12.7778					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0453	4.4600e-003	0.4924	4.0000e-005		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003		1.0583	1.0583	2.7500e-003		1.1271
Total	14.4484	4.4600e-003	0.4924	4.0000e-005		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003		1.0583	1.0583	2.7500e-003		1.1271

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 - Alternative B - Solano-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	60	2447	0.73	Diesel
Emergency Generator	1	0	12	2447	0.5	Diesel
Emergency Generator	1	0	60	1367	0.73	Diesel

Boilers

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

Equipment Type	Number
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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					
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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

11.0 Vegetation

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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

Solano-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
User Defined Commercial	33.10	User Defined Unit	0.00	33,135.00	0
User Defined Industrial	18.90	User Defined Unit	0.00	18,900.00	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)	56
Climate Zone	4			Operational Year	2040
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.
- Construction Phase - See input tables.
- Grading -
- Demolition -
- Trips and VMT - See input tables.
- Vehicle Trips - See input tables.

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

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

Energy Use - See input tables.

Water And Wastewater - See input tables.

Solid Waste - See input tables.

Stationary Sources - Emergency Generators and Fire Pumps - See input tables.

Land Use Change -

Construction Off-road Equipment Mitigation - See input tables.

Area Mitigation - See input tables.

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
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	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

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

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

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblEnergyUse	LightingElect	0.00	6.78
tblEnergyUse	LightingElect	0.00	3.08
tblEnergyUse	NT24E	0.00	23.69
tblEnergyUse	NT24E	0.00	3.70
tblEnergyUse	NT24NG	4.75	0.00
tblEnergyUse	T24E	0.00	7.35
tblEnergyUse	T24E	0.00	1.32
tblEnergyUse	T24NG	39.16	0.00
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	LandUseSquareFeet	0.00	372,747.00
tblLandUse	LandUseSquareFeet	0.00	33,135.00

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

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

tblLandUse	LandUseSquareFeet	0.00	18,900.00
tblLandUse	LotAcreage	6.92	0.00
tblLandUse	LotAcreage	33.23	0.00
tblLandUse	LotAcreage	6.67	0.00
tblLandUse	LotAcreage	0.00	46.80
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	109.50	0.00
tblSolidWaste	SolidWasteGenerationRate	0.00	1,267.00
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	2,447.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	2,447.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,367.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	60.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	60.00
tblStationaryGeneratorsPumpsUse	Load_Factor	0.73	0.50
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	3.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripNumber	0.00	1,250.00
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

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

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

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	0.00
tblWater	IndoorWaterUseRate	0.00	42,705,000.00
tblWater	OutdoorWaterUseRate	563,706.00	0.00

2.0 Emissions Summary

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

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	0.1684	1.6431	1.4726	3.4800e-003	0.3146	0.0676	0.3822	0.1336	0.0624	0.1960	0.0000	307.7595	307.7595	0.0861	3.9600e-003	311.0928
2027	0.4511	3.6029	4.4756	0.0173	1.1339	0.0895	1.2234	0.3076	0.0840	0.3917	0.0000	1,596.4399	1,596.4399	0.1023	0.1126	1,632.5395
2028	0.4410	3.5392	4.4514	0.0177	1.1233	0.0830	1.2063	0.3049	0.0782	0.3831	0.0000	1,632.3486	1,632.3486	0.0884	0.1183	1,669.8155
2029	0.4065	3.3554	4.2042	0.0164	1.0467	0.0809	1.1276	0.2841	0.0761	0.3602	0.0000	1,511.5981	1,511.5981	0.0875	0.1075	1,545.8196
2030	3.3346	0.1565	0.4068	8.6000e-004	0.0384	6.6400e-003	0.0450	0.0102	6.6300e-003	0.0168	0.0000	75.5964	75.5964	2.8200e-003	6.0000e-004	75.8453
Maximum	3.3346	3.6029	4.4756	0.0177	1.1339	0.0895	1.2234	0.3076	0.0840	0.3917	0.0000	1,632.3486	1,632.3486	0.1023	0.1183	1,669.8155

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

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

2.1 Overall Construction

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	0.0478	0.2743	1.7815	3.4800e-003	0.1509	3.6200e-003	0.1545	0.0626	3.5900e-003	0.0662	0.0000	307.7592	307.7592	0.0861	3.9600e-003	311.0925
2027	0.3237	2.1418	4.7344	0.0173	1.0786	0.0194	1.0980	0.2927	0.0187	0.3114	0.0000	1,596.4395	1,596.4395	0.1023	0.1126	1,632.5391
2028	0.3288	2.2526	4.6504	0.0177	1.1233	0.0205	1.1438	0.3049	0.0197	0.3246	0.0000	1,632.3483	1,632.3483	0.0884	0.1183	1,669.8151
2029	0.2960	2.0879	4.4152	0.0164	1.0467	0.0188	1.0655	0.2841	0.0181	0.3022	0.0000	1,511.5977	1,511.5977	0.0875	0.1075	1,545.8193
2030	3.3148	0.0502	0.4328	8.6000e-004	0.0384	7.9000e-004	0.0392	0.0102	7.8000e-004	0.0110	0.0000	75.5963	75.5963	2.8200e-003	6.0000e-004	75.8452
Maximum	3.3148	2.2526	4.7344	0.0177	1.1233	0.0205	1.1438	0.3049	0.0197	0.3246	0.0000	1,632.3483	1,632.3483	0.1023	0.1183	1,669.8151

	ROG	NOx	CO	SO2	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	10.22	44.65	-6.69	0.00	5.99	80.74	12.14	8.26	80.18	24.66	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	0.7536	0.1406
2	10-1-2026	12-31-2026	1.0499	0.1810
3	1-1-2027	3-31-2027	1.0304	0.4957
4	4-1-2027	6-30-2027	0.9860	0.6363
5	7-1-2027	9-30-2027	0.9968	0.6433
6	10-1-2027	12-31-2027	1.0337	0.6801
7	1-1-2028	3-31-2028	1.0135	0.6638

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

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

8	4-1-2028	6-30-2028	0.9777	0.6280
9	7-1-2028	9-30-2028	0.9885	0.6349
10	10-1-2028	12-31-2028	1.0247	0.6711
11	1-1-2029	3-31-2029	0.9930	0.6471
12	4-1-2029	6-30-2029	0.9688	0.6191
13	7-1-2029	9-30-2029	0.9795	0.6259
14	10-1-2029	12-31-2029	0.8092	0.4822
15	1-1-2030	3-31-2030	1.8869	1.7617
16	4-1-2030	6-30-2030	1.6037	1.6037
		Highest	1.8869	1.7617

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

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	2.6658	4.0000e-004	0.0442	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0864	0.0864	2.2000e-004	0.0000	0.0920
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1,762.7393	1,762.7393	0.2852	0.0346	1,780.1696
Mobile	12.2842	19.0816	153.7494	0.4234	59.8784	0.2298	60.1082	15.9836	0.2159	16.1995	0.0000	39,095.9657	39,095.9657	1.7125	1.6144	39,619.8707
Stationary	0.4452	1.9910	1.1352	2.1400e-003		0.0655	0.0655		0.0655	0.0655	0.0000	206.6176	206.6176	0.0290	0.0000	207.3418
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	15.3951	21.0730	154.9287	0.4256	59.8784	0.2955	60.1739	15.9836	0.2815	16.2651	270.7379	41,086.7891	41,357.5270	18.6213	1.6823	42,324.3703

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

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	2.6658	4.0000e-004	0.0442	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0864	0.0864	2.2000e-004	0.0000	0.0920
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1,762.7393	1,762.7393	0.2852	0.0346	1,780.1696
Mobile	12.2842	19.0816	153.7494	0.4234	59.8784	0.2298	60.1082	15.9836	0.2159	16.1995	0.0000	39,095.9657	39,095.9657	1.7125	1.6144	39,619.8707
Stationary	0.4452	1.9910	1.1352	2.1400e-003		0.0655	0.0655		0.0655	0.0655	0.0000	206.6176	206.6176	0.0290	0.0000	207.3418
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	12.1935	19.2421	31.4356	1.2555	0.0300	71.7479
Total	15.3951	21.0730	154.9287	0.4256	59.8784	0.2955	60.1739	15.9836	0.2815	16.2651	140.7883	41,084.6511	41,225.4394	10.8821	1.6789	41,997.8102

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	48.00	0.01	0.32	41.56	0.20	0.77

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

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	-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	9/8/2026	5	50	
2	Site Preparation	Site Preparation	9/9/2026	10/20/2026	5	30	
3	Grading	Grading	10/21/2026	2/2/2027	5	75	
4	Building Construction	Building Construction	2/3/2027	12/4/2029	5	740	
5	Paving	Paving	12/5/2029	2/19/2030	5	55	
6	Architectural Coating	Architectural Coating	2/20/2030	5/7/2030	5	55	

Acres of Grading (Site Preparation Phase): 22.5

Acres of Grading (Grading Phase): 120

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 858,243; Non-Residential Outdoor: 286,081; Striped Parking Area: 90,377 (Architectural Coating – sqft)

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

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
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	166.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	832.00	341.00	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

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

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

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	0.0523	0.4799	0.4855	9.7000e-004		0.0213	0.0213		0.0198	0.0198	0.0000	84.9941	84.9941	0.0237	0.0000	85.5875
Total	0.0523	0.4799	0.4855	9.7000e-004	3.1500e-003	0.0213	0.0245	4.8000e-004	0.0198	0.0203	0.0000	84.9941	84.9941	0.0237	0.0000	85.5875

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

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 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	1.8300e-003	4.2000e-004	1.0000e-005	2.5000e-004	2.0000e-005	2.6000e-004	7.0000e-005	2.0000e-005	8.0000e-005	0.0000	0.7798	0.7798	0.0000	1.2000e-004	0.8165
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	8.4000e-004	5.1000e-004	6.7500e-003	2.0000e-005	2.9800e-003	1.0000e-005	2.9900e-003	7.9000e-004	1.0000e-005	8.0000e-004	0.0000	2.1772	2.1772	5.0000e-005	6.0000e-005	2.1950
Total	8.7000e-004	2.3400e-003	7.1700e-003	3.0000e-005	3.2300e-003	3.0000e-005	3.2500e-003	8.6000e-004	3.0000e-005	8.8000e-004	0.0000	2.9570	2.9570	5.0000e-005	1.8000e-004	3.0115

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	0.0174	0.1000	0.5767	9.7000e-004		2.5200e-003	2.5200e-003		2.5200e-003	2.5200e-003	0.0000	84.9940	84.9940	0.0237	0.0000	85.5874
Total	0.0174	0.1000	0.5767	9.7000e-004	1.4200e-003	2.5200e-003	3.9400e-003	2.1000e-004	2.5200e-003	2.7300e-003	0.0000	84.9940	84.9940	0.0237	0.0000	85.5874

