

Appendix D

Air Quality, Greenhouse
Gas Emissions, and
Energy Calculations

Downtown Bishop Specific Plan - 2024 operation - Inyo County, Winter

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

**Downtown Bishop Specific Plan - 2024 operation
Inyo County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	373.00	Dwelling Unit	23.31	373,000.00	1067

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	34
Climate Zone	9			Operational Year	2024
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	691.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - This model is for operation of development under the Specific Plan assuming buildout in 2024. Operation emissions only.

Land Use -

Construction Phase - Operation only.

Off-road Equipment - Operation only.

Trips and VMT - Operation only.

Architectural Coating - Operation only.

Vehicle Trips -

Woodstoves - Solid fuel burning devices regulation per GPUAPCD Rule 431.

Area Coating -

Energy Use -

Water And Wastewater -

Downtown Bishop Specific Plan - 2024 operation - Inyo County, Winter

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	44.8114	8.5415	325.6218	0.9806		48.3108	48.3108		48.3108	48.3108	7,064.9280	4,396.5865	11,461.5145	33.1635	0.0796	12,314.3186
Energy	0.1749	1.4948	0.6361	9.5400e-003		0.1209	0.1209		0.1209	0.1209		1,908.2031	1,908.2031	0.0366	0.0350	1,919.5426
Mobile	14.7418	12.2302	92.9004	0.1875	18.3029	0.1624	18.4653	4.8766	0.1520	5.0287		19,361.4923	19,361.4923	1.1744	0.8303	19,638.2716
Total	59.7280	22.2665	419.1583	1.1777	18.3029	48.5940	66.8969	4.8766	48.5837	53.4603	7,064.9280	25,666.2819	32,731.2099	34.3744	0.9448	33,872.1328

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	44.8114	8.5415	325.6218	0.9806		48.3108	48.3108		48.3108	48.3108	7,064.9280	4,396.5865	11,461.5145	33.1635	0.0796	12,314.3186
Energy	0.1749	1.4948	0.6361	9.5400e-003		0.1209	0.1209		0.1209	0.1209		1,908.2031	1,908.2031	0.0366	0.0350	1,919.5426
Mobile	14.7418	12.2302	92.9004	0.1875	18.3029	0.1624	18.4653	4.8766	0.1520	5.0287		19,361.4923	19,361.4923	1.1744	0.8303	19,638.2716
Total	59.7280	22.2665	419.1583	1.1777	18.3029	48.5940	66.8969	4.8766	48.5837	53.4603	7,064.9280	25,666.2819	32,731.2099	34.3744	0.9448	33,872.1328

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	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	Architectural Coating	Architectural Coating	1/1/2023	12/30/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	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
Architectural Coating	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Downtown Bishop Specific Plan - 2024 operation - Inyo County, Winter

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	14.7418	12.2302	92.9004	0.1875	18.3029	0.1624	18.4653	4.8766	0.1520	5.0287		19,361.49 23	19,361.49 23	1.1744	0.8303	19,638.27 16
Unmitigated	14.7418	12.2302	92.9004	0.1875	18.3029	0.1624	18.4653	4.8766	0.1520	5.0287		19,361.49 23	19,361.49 23	1.1744	0.8303	19,638.27 16

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	2,730.36	3,036.22	2342.44	7,781,416	7,781,416
Total	2,730.36	3,036.22	2,342.44	7,781,416	7,781,416

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
Apartments Low Rise	10.80	7.30	7.50	42.30	19.60	38.10	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.500308	0.063374	0.195683	0.144943	0.038417	0.008637	0.004264	0.007030	0.000610	0.000800	0.029957	0.000698	0.005279

Downtown Bishop Specific Plan - 2024 operation - Inyo County, Winter

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

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1749	1.4948	0.6361	9.5400e-003		0.1209	0.1209		0.1209	0.1209		1,908.2031	1,908.2031	0.0366	0.0350	1,919.5426
NaturalGas Unmitigated	0.1749	1.4948	0.6361	9.5400e-003		0.1209	0.1209		0.1209	0.1209		1,908.2031	1,908.2031	0.0366	0.0350	1,919.5426