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

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	1.8300e-003	4.2000e-004	1.0000e-005	2.5000e-004	2.0000e-005	2.6000e-004	7.0000e-005	2.0000e-005	8.0000e-005	0.0000	0.7798	0.7798	0.0000	1.2000e-004	0.8165
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	8.4000e-004	5.1000e-004	6.7500e-003	2.0000e-005	2.9800e-003	1.0000e-005	2.9900e-003	7.9000e-004	1.0000e-005	8.0000e-004	0.0000	2.1772	2.1772	5.0000e-005	6.0000e-005	2.1950
Total	8.7000e-004	2.3400e-003	7.1700e-003	3.0000e-005	3.2300e-003	3.0000e-005	3.2500e-003	8.6000e-004	3.0000e-005	8.8000e-004	0.0000	2.9570	2.9570	5.0000e-005	1.8000e-004	3.0115

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					0.1474	0.0000	0.1474	0.0758	0.0000	0.0758	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0371	0.3785	0.2687	5.7000e-004		0.0163	0.0163		0.0150	0.0150	0.0000	50.2005	50.2005	0.0162	0.0000	50.6064
Total	0.0371	0.3785	0.2687	5.7000e-004	0.1474	0.0163	0.1637	0.0758	0.0150	0.0908	0.0000	50.2005	50.2005	0.0162	0.0000	50.6064

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

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 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	6.1000e-004	3.7000e-004	4.8600e-003	2.0000e-005	2.1400e-003	1.0000e-005	2.1500e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.5676	1.5676	4.0000e-005	4.0000e-005	1.5804
Total	6.1000e-004	3.7000e-004	4.8600e-003	2.0000e-005	2.1400e-003	1.0000e-005	2.1500e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.5676	1.5676	4.0000e-005	4.0000e-005	1.5804

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					0.0663	0.0000	0.0663	0.0341	0.0000	0.0341	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.9800e-003	0.0303	0.3130	5.7000e-004		1.4000e-004	1.4000e-004		1.4000e-004	1.4000e-004	0.0000	50.2004	50.2004	0.0162	0.0000	50.6063
Total	6.9800e-003	0.0303	0.3130	5.7000e-004	0.0663	1.4000e-004	0.0665	0.0341	1.4000e-004	0.0342	0.0000	50.2004	50.2004	0.0162	0.0000	50.6063

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

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 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	6.1000e-004	3.7000e-004	4.8600e-003	2.0000e-005	2.1400e-003	1.0000e-005	2.1500e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.5676	1.5676	4.0000e-005	4.0000e-005	1.5804
Total	6.1000e-004	3.7000e-004	4.8600e-003	2.0000e-005	2.1400e-003	1.0000e-005	2.1500e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.5676	1.5676	4.0000e-005	4.0000e-005	1.5804

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					0.1471	0.0000	0.1471	0.0528	0.0000	0.0528	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0754	0.7265	0.6846	1.6100e-003		0.0294	0.0294		0.0271	0.0271	0.0000	141.7162	141.7162	0.0458	0.0000	142.8620
Total	0.0754	0.7265	0.6846	1.6100e-003	0.1471	0.0294	0.1765	0.0528	0.0271	0.0798	0.0000	141.7162	141.7162	0.0458	0.0000	142.8620

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

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 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	9.5000e-004	0.0548	0.0125	2.4000e-004	7.3800e-003	5.1000e-004	7.8800e-003	2.0300e-003	4.8000e-004	2.5100e-003	0.0000	23.3051	23.3051	1.5000e-004	3.6700e-003	24.4013
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	1.1700e-003	7.0000e-004	9.3600e-003	3.0000e-005	4.1300e-003	2.0000e-005	4.1500e-003	1.1000e-003	2.0000e-005	1.1200e-003	0.0000	3.0191	3.0191	7.0000e-005	8.0000e-005	3.0437
Total	2.1200e-003	0.0555	0.0218	2.7000e-004	0.0115	5.3000e-004	0.0120	3.1300e-003	5.0000e-004	3.6300e-003	0.0000	26.3241	26.3241	2.2000e-004	3.7500e-003	27.4451

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					0.0662	0.0000	0.0662	0.0238	0.0000	0.0238	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0198	0.0858	0.8580	1.6100e-003		4.0000e-004	4.0000e-004		4.0000e-004	4.0000e-004	0.0000	141.7160	141.7160	0.0458	0.0000	142.8618
Total	0.0198	0.0858	0.8580	1.6100e-003	0.0662	4.0000e-004	0.0666	0.0238	4.0000e-004	0.0242	0.0000	141.7160	141.7160	0.0458	0.0000	142.8618

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

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	9.5000e-004	0.0548	0.0125	2.4000e-004	7.3800e-003	5.1000e-004	7.8800e-003	2.0300e-003	4.8000e-004	2.5100e-003	0.0000	23.3051	23.3051	1.5000e-004	3.6700e-003	24.4013
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	1.1700e-003	7.0000e-004	9.3600e-003	3.0000e-005	4.1300e-003	2.0000e-005	4.1500e-003	1.1000e-003	2.0000e-005	1.1200e-003	0.0000	3.0191	3.0191	7.0000e-005	8.0000e-005	3.0437
Total	2.1200e-003	0.0555	0.0218	2.7000e-004	0.0115	5.3000e-004	0.0120	3.1300e-003	5.0000e-004	3.6300e-003	0.0000	26.3241	26.3241	2.2000e-004	3.7500e-003	27.4451

3.4 Grading - 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					
Fugitive Dust					0.1006	0.0000	0.1006	0.0272	0.0000	0.0272	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0334	0.3213	0.3028	7.1000e-004		0.0130	0.0130		0.0120	0.0120	0.0000	62.6821	62.6821	0.0203	0.0000	63.1890
Total	0.0334	0.3213	0.3028	7.1000e-004	0.1006	0.0130	0.1136	0.0272	0.0120	0.0391	0.0000	62.6821	62.6821	0.0203	0.0000	63.1890

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

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

3.4 Grading - 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	4.2000e-004	0.0240	5.5000e-003	1.0000e-004	3.2600e-003	2.2000e-004	3.4800e-003	9.0000e-004	2.1000e-004	1.1100e-003	0.0000	10.0675	10.0675	7.0000e-005	1.5800e-003	10.5411
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	2.8000e-004	3.9200e-003	1.0000e-005	1.8300e-003	1.0000e-005	1.8300e-003	4.9000e-004	1.0000e-005	4.9000e-004	0.0000	1.2954	1.2954	3.0000e-005	3.0000e-005	1.3057
Total	9.1000e-004	0.0243	9.4200e-003	1.1000e-004	5.0900e-003	2.3000e-004	5.3100e-003	1.3900e-003	2.2000e-004	1.6000e-003	0.0000	11.3629	11.3629	1.0000e-004	1.6100e-003	11.8468

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					0.0453	0.0000	0.0453	0.0122	0.0000	0.0122	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.7600e-003	0.0380	0.3795	7.1000e-004		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	62.6821	62.6821	0.0203	0.0000	63.1889
Total	8.7600e-003	0.0380	0.3795	7.1000e-004	0.0453	1.8000e-004	0.0454	0.0122	1.8000e-004	0.0124	0.0000	62.6821	62.6821	0.0203	0.0000	63.1889

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

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

3.4 Grading - 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	4.2000e-004	0.0240	5.5000e-003	1.0000e-004	3.2600e-003	2.2000e-004	3.4800e-003	9.0000e-004	2.1000e-004	1.1100e-003	0.0000	10.0675	10.0675	7.0000e-005	1.5800e-003	10.5411
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	2.8000e-004	3.9200e-003	1.0000e-005	1.8300e-003	1.0000e-005	1.8300e-003	4.9000e-004	1.0000e-005	4.9000e-004	0.0000	1.2954	1.2954	3.0000e-005	3.0000e-005	1.3057
Total	9.1000e-004	0.0243	9.4200e-003	1.1000e-004	5.0900e-003	2.3000e-004	5.3100e-003	1.3900e-003	2.2000e-004	1.6000e-003	0.0000	11.3629	11.3629	1.0000e-004	1.6100e-003	11.8468

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	0.1627	1.4839	1.9141	3.2100e-003		0.0628	0.0628		0.0591	0.0591	0.0000	275.9842	275.9842	0.0649	0.0000	277.6060
Total	0.1627	1.4839	1.9141	3.2100e-003		0.0628	0.0628		0.0591	0.0591	0.0000	275.9842	275.9842	0.0649	0.0000	277.6060

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

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

3.5 Building Construction - 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	0.0451	1.6512	0.5637	7.1900e-003	0.2420	0.0101	0.2522	0.0700	9.6900e-003	0.0797	0.0000	688.7856	688.7856	4.0600e-003	0.0971	717.8254
Worker	0.2089	0.1222	1.6855	6.0800e-003	0.7862	3.3500e-003	0.7896	0.2091	3.0800e-003	0.2122	0.0000	557.6251	557.6251	0.0130	0.0138	562.0722
Total	0.2541	1.7734	2.2493	0.0133	1.0283	0.0135	1.0417	0.2791	0.0128	0.2919	0.0000	1,246.4108	1,246.4108	0.0171	0.1109	1,279.8976

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	0.0600	0.3062	2.0962	3.2100e-003		5.5400e-003	5.5400e-003		5.5400e-003	5.5400e-003	0.0000	275.9838	275.9838	0.0649	0.0000	277.6057
Total	0.0600	0.3062	2.0962	3.2100e-003		5.5400e-003	5.5400e-003		5.5400e-003	5.5400e-003	0.0000	275.9838	275.9838	0.0649	0.0000	277.6057

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

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

3.5 Building Construction - 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	0.0451	1.6512	0.5637	7.1900e-003	0.2420	0.0101	0.2522	0.0700	9.6900e-003	0.0797	0.0000	688.7856	688.7856	4.0600e-003	0.0971	717.8254
Worker	0.2089	0.1222	1.6855	6.0800e-003	0.7862	3.3500e-003	0.7896	0.2091	3.0800e-003	0.2122	0.0000	557.6251	557.6251	0.0130	0.0138	562.0722
Total	0.2541	1.7734	2.2493	0.0133	1.0283	0.0135	1.0417	0.2791	0.0128	0.2919	0.0000	1,246.4108	1,246.4108	0.0171	0.1109	1,279.8976

3.5 Building Construction - 2028

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	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671
Total	0.1778	1.6211	2.0910	3.5000e-003		0.0686	0.0686		0.0645	0.0645	0.0000	301.4953	301.4953	0.0709	0.0000	303.2671

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

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

3.5 Building Construction - 2028

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	0.0485	1.7953	0.6071	7.7100e-003	0.2644	0.0110	0.2754	0.0765	0.0105	0.0870	0.0000	738.5805	738.5805	4.4300e-003	0.1039	769.6465
Worker	0.2148	0.1229	1.7533	6.4600e-003	0.8589	3.4300e-003	0.8623	0.2284	3.1600e-003	0.2316	0.0000	592.2728	592.2728	0.0131	0.0144	596.9019
Total	0.2633	1.9182	2.3604	0.0142	1.1233	0.0144	1.1377	0.3049	0.0137	0.3185	0.0000	1,330.8533	1,330.8533	0.0176	0.1183	1,366.5484

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	0.0655	0.3345	2.2900	3.5000e-003		6.0500e-003	6.0500e-003		6.0500e-003	6.0500e-003	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667
Total	0.0655	0.3345	2.2900	3.5000e-003		6.0500e-003	6.0500e-003		6.0500e-003	6.0500e-003	0.0000	301.4949	301.4949	0.0709	0.0000	303.2667

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

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

3.5 Building Construction - 2028

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	0.0485	1.7953	0.6071	7.7100e-003	0.2644	0.0110	0.2754	0.0765	0.0105	0.0870	0.0000	738.5805	738.5805	4.4300e-003	0.1039	769.6465
Worker	0.2148	0.1229	1.7533	6.4600e-003	0.8589	3.4300e-003	0.8623	0.2284	3.1600e-003	0.2316	0.0000	592.2728	592.2728	0.0131	0.0144	596.9019
Total	0.2633	1.9182	2.3604	0.0142	1.1233	0.0144	1.1377	0.3049	0.0137	0.3185	0.0000	1,330.8533	1,330.8533	0.0176	0.1183	1,366.5484

3.5 Building Construction - 2029

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	0.1655	1.5088	1.9462	3.2600e-003		0.0638	0.0638		0.0601	0.0601	0.0000	280.6225	280.6225	0.0660	0.0000	282.2717
Total	0.1655	1.5088	1.9462	3.2600e-003		0.0638	0.0638		0.0601	0.0601	0.0000	280.6225	280.6225	0.0660	0.0000	282.2717

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

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

3.5 Building Construction - 2029

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	0.0444	1.6589	0.5566	7.0400e-003	0.2461	0.0101	0.2562	0.0712	9.6800e-003	0.0809	0.0000	674.0248	674.0248	4.1300e-003	0.0946	702.3093
Worker	0.1877	0.1060	1.5607	5.8600e-003	0.7994	2.9900e-003	0.8024	0.2126	2.7500e-003	0.2153	0.0000	537.1721	537.1721	0.0113	0.0129	541.3004
Total	0.2321	1.7649	2.1173	0.0129	1.0456	0.0131	1.0587	0.2838	0.0124	0.2962	0.0000	1,211.1969	1,211.1969	0.0154	0.1075	1,243.6097

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	0.0610	0.3113	2.1314	3.2600e-003		5.6300e-003	5.6300e-003		5.6300e-003	5.6300e-003	0.0000	280.6222	280.6222	0.0660	0.0000	282.2713
Total	0.0610	0.3113	2.1314	3.2600e-003		5.6300e-003	5.6300e-003		5.6300e-003	5.6300e-003	0.0000	280.6222	280.6222	0.0660	0.0000	282.2713

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

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

3.5 Building Construction - 2029

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	0.0444	1.6589	0.5566	7.0400e-003	0.2461	0.0101	0.2562	0.0712	9.6800e-003	0.0809	0.0000	674.0248	674.0248	4.1300e-003	0.0946	702.3093
Worker	0.1877	0.1060	1.5607	5.8600e-003	0.7994	2.9900e-003	0.8024	0.2126	2.7500e-003	0.2153	0.0000	537.1721	537.1721	0.0113	0.0129	541.3004
Total	0.2321	1.7649	2.1173	0.0129	1.0456	0.0131	1.0587	0.2838	0.0124	0.2962	0.0000	1,211.1969	1,211.1969	0.0154	0.1075	1,243.6097

3.6 Paving - 2029

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	8.6900e-003	0.0815	0.1385	2.2000e-004		3.9800e-003	3.9800e-003		3.6600e-003	3.6600e-003	0.0000	19.0183	19.0183	6.1500e-003	0.0000	19.1721
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	8.6900e-003	0.0815	0.1385	2.2000e-004		3.9800e-003	3.9800e-003		3.6600e-003	3.6600e-003	0.0000	19.0183	19.0183	6.1500e-003	0.0000	19.1721

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

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

3.6 Paving - 2029

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	1.5000e-004	2.2100e-003	1.0000e-005	1.1300e-003	0.0000	1.1400e-003	3.0000e-004	0.0000	3.0000e-004	0.0000	0.7604	0.7604	2.0000e-005	2.0000e-005	0.7662
Total	2.7000e-004	1.5000e-004	2.2100e-003	1.0000e-005	1.1300e-003	0.0000	1.1400e-003	3.0000e-004	0.0000	3.0000e-004	0.0000	0.7604	0.7604	2.0000e-005	2.0000e-005	0.7662

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.6600e-003	0.0116	0.1643	2.2000e-004		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	19.0183	19.0183	6.1500e-003	0.0000	19.1720
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.6600e-003	0.0116	0.1643	2.2000e-004		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	19.0183	19.0183	6.1500e-003	0.0000	19.1720

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

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

3.6 Paving - 2029

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-004	1.5000e-004	2.2100e-003	1.0000e-005	1.1300e-003	0.0000	1.1400e-003	3.0000e-004	0.0000	3.0000e-004	0.0000	0.7604	0.7604	2.0000e-005	2.0000e-005	0.7662
Total	2.7000e-004	1.5000e-004	2.2100e-003	1.0000e-005	1.1300e-003	0.0000	1.1400e-003	3.0000e-004	0.0000	3.0000e-004	0.0000	0.7604	0.7604	2.0000e-005	2.0000e-005	0.7662

3.6 Paving - 2030

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	0.0249	0.1282	0.2853	5.0000e-004		5.9500e-003	5.9500e-003		5.9500e-003	5.9500e-003	0.0000	43.3791	43.3791	2.0300e-003	0.0000	43.4300
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0249	0.1282	0.2853	5.0000e-004		5.9500e-003	5.9500e-003		5.9500e-003	5.9500e-003	0.0000	43.3791	43.3791	2.0300e-003	0.0000	43.4300

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

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

3.6 Paving - 2030

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	2.7000e-004	4.0200e-003	2.0000e-005	2.1400e-003	1.0000e-005	2.1500e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.4070	1.4070	3.0000e-005	3.0000e-005	1.4177
Total	4.7000e-004	2.7000e-004	4.0200e-003	2.0000e-005	2.1400e-003	1.0000e-005	2.1500e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.4070	1.4070	3.0000e-005	3.0000e-005	1.4177

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.0500e-003	0.0219	0.3113	5.0000e-004		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	43.3791	43.3791	2.0300e-003	0.0000	43.4299
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.0500e-003	0.0219	0.3113	5.0000e-004		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	43.3791	43.3791	2.0300e-003	0.0000	43.4299

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

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

3.6 Paving - 2030

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.7000e-004	2.7000e-004	4.0200e-003	2.0000e-005	2.1400e-003	1.0000e-005	2.1500e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.4070	1.4070	3.0000e-005	3.0000e-005	1.4177
Total	4.7000e-004	2.7000e-004	4.0200e-003	2.0000e-005	2.1400e-003	1.0000e-005	2.1500e-003	5.7000e-004	1.0000e-005	5.8000e-004	0.0000	1.4070	1.4070	3.0000e-005	3.0000e-005	1.4177

3.7 Architectural Coating - 2030

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	3.2976					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6000e-003	0.0236	0.0494	8.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004	0.0000	7.0215	7.0215	2.8000e-004	0.0000	7.0286
Total	3.3012	0.0236	0.0494	8.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004	0.0000	7.0215	7.0215	2.8000e-004	0.0000	7.0286

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

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

3.7 Architectural Coating - 2030

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	7.9900e-003	4.4800e-003	0.0680	2.6000e-004	0.0363	1.3000e-004	0.0364	9.6400e-003	1.2000e-004	9.7600e-003	0.0000	23.7888	23.7888	4.7000e-004	5.7000e-004	23.9691
Total	7.9900e-003	4.4800e-003	0.0680	2.6000e-004	0.0363	1.3000e-004	0.0364	9.6400e-003	1.2000e-004	9.7600e-003	0.0000	23.7888	23.7888	4.7000e-004	5.7000e-004	23.9691

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	3.2976					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6000e-003	0.0236	0.0494	8.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004	0.0000	7.0214	7.0214	2.8000e-004	0.0000	7.0285
Total	3.3012	0.0236	0.0494	8.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004	0.0000	7.0214	7.0214	2.8000e-004	0.0000	7.0285

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

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

3.7 Architectural Coating - 2030

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	7.9900e-003	4.4800e-003	0.0680	2.6000e-004	0.0363	1.3000e-004	0.0364	9.6400e-003	1.2000e-004	9.7600e-003	0.0000	23.7888	23.7888	4.7000e-004	5.7000e-004	23.9691
Total	7.9900e-003	4.4800e-003	0.0680	2.6000e-004	0.0363	1.3000e-004	0.0364	9.6400e-003	1.2000e-004	9.7600e-003	0.0000	23.7888	23.7888	4.7000e-004	5.7000e-004	23.9691

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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	12.2842	19.0816	153.7494	0.4234	59.8784	0.2298	60.1082	15.9836	0.2159	16.1995	0.0000	39,095.9657	39,095.9657	1.7125	1.6144	39,619.8707
Unmitigated	12.2842	19.0816	153.7494	0.4234	59.8784	0.2298	60.1082	15.9836	0.2159	16.1995	0.0000	39,095.9657	39,095.9657	1.7125	1.6144	39,619.8707

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	10164.77	124,295,346	124,295,346
User Defined Commercial	1,777.80	2,744.32	2744.32	33,557,716	33,557,716
User Defined Industrial	0.00	0.00	0.00		
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
User Defined Industrial	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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

Land Use	Electricity Use kWh/yr	Total CO2 MT/yr	CH4 MT/yr	N2O MT/yr	CO2e 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
User Defined Industrial	153090	14.1645	2.2900e-003	2.8000e-004	14.3045
Total		1,762.7393	0.2852	0.0346	1,780.1696

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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
User Defined Industrial	153090	14.1645	2.2900e-003	2.8000e-004	14.3045
Total		1,762.7393	0.2852	0.0346	1,780.1696

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 - Solano-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	2.6658	4.0000e-004	0.0442	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0864	0.0864	2.2000e-004	0.0000	0.0920
Unmitigated	2.6658	4.0000e-004	0.0442	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0864	0.0864	2.2000e-004	0.0000	0.0920

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	0.3298					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3320					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0400e-003	4.0000e-004	0.0442	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0864	0.0864	2.2000e-004	0.0000	0.0920
Total	2.6658	4.0000e-004	0.0442	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0864	0.0864	2.2000e-004	0.0000	0.0920

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

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3298					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3320					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0400e-003	4.0000e-004	0.0442	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0864	0.0864	2.2000e-004	0.0000	0.0920
Total	2.6658	4.0000e-004	0.0442	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0864	0.0864	2.2000e-004	0.0000	0.0920

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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/yr			
Mitigated	31.4356	1.2555	0.0300	71.7479
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	0 / 0	0.0000	0.0000	0.0000	0.0000
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	42.705 / 0	34.9284	1.3950	0.0333	79.7199
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		34.9284	1.3950	0.0333	79.7199

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

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	0 / 0	0.0000	0.0000	0.0000	0.0000
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	38.4345 / 0	31.4356	1.2555	0.0300	71.7479
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		31.4356	1.2555	0.0300	71.7479

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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	0	0.0000	0.0000	0.0000	0.0000
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	1267	257.1896	15.1995	0.0000	637.1762
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		257.1896	15.1995	0.0000	637.1762

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

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

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	0	0.0000	0.0000	0.0000	0.0000
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	633.5	128.5948	7.5997	0.0000	318.5881
User Defined Industrial	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	60	2447	0.73	Diesel
Emergency Generator	1	0	12	2447	0.5	Diesel
Emergency Generator	1	0	60	1367	0.73	Diesel

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

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

Boilers

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

Equipment Type	Number
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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					
Emergency Generator - Diesel (750 - 9999 HP)	0.4452	1.9910	1.1352	2.1400e-003		0.0655	0.0655		0.0655	0.0655	0.0000	206.6176	206.6176	0.0290	0.0000	207.3418
Total	0.4452	1.9910	1.1352	2.1400e-003		0.0655	0.0655		0.0655	0.0655	0.0000	206.6176	206.6176	0.0290	0.0000	207.3418

11.0 Vegetation

Koi Nation Shiloh Resort and Casino - Alternative B - Solano-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

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 Tier4 1,650-KW (2,447 HP) emergency gen/sets operating 60 hours per year. One Tier4 1,650-KW (2,447 HP) emergency gen/set operating 12 hours per year. One Tier 4 900-KW (1,367 HP) emergency gen/set operating 60 hours per year.	Section 2 of the EA/TEIR
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	--	--

Alternative C – Mitigation Inputs (cont.)