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

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	16219.7	0.1749	1.4948	0.6361	9.5400e-003		0.1209	0.1209		0.1209	0.1209		1,908.2031	1,908.2031	0.0366	0.0350	1,919.5426
Total		0.1749	1.4948	0.6361	9.5400e-003		0.1209	0.1209		0.1209	0.1209		1,908.2031	1,908.2031	0.0366	0.0350	1,919.5426

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	16.2197	0.1749	1.4948	0.6361	9.5400e-003		0.1209	0.1209		0.1209	0.1209		1,908.2031	1,908.2031	0.0366	0.0350	1,919.5426
Total		0.1749	1.4948	0.6361	9.5400e-003		0.1209	0.1209		0.1209	0.1209		1,908.2031	1,908.2031	0.0366	0.0350	1,919.5426

6.0 Area Detail

6.1 Mitigation Measures Area

Downtown Bishop Specific Plan - 2024 operation - Inyo County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	44.8114	8.5415	325.6218	0.9806		48.3108	48.3108		48.3108	48.3108	7,064.9280	4,396.5865	11,461.5145	33.1635	0.0796	12,314.3186
Unmitigated	44.8114	8.5415	325.6218	0.9806		48.3108	48.3108		48.3108	48.3108	7,064.9280	4,396.5865	11,461.5145	33.1635	0.0796	12,314.3186

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	3.1972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.9822					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	32.7071	8.1871	294.8618	0.9790		48.1403	48.1403		48.1403	48.1403	7,064.9280	4,341.1765	11,406.1045	33.1103	0.0796	12,257.5795
Landscaping	0.9249	0.3544	30.7600	1.6200e-003		0.1705	0.1705		0.1705	0.1705		55.4100	55.4100	0.0532		56.7391
Total	44.8114	8.5415	325.6218	0.9806		48.3108	48.3108		48.3108	48.3108	7,064.9280	4,396.5865	11,461.5145	33.1635	0.0796	12,314.3186

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.1972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.9822					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	32.7071	8.1871	294.8618	0.9790		48.1403	48.1403		48.1403	48.1403	7,064.9280	4,341.1765	11,406.1045	33.1103	0.0796	12,257.5795
Landscaping	0.9249	0.3544	30.7600	1.6200e-003		0.1705	0.1705		0.1705	0.1705		55.4100	55.4100	0.0532		56.7391
Total	44.8114	8.5415	325.6218	0.9806		48.3108	48.3108		48.3108	48.3108	7,064.9280	4,396.5865	11,461.5145	33.1635	0.0796	12,314.3186

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Downtown Bishop Specific Plan - 2024 operation - Inyo County, Winter

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Downtown Bishop Specific Plan - 2024 operation - Inyo County, Winter

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

Downtown Bishop Specific Plan - 2024 operation

Inyo County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	373.00	Dwelling Unit	23.31	373,000.00	1067

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	34
Climate Zone	9	Operational Year		2024	
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	691.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - This model is for operation of development under the Specific Plan assuming buildout in 2024. Operation emissions only.

Land Use -

Construction Phase - Operation only.

Off-road Equipment - Operation only.

Trips and VMT - Operation only.

Architectural Coating - Operation only.

Vehicle Trips -

Woodstoves - Solid fuel burning devices regulation per GPUAPCD Rule 431.

Area Coating -

Energy Use -

Water And Wastewater -

Downtown Bishop Specific Plan - 2024 operation - Inyo County, Winter

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	44.8114	8.5415	325.6218	0.9806		48.3108	48.3108		48.3108	48.3108	7,064.9280	4,396.5865	11,461.5145	33.1635	0.0796	12,314.3186
Energy	0.1749	1.4948	0.6361	9.5400e-003		0.1209	0.1209		0.1209	0.1209		1,908.2031	1,908.2031	0.0366	0.0350	1,919.5426
Mobile	14.7418	12.2302	92.9004	0.1875	18.3029	0.1624	18.4653	4.8766	0.1520	5.0287		19,361.4923	19,361.4923	1.1744	0.8303	19,638.2716
Total	59.7280	22.2665	419.1583	1.1777	18.3029	48.5940	66.8969	4.8766	48.5837	53.4603	7,064.9280	25,666.2819	32,731.2099	34.3744	0.9448	33,872.1328