Mitigation Input	CAPCOA Mitigation	Include in Model?		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	--	--

Alternative C – Mitigation Inputs (cont.)

Mitigation Input	CAPCOA Mitigation	Include in Model?		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.	--	--

Alternative C – Mitigation Inputs (cont.)

Mitigation Input	CAPCOA Mitigation	Include in Model?	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

Table 1: 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	
Industrial	User Defined (WWTP)	18.9	Ksf	0	18,900	

Notes:

ksf = 1,000 square feet

1 - Source: Section 2, Project Description.

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

Table 2: 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

Table 3: 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.

Table 4: 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	0	0
User Defined (Winery)	4.52	22.3	5.35	0	0
Hotel	Default	Default	Default	Default	Default
Unenclosed Parking Structure with Elevator	Default	Default	Default	Default	Default
Parking Lot	Default	Default	Default	Default	Default
User Defined (WWTP)	1.32	3.7	3.08	0	0

Notes: Winery based on CalEEMod default values for quality restaurant energy use. WWTP energy use based on CalEEMod default values for general light industrial. No natural gas use expected.

Alternative C – Off-Road Equipment Mitigation Inputs

Equipment Type	Engine Tier	Number of Equipment Mitigated	Diesel Particulate Filter (DPF) Level 2014
Welders, Air Compressors, Concrete/Industrial Saws	No Change	0	No Change
All Other Equipment	Tier 4	All	3

Mitigation Measures incorporated into EA/TEIR

- The Tribe shall use Tier 4 construction equipment for diesel equipment with a horsepower rating of greater than 50.
- 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).

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
User Defined Industrial	18.90	User Defined Unit	0.00	18,900.00	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/MW hr)	203.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See input tables for assumptions.

Construction Phase - See input tables for assumptions.

Trips and VMT - See input tables

Demolition -

Grading - See input tables for assumptions.

Vehicle Trips - See input tables for assumptions.

Energy Use - 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

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 - See input tables for assumptions.

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps - See input tables for assumptions.

Stationary Sources - Process Boilers - See input tables for assumptions.

Stationary Sources - Emergency Generators and Fire Pumps EF - Tier 4 Generators

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	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

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	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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

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

tblEnergyUse	NT24NG	4.75	0.00
tblEnergyUse	NT24NG	147.47	0.00
tblEnergyUse	T24E	0.00	1.32
tblEnergyUse	T24NG	39.16	0.00
tblEnergyUse	T24NG	59.80	0.00
tblLandUse	LandUseSquareFeet	0.00	20,000.00
tblLandUse	LandUseSquareFeet	0.00	18,900.00
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	0.00	18.94
tblStationaryBoilersUse	AnnualHeatInput	0.00	7,300.00
tblStationaryBoilersUse	BoilerRatingValue	0.00	0.50
tblStationaryBoilersUse	DailyHeatInput	0.00	20.00
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.05
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,367.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	2,447.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	2,447.00

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

tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	60.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	60.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	Load_Factor	0.73	0.50
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	2.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripNumber	0.00	989.00
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	SU_TR	0.00	1.15
tblVehicleTrips	WD_TR	8.36	7.99
tblVehicleTrips	WD_TR	83.84	80.00
tblVehicleTrips	WD_TR	0.00	4.50

2.0 Emissions Summary

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

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	0.1605	1.5005	1.5547	3.8400e-003	0.4048	0.0566	0.4614	0.1684	0.0526	0.2209	0.0000	343.4023	343.4023	0.0719	0.0114	348.6022
2027	1.4022	2.4592	3.4544	7.4400e-003	0.2188	0.0945	0.3133	0.0592	0.0888	0.1481	0.0000	664.0989	664.0989	0.1069	0.0224	673.4325
Maximum	1.4022	2.4592	3.4544	7.4400e-003	0.4048	0.0945	0.4614	0.1684	0.0888	0.2209	0.0000	664.0989	664.0989	0.1069	0.0224	673.4325

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	0.0625	0.3766	1.7874	3.8400e-003	0.2208	3.9100e-003	0.2247	0.0862	3.8500e-003	0.0901	0.0000	343.4020	343.4020	0.0719	0.0114	348.6019
2027	1.2623	0.8511	3.7741	7.4400e-003	0.2188	0.0139	0.2327	0.0592	0.0137	0.0730	0.0000	664.0984	664.0984	0.1069	0.0224	673.4320
Maximum	1.2623	0.8511	3.7741	7.4400e-003	0.2208	0.0139	0.2327	0.0862	0.0137	0.0901	0.0000	664.0984	664.0984	0.1069	0.0224	673.4320

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
Percent Reduction	15.23	69.00	-11.03	0.00	29.52	88.23	40.97	36.08	87.56	55.81	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	1.0939	0.2284
2	10-1-2026	12-31-2026	0.5633	0.2097
3	1-1-2027	3-31-2027	0.5883	0.2424
4	4-1-2027	6-30-2027	1.0072	0.6118
5	7-1-2027	9-30-2027	1.2771	0.6607
		Highest	1.2771	0.6607

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

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	0.9219	6.0000e-005	6.7400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0132	0.0132	3.0000e-005	0.0000	0.0140
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	144.2751	144.2751	0.0233	2.8300e-003	145.7017
Mobile	2.1219	3.6275	24.8896	0.0590	6.8643	0.0483	6.9126	1.8393	0.0453	1.8846	0.0000	5,446.5439	5,446.5439	0.2759	0.2480	5,527.3553
Stationary	0.3247	0.1592	0.8280	1.5600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	150.7090	150.7090	0.0211	0.0000	151.2372
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	2.0910	3.5137	5.6047	0.2153	5.1400e-003	12.5199
Total	3.3686	3.7868	25.7244	0.0605	6.8643	0.0643	6.9285	1.8393	0.0612	1.9006	29.0888	5,745.0548	5,774.1436	2.1313	0.2560	5,903.7141

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

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	0.9100	6.0000e-005	6.7400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0132	0.0132	3.0000e-005	0.0000	0.0140
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	136.6470	136.6470	0.0221	2.6800e-003	137.9982
Mobile	2.1219	3.6275	24.8896	0.0590	6.8643	0.0483	6.9126	1.8393	0.0453	1.8846	0.0000	5,446.5439	5,446.5439	0.2759	0.2480	5,527.3553
Stationary	0.3247	0.1592	0.8280	1.5600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	150.7090	150.7090	0.0211	0.0000	151.2372
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	1.8819	3.0981	4.9801	0.1938	4.6200e-003	11.2031
Total	3.3567	3.7868	25.7244	0.0605	6.8643	0.0643	6.9285	1.8393	0.0612	1.9006	15.3808	5,737.0111	5,752.3919	1.3108	0.2553	5,861.2508

	ROG	NOx	CO	SO2	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	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.12	0.14	0.38	38.50	0.26	0.72

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

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): 22.5

Acres of Grading (Grading Phase): 120

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 307,950; Non-Residential Outdoor: 102,650; Striped Parking Area: 8,748 (Architectural Coating – sqft)

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

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

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

Building Construction	9	145.00	58.00	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	29.00	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

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

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	3.4700e-003	0.0200	0.1153	1.9000e-004		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	16.9988	16.9988	4.7500e-003	0.0000	17.1175
Total	3.4700e-003	0.0200	0.1153	1.9000e-004	1.4200e-003	5.0000e-004	1.9200e-003	2.1000e-004	5.0000e-004	7.1000e-004	0.0000	16.9988	16.9988	4.7500e-003	0.0000	17.1175

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

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					0.1474	0.0000	0.1474	0.0758	0.0000	0.0758	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	0.1474	8.1500e-003	0.1556	0.0758	7.5000e-003	0.0833	0.0000	25.1002	25.1002	8.1200e-003	0.0000	25.3032

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

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					0.0663	0.0000	0.0663	0.0341	0.0000	0.0341	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4900e-003	0.0151	0.1565	2.9000e-004		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	25.1002	25.1002	8.1200e-003	0.0000	25.3032
Total	3.4900e-003	0.0151	0.1565	2.9000e-004	0.0663	7.0000e-005	0.0664	0.0341	7.0000e-005	0.0342	0.0000	25.1002	25.1002	8.1200e-003	0.0000	25.3032

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

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					0.1841	0.0000	0.1841	0.0731	0.0000	0.0731	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	0.1841	0.0226	0.2067	0.0731	0.0208	0.0939	0.0000	109.0124	109.0124	0.0353	0.0000	109.8939

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

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					0.0828	0.0000	0.0828	0.0329	0.0000	0.0329	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0152	0.0660	0.6600	1.2400e-003		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	109.0123	109.0123	0.0353	0.0000	109.8937
Total	0.0152	0.0660	0.6600	1.2400e-003	0.0828	3.0000e-004	0.0831	0.0329	3.0000e-004	0.0332	0.0000	109.0123	109.0123	0.0353	0.0000	109.8937

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

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

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

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	2.0500e-003	0.0952	0.0264	3.9000e-004	0.0131	5.0000e-004	0.0136	3.7900e-003	4.7000e-004	4.2600e-003	0.0000	38.0286	38.0286	7.8000e-004	5.7500e-003	39.7620
Worker	0.0160	9.6500e-003	0.1217	3.5000e-004	0.0438	2.2000e-004	0.0440	0.0117	2.1000e-004	0.0119	0.0000	32.1238	32.1238	9.4000e-004	9.2000e-004	32.4218
Total	0.0181	0.1048	0.1482	7.4000e-004	0.0569	7.2000e-004	0.0576	0.0155	6.8000e-004	0.0161	0.0000	70.1524	70.1524	1.7200e-003	6.6700e-003	72.1838

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	0.0194	0.0991	0.6782	1.0400e-003		1.7900e-003	1.7900e-003		1.7900e-003	1.7900e-003	0.0000	89.2889	89.2889	0.0210	0.0000	89.8136
Total	0.0194	0.0991	0.6782	1.0400e-003		1.7900e-003	1.7900e-003		1.7900e-003	1.7900e-003	0.0000	89.2889	89.2889	0.0210	0.0000	89.8136

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

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	2.0500e-003	0.0952	0.0264	3.9000e-004	0.0131	5.0000e-004	0.0136	3.7900e-003	4.7000e-004	4.2600e-003	0.0000	38.0286	38.0286	7.8000e-004	5.7500e-003	39.7620
Worker	0.0160	9.6500e-003	0.1217	3.5000e-004	0.0438	2.2000e-004	0.0440	0.0117	2.1000e-004	0.0119	0.0000	32.1238	32.1238	9.4000e-004	9.2000e-004	32.4218
Total	0.0181	0.1048	0.1482	7.4000e-004	0.0569	7.2000e-004	0.0576	0.0155	6.8000e-004	0.0161	0.0000	70.1524	70.1524	1.7200e-003	6.6700e-003	72.1838

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

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

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	6.6600e-003	0.3151	0.0871	1.2800e-003	0.0439	1.6300e-003	0.0456	0.0127	1.5600e-003	0.0143	0.0000	124.8979	124.8979	2.6500e-003	0.0189	130.5924
Worker	0.0504	0.0293	0.3824	1.1400e-003	0.1468	7.0000e-004	0.1475	0.0391	6.5000e-004	0.0397	0.0000	104.4438	104.4438	2.8700e-003	2.9100e-003	105.3822
Total	0.0570	0.3443	0.4695	2.4200e-003	0.1907	2.3300e-003	0.1931	0.0518	2.2100e-003	0.0540	0.0000	229.3417	229.3417	5.5200e-003	0.0218	235.9746

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	0.0650	0.3319	2.2723	3.4800e-003		6.0100e-003	6.0100e-003		6.0100e-003	6.0100e-003	0.0000	299.1757	299.1757	0.0703	0.0000	300.9339
Total	0.0650	0.3319	2.2723	3.4800e-003		6.0100e-003	6.0100e-003		6.0100e-003	6.0100e-003	0.0000	299.1757	299.1757	0.0703	0.0000	300.9339

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

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	6.6600e-003	0.3151	0.0871	1.2800e-003	0.0439	1.6300e-003	0.0456	0.0127	1.5600e-003	0.0143	0.0000	124.8979	124.8979	2.6500e-003	0.0189	130.5924
Worker	0.0504	0.0293	0.3824	1.1400e-003	0.1468	7.0000e-004	0.1475	0.0391	6.5000e-004	0.0397	0.0000	104.4438	104.4438	2.8700e-003	2.9100e-003	105.3822
Total	0.0570	0.3443	0.4695	2.4200e-003	0.1907	2.3300e-003	0.1931	0.0518	2.2100e-003	0.0540	0.0000	229.3417	229.3417	5.5200e-003	0.0218	235.9746

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	1.1009					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	1.1180	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

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

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	7.8100e-003	4.5400e-003	0.0593	1.8000e-004	0.0228	1.1000e-004	0.0229	6.0600e-003	1.0000e-004	6.1600e-003	0.0000	16.1928	16.1928	4.5000e-004	4.5000e-004	16.3383
Total	7.8100e-003	4.5400e-003	0.0593	1.8000e-004	0.0228	1.1000e-004	0.0229	6.0600e-003	1.0000e-004	6.1600e-003	0.0000	16.1928	16.1928	4.5000e-004	4.5000e-004	16.3383

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	1.1009					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	1.1180	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

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

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	7.8100e-003	4.5400e-003	0.0593	1.8000e-004	0.0228	1.1000e-004	0.0229	6.0600e-003	1.0000e-004	6.1600e-003	0.0000	16.1928	16.1928	4.5000e-004	4.5000e-004	16.3383
Total	7.8100e-003	4.5400e-003	0.0593	1.8000e-004	0.0228	1.1000e-004	0.0229	6.0600e-003	1.0000e-004	6.1600e-003	0.0000	16.1928	16.1928	4.5000e-004	4.5000e-004	16.3383

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

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

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	0.0126	0.0547	0.7783	1.0300e-003		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	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	0.0126	0.0547	0.7783	1.0300e-003		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	90.0865	90.0865	0.0291	0.0000	90.8149

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

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	2.1219	3.6275	24.8896	0.0590	6.8643	0.0483	6.9126	1.8393	0.0453	1.8846	0.0000	5,446.5439	5,446.5439	0.2759	0.2480	5,527.3553
Unmitigated	2.1219	3.6275	24.8896	0.0590	6.8643	0.0483	6.9126	1.8393	0.0453	1.8846	0.0000	5,446.5439	5,446.5439	0.2759	0.2480	5,527.3553

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	23.00	235,718	235,718
User Defined Industrial	0.00	0.00	0.00		
Total	2,088.00	2,704.00	2,256.00	18,674,037	18,674,037

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
Quality Restaurant	14.70	55.00	10.00	12.00	69.00	19.00	38	18	44
User Defined Commercial	14.70	6.60	10.00	37.00	10.00	53.00	80	0	20
User Defined Industrial	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

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

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	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	153090	14.1645	2.2900e-003	2.8000e-004	14.3045
Total		144.2751	0.0233	2.8300e-003	145.7017

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

5.3 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	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	143776	13.3027	2.1500e-003	2.6000e-004	13.4343
Total		136.6470	0.0221	2.6800e-003	137.9982

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, 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	0.9100	6.0000e-005	6.7400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0132	0.0132	3.0000e-005	0.0000	0.0140
Unmitigated	0.9219	6.0000e-005	6.7400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0132	0.0132	3.0000e-005	0.0000	0.0140

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	0.1101					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8112					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.2000e-004	6.0000e-005	6.7400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0132	0.0132	3.0000e-005	0.0000	0.0140
Total	0.9219	6.0000e-005	6.7400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0132	0.0132	3.0000e-005	0.0000	0.0140

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

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	0.0982					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8112					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.2000e-004	6.0000e-005	6.7400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0132	0.0132	3.0000e-005	0.0000	0.0140
Total	0.9100	6.0000e-005	6.7400e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0132	0.0132	3.0000e-005	0.0000	0.0140

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

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/yr			
Mitigated	4.9801	0.1938	4.6200e-003	11.2031
Unmitigated	5.6047	0.2153	5.1400e-003	12.5199

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	5.07335 / 0.563706	4.3320	0.1658	3.9600e-003	9.6551
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.51767 / 0.0968725	1.2727	0.0496	1.1800e-003	2.8648
User Defined Commercial	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		5.6047	0.2153	5.1400e-003	12.5199

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	4.56602 / 0.338224	3.8441	0.1492	3.5600e-003	8.6343
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.3659 / 0.0581235	1.1360	0.0446	1.0600e-003	2.5688
User Defined Commercial	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		4.9801	0.1938	4.6200e-003	11.2031

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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

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	109.5	22.2275	1.3136	0.0000	55.0677
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	4.56	0.9256	0.0547	0.0000	2.2932
User Defined Commercial	18.94	3.8447	0.2272	0.0000	9.5250
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		26.9978	1.5955	0.0000	66.8859

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

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	54.75	11.1138	0.6568	0.0000	27.5339
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	2.28	0.4628	0.0274	0.0000	1.1466
User Defined Commercial	9.47	1.9223	0.1136	0.0000	4.7625
User Defined Industrial	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	60	2447	0.73	Diesel
Emergency Generator	1	0	12	2447	0.5	Diesel
Emergency Generator	1	0	60	1367	0.73	Diesel

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	0	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	tons/yr										MT/yr					
Boiler - CNG (0 - 2 MMBTU)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Emergency Generator - Diesel (750 - 9999 HP)	0.3247	0.1592	0.8280	1.5600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	150.7090	150.7090	0.0211	0.0000	151.2372
Total	0.3247	0.1592	0.8280	1.5600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	150.7090	150.7090	0.0211	0.0000	151.2372

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
User Defined Industrial	18.90	User Defined Unit	0.00	18,900.00	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/MW hr)	203.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See input tables for assumptions.

Construction Phase - See input tables for assumptions.

Trips and VMT - See input tables

Demolition -

Grading - See input tables for assumptions.

Vehicle Trips - See input tables for assumptions.

Energy Use - 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

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 - See input tables for assumptions.

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps - See input tables for assumptions.

Stationary Sources - Process Boilers - See input tables for assumptions.

Stationary Sources - Emergency Generators and Fire Pumps EF - Tier 4 Generators

Table Name	Column Name	Default Value	New Value
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	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

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

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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	4.75	0.00
tblEnergyUse	NT24NG	147.47	0.00
tblEnergyUse	T24E	0.00	1.32

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

tblEnergyUse	T24NG	39.16	0.00
tblEnergyUse	T24NG	59.80	0.00
tblLandUse	LandUseSquareFeet	0.00	20,000.00
tblLandUse	LandUseSquareFeet	0.00	18,900.00
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	0.00	18.94
tblStationaryBoilersUse	AnnualHeatInput	0.00	7,300.00
tblStationaryBoilersUse	BoilerRatingValue	0.00	0.50
tblStationaryBoilersUse	DailyHeatInput	0.00	20.00
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.05
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,367.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	2,447.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	2,447.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	60.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	60.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00

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

tblStationaryGeneratorsPumpsUse	Load_Factor	0.73	0.50
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	2.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripNumber	0.00	989.00
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	SU_TR	0.00	1.15
tblVehicleTrips	WD_TR	8.36	7.99
tblVehicleTrips	WD_TR	83.84	80.00
tblVehicleTrips	WD_TR	0.00	4.50

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	20.6083	1.9437	22.5520	10.2835	1.7957	12.0792	0.0000	7,842.172 2	7,842.172 2	2.2514	0.2519	7,908.799 8
2027	14.0437	24.8256	37.2263	0.0748	1.9061	1.0173	2.9234	0.5135	0.9514	1.4649	0.0000	7,340.921 5	7,340.921 5	1.3826	0.1912	7,432.462 6
Maximum	14.0437	44.8698	38.1833	0.0808	20.6083	1.9437	22.5520	10.2835	1.7957	12.0792	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	1.2648	6.6437	44.7881	0.0808	9.4504	0.1143	9.5647	4.6746	0.1140	4.7887	0.0000	7,842.172 2	7,842.172 2	2.2514	0.2519	7,908.799 8
2027	12.5454	7.5625	41.4744	0.0748	1.9061	0.1234	2.0295	0.5135	0.1223	0.6358	0.0000	7,340.921 5	7,340.921 5	1.3826	0.1912	7,432.462 6
Maximum	12.5454	7.5625	44.7881	0.0808	9.4504	0.1234	9.5647	4.6746	0.1223	4.7887	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	26.20	79.62	-14.39	0.00	49.56	91.97	54.49	51.95	91.40	59.95	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	5.0552	6.8000e-004	0.0749	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1611	0.1611	4.2000e-004		0.1715
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	14.7457	22.5740	169.7124	0.4095	47.7124	0.3218	48.0342	12.7375	0.3016	13.0390		41,687.74 14	41,687.74 14	1.9780	1.7525	42,259.43 85
Stationary	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	19.8009	22.5747	169.7874	0.4095	47.7124	0.3221	48.0345	12.7375	0.3018	13.0393		41,687.90 25	41,687.90 25	1.9784	1.7525	42,259.61 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

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	5.0552	6.8000e-004	0.0749	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1611	0.1611	4.2000e-004		0.1715
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	14.7457	22.5740	169.7124	0.4095	47.7124	0.3218	48.0342	12.7375	0.3016	13.0390		41,687.74 14	41,687.74 14	1.9780	1.7525	42,259.43 85
Stationary	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	19.8009	22.5747	169.7874	0.4095	47.7124	0.3221	48.0345	12.7375	0.3018	13.0393		41,687.90 25	41,687.90 25	1.9784	1.7525	42,259.61 00

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	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): 22.5

Acres of Grading (Grading Phase): 120

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 307,950; Non-Residential Outdoor: 102,650; 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	145.00	58.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	29.00	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	0.6948	4.0014	23.0661	0.0388		0.1008	0.1008		0.1008	0.1008	0.0000	3,747.5996	3,747.5996	1.0464		3,773.7606
Total	0.6948	4.0014	23.0661	0.0388	0.2835	0.1008	0.3843	0.0429	0.1008	0.1437	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					19.6570	0.0000	19.6570	10.1025	0.0000	10.1025			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	19.6570	1.0868	20.7438	10.1025	0.9999	11.1023		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					8.8457	0.0000	8.8457	4.5461	0.0000	4.5461			0.0000			0.0000
Off-Road	0.4656	2.0175	20.8690	0.0381		9.3100e-003	9.3100e-003		9.3100e-003	9.3100e-003	0.0000	3,689.1037	3,689.1037	1.1931		3,718.9320
Total	0.4656	2.0175	20.8690	0.0381	8.8457	9.3100e-003	8.8550	4.5461	9.3100e-003	4.5554	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					9.2036	0.0000	9.2036	3.6538	0.0000	3.6538			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	9.2036	1.1309	10.3345	3.6538	1.0404	4.6942		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					4.1416	0.0000	4.1416	1.6442	0.0000	1.6442			0.0000			0.0000
Off-Road	0.7616	3.3000	32.9991	0.0621		0.0152	0.0152		0.0152	0.0152	0.0000	6,008.281 4	6,008.281 4	1.9432		6,056.861 4
Total	0.7616	3.3000	32.9991	0.0621	4.1416	0.0152	4.1568	1.6442	0.0152	1.6594	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	0.0542	2.3948	0.6769	0.0101	0.3535	0.0128	0.3663	0.1017	0.0123	0.1139		1,088.208 0	1,088.208 0	0.0224	0.1645	1,137.791 4
Worker	0.4327	0.2231	3.3502	9.6200e-003	1.1911	5.8400e-003	1.1970	0.3160	5.3800e-003	0.3213		972.2284	972.2284	0.0252	0.0244	980.1297
Total	0.4870	2.6180	4.0271	0.0198	1.5446	0.0187	1.5633	0.4176	0.0177	0.4353		2,060.436 4	2,060.436 4	0.0476	0.1889	2,117.921 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	0.5038	2.5728	17.6150	0.0270		0.0466	0.0466		0.0466	0.0466	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.5038	2.5728	17.6150	0.0270		0.0466	0.0466		0.0466	0.0466	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	0.0542	2.3948	0.6769	0.0101	0.3535	0.0128	0.3663	0.1017	0.0123	0.1139		1,088.208 0	1,088.208 0	0.0224	0.1645	1,137.791 4
Worker	0.4327	0.2231	3.3502	9.6200e-003	1.1911	5.8400e-003	1.1970	0.3160	5.3800e-003	0.3213		972.2284	972.2284	0.0252	0.0244	980.1297
Total	0.4870	2.6180	4.0271	0.0198	1.5446	0.0187	1.5633	0.4176	0.0177	0.4353		2,060.436 4	2,060.436 4	0.0476	0.1889	2,117.921 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	0.0526	2.3655	0.6652	9.9300e-003	0.3535	0.0126	0.3661	0.1016	0.0121	0.1137		1,066.649 2	1,066.649 2	0.0227	0.1612	1,115.262 3
Worker	0.4054	0.2020	3.1373	9.3300e-003	1.1911	5.4600e-003	1.1966	0.3160	5.0300e-003	0.3210		943.3476	943.3476	0.0229	0.0230	950.7723
Total	0.4580	2.5675	3.8025	0.0193	1.5446	0.0181	1.5627	0.4176	0.0171	0.4347		2,009.996 8	2,009.996 8	0.0457	0.1842	2,066.034 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	0.5038	2.5728	17.6150	0.0270		0.0466	0.0466		0.0466	0.0466	0.0000	2,556.474 4	2,556.474 4	0.6010		2,571.498 1
Total	0.5038	2.5728	17.6150	0.0270		0.0466	0.0466		0.0466	0.0466	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	0.0526	2.3655	0.6652	9.9300e-003	0.3535	0.0126	0.3661	0.1016	0.0121	0.1137		1,066.649 2	1,066.649 2	0.0227	0.1612	1,115.262 3
Worker	0.4054	0.2020	3.1373	9.3300e-003	1.1911	5.4600e-003	1.1966	0.3160	5.0300e-003	0.3210		943.3476	943.3476	0.0229	0.0230	950.7723
Total	0.4580	2.5675	3.8025	0.0193	1.5446	0.0181	1.5627	0.4176	0.0171	0.4347		2,009.996 8	2,009.996 8	0.0457	0.1842	2,066.034 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	11.0092					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	11.1801	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	0.0811	0.0404	0.6275	1.8700e-003	0.2382	1.0900e-003	0.2393	0.0632	1.0100e-003	0.0642		188.6695	188.6695	4.5900e-003	4.6000e-003	190.1545
Total	0.0811	0.0404	0.6275	1.8700e-003	0.2382	1.0900e-003	0.2393	0.0632	1.0100e-003	0.0642		188.6695	188.6695	4.5900e-003	4.6000e-003	190.1545

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

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	11.0092					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	11.1801	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	0.0811	0.0404	0.6275	1.8700e-003	0.2382	1.0900e-003	0.2393	0.0632	1.0100e-003	0.0642		188.6695	188.6695	4.5900e-003	4.6000e-003	190.1545
Total	0.0811	0.0404	0.6275	1.8700e-003	0.2382	1.0900e-003	0.2393	0.0632	1.0100e-003	0.0642		188.6695	188.6695	4.5900e-003	4.6000e-003	190.1545

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	0.2805	1.2154	17.2957	0.0228		5.6100e-003	5.6100e-003		5.6100e-003	5.6100e-003	0.0000	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	0.2805	1.2154	17.2957	0.0228		5.6100e-003	5.6100e-003		5.6100e-003	5.6100e-003	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878

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	14.7457	22.5740	169.7124	0.4095	47.7124	0.3218	48.0342	12.7375	0.3016	13.0390		41,687.74 14	41,687.74 14	1.9780	1.7525	42,259.43 85
Unmitigated	14.7457	22.5740	169.7124	0.4095	47.7124	0.3218	48.0342	12.7375	0.3016	13.0390		41,687.74 14	41,687.74 14	1.9780	1.7525	42,259.43 85

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	23.00	235,718	235,718
User Defined Industrial	0.00	0.00	0.00		
Total	2,088.00	2,704.00	2,256.00	18,674,037	18,674,037

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 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

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
Quality Restaurant	14.70	55.00	10.00	12.00	69.00	19.00	38	18	44
User Defined Commercial	14.70	6.60	10.00	37.00	10.00	53.00	80	0	20
User Defined Industrial	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
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
User Defined Industrial	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 - 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					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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	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
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	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 Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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	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
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	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 Industrial	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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	5.0552	6.8000e-004	0.0749	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1611	0.1611	4.2000e-004		0.1715
Unmitigated	5.0552	6.8000e-004	0.0749	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1611	0.1611	4.2000e-004		0.1715

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	0.6032					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.4451					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.9000e-003	6.8000e-004	0.0749	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1611	0.1611	4.2000e-004		0.1715
Total	5.0552	6.8000e-004	0.0749	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1611	0.1611	4.2000e-004		0.1715

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	0.6032					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.4451					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.9000e-003	6.8000e-004	0.0749	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1611	0.1611	4.2000e-004		0.1715
Total	5.0552	6.8000e-004	0.0749	1.0000e-005		2.7000e-004	2.7000e-004		2.7000e-004	2.7000e-004		0.1611	0.1611	4.2000e-004		0.1715

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 - 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	60	2447	0.73	Diesel
Emergency Generator	1	0	12	2447	0.5	Diesel
Emergency Generator	1	0	60	1367	0.73	Diesel

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	0	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)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

11.0 Vegetation

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, 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
User Defined Industrial	18.90	User Defined Unit	0.00	18,900.00	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	2040
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MW hr)	203.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - See input tables for assumptions.

Construction Phase - See input tables for assumptions.

Trips and VMT - See input tables

Demolition -

Grading - See input tables for assumptions.

Vehicle Trips - See input tables for assumptions.

Energy Use - 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

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 - See input tables for assumptions.

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps - See input tables for assumptions.

Stationary Sources - Process Boilers - See input tables for assumptions.

Stationary Sources - Emergency Generators and Fire Pumps EF - Tier 4 Generators

Table Name	Column Name	Default Value	New Value
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	DPF	No Change	Level 3
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

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	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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	4.75	0.00
tblEnergyUse	NT24NG	147.47	0.00
tblEnergyUse	T24E	0.00	1.32

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

tblEnergyUse	T24NG	39.16	0.00
tblEnergyUse	T24NG	59.80	0.00
tblLandUse	LandUseSquareFeet	0.00	20,000.00
tblLandUse	LandUseSquareFeet	0.00	18,900.00
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	0.00	18.94
tblStationaryBoilersUse	AnnualHeatInput	0.00	7,300.00
tblStationaryBoilersUse	BoilerRatingValue	0.00	0.50
tblStationaryBoilersUse	DailyHeatInput	0.00	20.00
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	NOX_EF	4.56	0.50
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM10_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.05
tblStationaryGeneratorsPumpsEF	PM2_5_EF	0.15	0.05
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,367.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	2,447.00
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	2,447.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	60.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	60.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00

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

tblStationaryGeneratorsPumpsUse	Load_Factor	0.73	0.50
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	2.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripNumber	0.00	989.00
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	SU_TR	0.00	1.15
tblVehicleTrips	WD_TR	8.36	7.99
tblVehicleTrips	WD_TR	83.84	80.00
tblVehicleTrips	WD_TR	0.00	4.50

2.0 Emissions Summary

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

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	0.1605	1.5005	1.5547	3.8400e-003	0.4048	0.0566	0.4614	0.1684	0.0526	0.2209	0.0000	343.4023	343.4023	0.0719	0.0114	348.6022
2027	1.4022	2.4592	3.4544	7.4400e-003	0.2188	0.0945	0.3133	0.0592	0.0888	0.1481	0.0000	664.0989	664.0989	0.1069	0.0224	673.4325
Maximum	1.4022	2.4592	3.4544	7.4400e-003	0.4048	0.0945	0.4614	0.1684	0.0888	0.2209	0.0000	664.0989	664.0989	0.1069	0.0224	673.4325

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	0.0625	0.3766	1.7874	3.8400e-003	0.2208	3.9100e-003	0.2247	0.0862	3.8500e-003	0.0901	0.0000	343.4020	343.4020	0.0719	0.0114	348.6019
2027	1.2623	0.8511	3.7741	7.4400e-003	0.2188	0.0139	0.2327	0.0592	0.0137	0.0730	0.0000	664.0984	664.0984	0.1069	0.0224	673.4320
Maximum	1.2623	0.8511	3.7741	7.4400e-003	0.2208	0.0139	0.2327	0.0862	0.0137	0.0901	0.0000	664.0984	664.0984	0.1069	0.0224	673.4320

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
Percent Reduction	15.23	69.00	-11.03	0.00	29.52	88.23	40.97	36.08	87.56	55.81	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	1.0939	0.2284
2	10-1-2026	12-31-2026	0.5633	0.2097
3	1-1-2027	3-31-2027	0.5883	0.2424
4	4-1-2027	6-30-2027	1.0072	0.6118
5	7-1-2027	9-30-2027	1.2771	0.6607
		Highest	1.2771	0.6607

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

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	0.9219	6.0000e-005	6.7200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0132	0.0132	3.0000e-005	0.0000	0.0140
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	144.2751	144.2751	0.0233	2.8300e-003	145.7017
Mobile	1.5393	2.2058	18.6754	0.0478	6.8491	0.0248	6.8739	1.8329	0.0232	1.8562	0.0000	4,415.5435	4,415.5435	0.2086	0.1909	4,477.6526
Stationary	0.3247	0.1592	0.8280	1.5600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	150.7090	150.7090	0.0211	0.0000	151.2372
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	2.0910	3.5137	5.6047	0.2153	5.1400e-003	12.5199
Total	2.7859	2.3651	19.5101	0.0494	6.8491	0.0407	6.8898	1.8329	0.0392	1.8721	29.0888	4,714.0545	4,743.1433	2.0639	0.1989	4,854.0113

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

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	0.9219	6.0000e-005	6.7200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0132	0.0132	3.0000e-005	0.0000	0.0140
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	136.6470	136.6470	0.0221	2.6800e-003	137.9982
Mobile	1.5393	2.2058	18.6754	0.0478	6.8491	0.0248	6.8739	1.8329	0.0232	1.8562	0.0000	4,415.5435	4,415.5435	0.2086	0.1909	4,477.6526
Stationary	0.3247	0.1592	0.8280	1.5600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	150.7090	150.7090	0.0211	0.0000	151.2372
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	1.8819	3.0981	4.9801	0.1938	4.6200e-003	11.2031
Total	2.7859	2.3651	19.5101	0.0494	6.8491	0.0407	6.8898	1.8329	0.0392	1.8721	15.3808	4,706.0108	4,721.3916	1.2434	0.1982	4,811.5480

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.12	0.17	0.46	39.76	0.34	0.87

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

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): 22.5

Acres of Grading (Grading Phase): 120

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 307,950; Non-Residential Outdoor: 102,650; Striped Parking Area: 8,748 (Architectural Coating – sqft)

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

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

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

Building Construction	9	145.00	58.00	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	29.00	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

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

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	3.4700e-003	0.0200	0.1153	1.9000e-004		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	16.9988	16.9988	4.7500e-003	0.0000	17.1175
Total	3.4700e-003	0.0200	0.1153	1.9000e-004	1.4200e-003	5.0000e-004	1.9200e-003	2.1000e-004	5.0000e-004	7.1000e-004	0.0000	16.9988	16.9988	4.7500e-003	0.0000	17.1175

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

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					0.1474	0.0000	0.1474	0.0758	0.0000	0.0758	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	0.1474	8.1500e-003	0.1556	0.0758	7.5000e-003	0.0833	0.0000	25.1002	25.1002	8.1200e-003	0.0000	25.3032

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

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					0.0663	0.0000	0.0663	0.0341	0.0000	0.0341	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4900e-003	0.0151	0.1565	2.9000e-004		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	25.1002	25.1002	8.1200e-003	0.0000	25.3032
Total	3.4900e-003	0.0151	0.1565	2.9000e-004	0.0663	7.0000e-005	0.0664	0.0341	7.0000e-005	0.0342	0.0000	25.1002	25.1002	8.1200e-003	0.0000	25.3032

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

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					0.1841	0.0000	0.1841	0.0731	0.0000	0.0731	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	0.1841	0.0226	0.2067	0.0731	0.0208	0.0939	0.0000	109.0124	109.0124	0.0353	0.0000	109.8939

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

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					0.0828	0.0000	0.0828	0.0329	0.0000	0.0329	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0152	0.0660	0.6600	1.2400e-003		3.0000e-004	3.0000e-004		3.0000e-004	3.0000e-004	0.0000	109.0123	109.0123	0.0353	0.0000	109.8937
Total	0.0152	0.0660	0.6600	1.2400e-003	0.0828	3.0000e-004	0.0831	0.0329	3.0000e-004	0.0332	0.0000	109.0123	109.0123	0.0353	0.0000	109.8937

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

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

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

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	2.0500e-003	0.0952	0.0264	3.9000e-004	0.0131	5.0000e-004	0.0136	3.7900e-003	4.7000e-004	4.2600e-003	0.0000	38.0286	38.0286	7.8000e-004	5.7500e-003	39.7620
Worker	0.0160	9.6500e-003	0.1217	3.5000e-004	0.0438	2.2000e-004	0.0440	0.0117	2.1000e-004	0.0119	0.0000	32.1238	32.1238	9.4000e-004	9.2000e-004	32.4218
Total	0.0181	0.1048	0.1482	7.4000e-004	0.0569	7.2000e-004	0.0576	0.0155	6.8000e-004	0.0161	0.0000	70.1524	70.1524	1.7200e-003	6.6700e-003	72.1838

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	0.0194	0.0991	0.6782	1.0400e-003		1.7900e-003	1.7900e-003		1.7900e-003	1.7900e-003	0.0000	89.2889	89.2889	0.0210	0.0000	89.8136
Total	0.0194	0.0991	0.6782	1.0400e-003		1.7900e-003	1.7900e-003		1.7900e-003	1.7900e-003	0.0000	89.2889	89.2889	0.0210	0.0000	89.8136

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

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	2.0500e-003	0.0952	0.0264	3.9000e-004	0.0131	5.0000e-004	0.0136	3.7900e-003	4.7000e-004	4.2600e-003	0.0000	38.0286	38.0286	7.8000e-004	5.7500e-003	39.7620
Worker	0.0160	9.6500e-003	0.1217	3.5000e-004	0.0438	2.2000e-004	0.0440	0.0117	2.1000e-004	0.0119	0.0000	32.1238	32.1238	9.4000e-004	9.2000e-004	32.4218
Total	0.0181	0.1048	0.1482	7.4000e-004	0.0569	7.2000e-004	0.0576	0.0155	6.8000e-004	0.0161	0.0000	70.1524	70.1524	1.7200e-003	6.6700e-003	72.1838

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

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

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	6.6600e-003	0.3151	0.0871	1.2800e-003	0.0439	1.6300e-003	0.0456	0.0127	1.5600e-003	0.0143	0.0000	124.8979	124.8979	2.6500e-003	0.0189	130.5924
Worker	0.0504	0.0293	0.3824	1.1400e-003	0.1468	7.0000e-004	0.1475	0.0391	6.5000e-004	0.0397	0.0000	104.4438	104.4438	2.8700e-003	2.9100e-003	105.3822
Total	0.0570	0.3443	0.4695	2.4200e-003	0.1907	2.3300e-003	0.1931	0.0518	2.2100e-003	0.0540	0.0000	229.3417	229.3417	5.5200e-003	0.0218	235.9746

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	0.0650	0.3319	2.2723	3.4800e-003		6.0100e-003	6.0100e-003		6.0100e-003	6.0100e-003	0.0000	299.1757	299.1757	0.0703	0.0000	300.9339
Total	0.0650	0.3319	2.2723	3.4800e-003		6.0100e-003	6.0100e-003		6.0100e-003	6.0100e-003	0.0000	299.1757	299.1757	0.0703	0.0000	300.9339

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

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	6.6600e-003	0.3151	0.0871	1.2800e-003	0.0439	1.6300e-003	0.0456	0.0127	1.5600e-003	0.0143	0.0000	124.8979	124.8979	2.6500e-003	0.0189	130.5924
Worker	0.0504	0.0293	0.3824	1.1400e-003	0.1468	7.0000e-004	0.1475	0.0391	6.5000e-004	0.0397	0.0000	104.4438	104.4438	2.8700e-003	2.9100e-003	105.3822
Total	0.0570	0.3443	0.4695	2.4200e-003	0.1907	2.3300e-003	0.1931	0.0518	2.2100e-003	0.0540	0.0000	229.3417	229.3417	5.5200e-003	0.0218	235.9746

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	1.1009					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	1.1180	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

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

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	7.8100e-003	4.5400e-003	0.0593	1.8000e-004	0.0228	1.1000e-004	0.0229	6.0600e-003	1.0000e-004	6.1600e-003	0.0000	16.1928	16.1928	4.5000e-004	4.5000e-004	16.3383
Total	7.8100e-003	4.5400e-003	0.0593	1.8000e-004	0.0228	1.1000e-004	0.0229	6.0600e-003	1.0000e-004	6.1600e-003	0.0000	16.1928	16.1928	4.5000e-004	4.5000e-004	16.3383

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	1.1009					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	1.1180	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

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

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	7.8100e-003	4.5400e-003	0.0593	1.8000e-004	0.0228	1.1000e-004	0.0229	6.0600e-003	1.0000e-004	6.1600e-003	0.0000	16.1928	16.1928	4.5000e-004	4.5000e-004	16.3383
Total	7.8100e-003	4.5400e-003	0.0593	1.8000e-004	0.0228	1.1000e-004	0.0229	6.0600e-003	1.0000e-004	6.1600e-003	0.0000	16.1928	16.1928	4.5000e-004	4.5000e-004	16.3383

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

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

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	0.0126	0.0547	0.7783	1.0300e-003		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	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	0.0126	0.0547	0.7783	1.0300e-003		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	90.0865	90.0865	0.0291	0.0000	90.8149

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

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	1.5393	2.2058	18.6754	0.0478	6.8491	0.0248	6.8739	1.8329	0.0232	1.8562	0.0000	4,415,543.5	4,415,543.5	0.2086	0.1909	4,477,652.6
Unmitigated	1.5393	2.2058	18.6754	0.0478	6.8491	0.0248	6.8739	1.8329	0.0232	1.8562	0.0000	4,415,543.5	4,415,543.5	0.2086	0.1909	4,477,652.6

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	23.00	235,718	235,718
User Defined Industrial	0.00	0.00	0.00		
Total	2,088.00	2,704.00	2,256.00	18,674,037	18,674,037

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
Quality Restaurant	14.70	55.00	10.00	12.00	69.00	19.00	38	18	44
User Defined Commercial	14.70	6.60	10.00	37.00	10.00	53.00	80	0	20
User Defined Industrial	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

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

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	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	153090	14.1645	2.2900e-003	2.8000e-004	14.3045
Total		144.2751	0.0233	2.8300e-003	145.7017

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

5.3 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	0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	143776	13.3027	2.1500e-003	2.6000e-004	13.4343
Total		136.6470	0.0221	2.6800e-003	137.9982

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, 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	0.9219	6.0000e-005	6.7200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0132	0.0132	3.0000e-005	0.0000	0.0140
Unmitigated	0.9219	6.0000e-005	6.7200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0132	0.0132	3.0000e-005	0.0000	0.0140

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	0.1101					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8112					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	6.7200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0132	0.0132	3.0000e-005	0.0000	0.0140
Total	0.9219	6.0000e-005	6.7200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0132	0.0132	3.0000e-005	0.0000	0.0140

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

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	0.1101					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8112					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	6.7200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0132	0.0132	3.0000e-005	0.0000	0.0140
Total	0.9219	6.0000e-005	6.7200e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0132	0.0132	3.0000e-005	0.0000	0.0140

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

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/yr			
Mitigated	4.9801	0.1938	4.6200e-003	11.2031
Unmitigated	5.6047	0.2153	5.1400e-003	12.5199

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	5.07335 / 0.563706	4.3320	0.1658	3.9600e-003	9.6551
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.51767 / 0.0968725	1.2727	0.0496	1.1800e-003	2.8648
User Defined Commercial	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		5.6047	0.2153	5.1400e-003	12.5199

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hotel	4.56602 / 0.338224	3.8441	0.1492	3.5600e-003	8.6343
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	1.3659 / 0.0581235	1.1360	0.0446	1.0600e-003	2.5688
User Defined Commercial	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		4.9801	0.1938	4.6200e-003	11.2031

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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

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	109.5	22.2275	1.3136	0.0000	55.0677
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	4.56	0.9256	0.0547	0.0000	2.2932
User Defined Commercial	18.94	3.8447	0.2272	0.0000	9.5250
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		26.9978	1.5955	0.0000	66.8859

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

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hotel	54.75	11.1138	0.6568	0.0000	27.5339
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	2.28	0.4628	0.0274	0.0000	1.1466
User Defined Commercial	9.47	1.9223	0.1136	0.0000	4.7625
User Defined Industrial	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	60	2447	0.73	Diesel
Emergency Generator	1	0	12	2447	0.5	Diesel
Emergency Generator	1	0	60	1367	0.73	Diesel

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

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type
Boiler	0	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	tons/yr										MT/yr					
Boiler - CNG (0 - 2 MMBTU)	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Emergency Generator - Diesel (750 - 9999 HP)	0.3247	0.1592	0.8280	1.5600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	150.7090	150.7090	0.0211	0.0000	151.2372
Total	0.3247	0.1592	0.8280	1.5600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	150.7090	150.7090	0.0211	0.0000	151.2372

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

Social Cost of Greenhouse Gas Emissions - 3% Discount Rate

GHG/Cost per metric ton	Alternative A		Alternative B		Alternative C		
	Tons	Cost	Tons	Cost	Tons	Cost	
Construction							
CO ₂	\$59	3,183.1	\$187,803	2,554.70	\$150,727	1,007.50	\$59,443
CH ₄	\$1,850	0.3	\$555	0.2	\$370	0.2	\$370
N ₂ O	\$21,500	0.2	\$4,300	0.2	\$4,300	0.0	\$0
Total Cost			\$192,658		\$155,397		\$59,813
Operation (2028)							
CO ₂	\$60	60,633.0	\$3,637,980	50,372.2	\$3,022,332	5,752.4	\$345,144
CH ₄	\$1,900	28.2	\$53,580	11.3	\$21,470	1.3	\$2,470
N ₂ O	\$22,000	2.6	\$57,200	2.1	\$46,200	0.3	\$6,600
Total Cost			\$3,748,760		\$3,090,002		\$354,214
Operation (2040)							
CO ₂	\$73	49,402.2	\$3,606,361	41,225.4	\$3,009,454	4,721.4	\$344,662
CH ₄	\$2,500	16	\$40,000	10.8	\$27,000	1.2	\$3,000
N ₂ O	\$28,000	2.0	\$56,000	1.7	\$47,600	0.2	\$5,600
Total Cost			\$3,702,361		\$3,084,054		\$353,262
Lifetime							
CO ₂		1,485,249.1	\$108,378,621	1,239,316.7	\$90,434,353	142,649.5	\$10,399,309
CH ₄		480.3	\$1,200,555	324.2	\$810,370	36.2	\$90,370
N ₂ O		60.2	\$1,684,300	51.2	\$1,432,300	6.0	\$168,000
Total Cost			\$111,263,476		\$92,677,023		\$10,657,679

Costs from IWG, 2021 (3% discount rate); Linear interpolation for 2027 and 2028

Social Cost of Greenhouse Gas Emissions - 2.5% Discount Rate

GHG/Cost per metric ton	Alternative A		Alternative B		Alternative C		
	Tons	Cost	Tons	Cost	Tons	Cost	
Construction							
CO ₂	\$81	3,183.1	\$257,831	2,554.70	\$206,931	1,007.50	\$81,608
CH ₄	\$2,320	0.3	\$696	0.2	\$464	0.2	\$464
N ₂ O	\$57,400	0.2	\$11,480	0.2	\$11,480	0.0	\$0
Total Cost			\$270,007		\$218,875		\$82,072
Operation (2028)							
CO ₂	\$84	60,633.0	\$5,093,172	50,372.20	\$4,231,265	5,752.4	\$483,202
CH ₄	\$2,380	28.2	\$67,116	11.3	\$26,894	1.3	\$3,094
N ₂ O	\$57,600	2.6	\$149,760	2.1	\$120,960	0.3	\$17,280
Total Cost			\$5,310,048		\$4,379,119		\$503,576
Operation (2040)							
CO ₂	\$103	49,402.2	\$5,088,427	41,225.4	\$4,246,216	4,721.4	\$486,304
CH ₄	\$3,100	16	\$49,600	10.8	\$33,480	1.2	\$3,720
N ₂ O	\$39,000	2.0	\$78,000	1.7	\$66,300	0.2	\$7,800
Total Cost			\$5,216,027		\$4,345,996		\$497,824
Lifetime							
CO ₂		1,485,249.10	\$152,910,629	1,239,316.70	\$127,593,417	142,649.50	\$14,670,734
CH ₄		480.30	\$1,488,696	324.20	\$1,004,864	36.20	\$112,064
N ₂ O		60.20	\$2,351,480	51.20	\$2,000,480	6.00	\$234,000
Total Cost			\$156,750,805		\$130,598,761		\$15,016,798

Costs from IWG, 2021 (2.5% discount rate); Linear interpolation for 2027 and 2028

Social Cost of Greenhouse Gas Emissions - 5% Discount Rate

GHG/Cost per metric ton	Alternative A		Alternative B		Alternative C		
	Tons	Cost	Tons	Cost	Tons	Cost	
Construction							
CO ₂	\$18	3,183.1	\$57,296	2,554.70	\$45,985	1,007.50	\$18,135
CH ₄	\$856	0.3	\$257	0.2	\$171	0.2	\$171
N ₂ O	\$7,200	0.2	\$1,440	0.2	\$1,440	0.0	\$0
Total Cost			\$58,993		\$47,596		\$18,306
Operation (2028)							
CO ₂	\$18	60,633.0	\$1,091,394	50,372.20	\$906,700	5,752.4	\$103,543
CH ₄	\$884	28.2	\$24,929	11.3	\$9,989	1.3	\$1,149
N ₂ O	\$7,400	2.6	\$19,240	2.1	\$15,540	0.3	\$2,220
Total Cost			\$1,135,563		\$932,229		\$106,912
Operation (2040)							
CO ₂	\$25	49,402.2	\$1,235,055	41,225.4	\$1,030,635	4,721.4	\$118,035
CH ₄	\$1,300	16	\$20,800	10.8	\$14,040	1.2	\$1,560
N ₂ O	\$10,000	2.0	\$20,000	1.7	\$17,000	0.2	\$2,000
Total Cost			\$1,275,855		\$1,061,675		\$121,595
Lifetime							
CO ₂		1,485,249.10	\$37,108,946	1,239,316.70	\$30,965,035	142,649.50	\$3,559,185
CH ₄		480.30	\$624,257	324.20	\$421,371	36.20	\$46,971
N ₂ O		60.20	\$601,440	51.20	\$511,440	6.00	\$60,000
Total Cost			\$38,334,643		\$31,897,846		\$3,666,156

Costs from IWG, 2021 (5% discount rate); Linear interpolation for 2027 and 2028

Social Cost of Greenhouse Gas Emissions - 95th Percentile Estimated Costs, 3% Discount Rate

GHG/Cost per metric ton	Alternative A		Alternative B		Alternative C		
	Tons	Cost	Tons	Cost	Tons	Cost	
Construction							
CO ₂	\$176	3,183.1	\$560,226	2,554.70	\$449,627	1,007.50	\$177,320
CH ₄	\$4,780	0.3	\$1,434	0.2	\$956	0.2	\$956
N ₂ O	\$56,400	0.2	\$11,280	0.2	\$11,280	0.0	\$0
Total Cost			\$572,940		\$461,863		\$178,276
Operation (2028)							
CO ₂	\$180	60,633.0	\$10,913,940	50,372.20	\$9,066,996	5,752.4	\$1,035,432
CH ₄	\$4,920	28.2	\$138,744	11.3	\$55,596	1.3	\$6,396
N ₂ O	\$57,600	2.6	\$149,760	2.1	\$120,960	0.3	\$17,280
Total Cost			\$11,202,444		\$9,243,552		\$1,059,108
Operation (2040)							
CO ₂	\$225	49,402.2	\$11,115,495	41,225.4	\$9,275,715	4,721.4	\$1,062,315
CH ₄	\$6,700	16	\$107,200	10.8	\$72,360	1.2	\$8,040
N ₂ O	\$74,000	2.0	\$148,000	1.7	\$125,800	0.2	\$14,800
Total Cost			\$11,370,695		\$9,473,875		\$1,085,155
Lifetime							
CO ₂		1,485,249.10	\$334,025,076	1,239,316.70	\$278,721,077	142,649.50	\$32,046,770
CH ₄		480.30	\$3,217,434	324.20	\$2,171,756	36.20	\$242,156
N ₂ O		60.20	\$4,451,280	51.20	\$3,785,280	6.00	\$444,000
Total Cost			\$341,693,790		\$284,678,113		\$32,732,926

Costs from IWG, 2021 (95th percentile at 3% discount rate); Linear interpolation for 2027 and 2028