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	44.8114	8.5415	325.6218	0.9806		48.3108	48.3108		48.3108	48.3108	7,064.9280	4,396.5865	11,461.5145	33.1635	0.0796	12,314.3186
Energy	0.1749	1.4948	0.6361	9.5400e-003		0.1209	0.1209		0.1209	0.1209		1,908.2031	1,908.2031	0.0366	0.0350	1,919.5426
Mobile	14.7418	12.2302	92.9004	0.1875	18.3029	0.1624	18.4653	4.8766	0.1520	5.0287		19,361.4923	19,361.4923	1.1744	0.8303	19,638.2716
Total	59.7280	22.2665	419.1583	1.1777	18.3029	48.5940	66.8969	4.8766	48.5837	53.4603	7,064.9280	25,666.2819	32,731.2099	34.3744	0.9448	33,872.1328

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	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	Architectural Coating	Architectural Coating	1/1/2023	12/30/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	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
Architectural Coating	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Downtown Bishop Specific Plan - 2024 operation - Inyo County, Winter

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	14.7418	12.2302	92.9004	0.1875	18.3029	0.1624	18.4653	4.8766	0.1520	5.0287		19,361.49 23	19,361.49 23	1.1744	0.8303	19,638.27 16
Unmitigated	14.7418	12.2302	92.9004	0.1875	18.3029	0.1624	18.4653	4.8766	0.1520	5.0287		19,361.49 23	19,361.49 23	1.1744	0.8303	19,638.27 16

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	2,730.36	3,036.22	2342.44	7,781,416	7,781,416
Total	2,730.36	3,036.22	2,342.44	7,781,416	7,781,416

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
Apartments Low Rise	10.80	7.30	7.50	42.30	19.60	38.10	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.500308	0.063374	0.195683	0.144943	0.038417	0.008637	0.004264	0.007030	0.000610	0.000800	0.029957	0.000698	0.005279

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

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1749	1.4948	0.6361	9.5400e-003		0.1209	0.1209		0.1209	0.1209		1,908.2031	1,908.2031	0.0366	0.0350	1,919.5426
NaturalGas Unmitigated	0.1749	1.4948	0.6361	9.5400e-003		0.1209	0.1209		0.1209	0.1209		1,908.2031	1,908.2031	0.0366	0.0350	1,919.5426

Downtown Bishop Specific Plan - 2024 operation - Inyo County, Winter

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	16219.7	0.1749	1.4948	0.6361	9.5400e-003		0.1209	0.1209		0.1209	0.1209		1,908.2031	1,908.2031	0.0366	0.0350	1,919.5426
Total		0.1749	1.4948	0.6361	9.5400e-003		0.1209	0.1209		0.1209	0.1209		1,908.2031	1,908.2031	0.0366	0.0350	1,919.5426

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					
Apartments Low Rise	16.2197	0.1749	1.4948	0.6361	9.5400e-003		0.1209	0.1209		0.1209	0.1209		1,908.2031	1,908.2031	0.0366	0.0350	1,919.5426
Total		0.1749	1.4948	0.6361	9.5400e-003		0.1209	0.1209		0.1209	0.1209		1,908.2031	1,908.2031	0.0366	0.0350	1,919.5426

6.0 Area Detail

6.1 Mitigation Measures Area

Downtown Bishop Specific Plan - 2024 operation - Inyo County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	44.8114	8.5415	325.6218	0.9806		48.3108	48.3108		48.3108	48.3108	7,064.9280	4,396.5865	11,461.5145	33.1635	0.0796	12,314.3186
Unmitigated	44.8114	8.5415	325.6218	0.9806		48.3108	48.3108		48.3108	48.3108	7,064.9280	4,396.5865	11,461.5145	33.1635	0.0796	12,314.3186

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	3.1972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.9822					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	32.7071	8.1871	294.8618	0.9790		48.1403	48.1403		48.1403	48.1403	7,064.9280	4,341.1765	11,406.1045	33.1103	0.0796	12,257.5795
Landscaping	0.9249	0.3544	30.7600	1.6200e-003		0.1705	0.1705		0.1705	0.1705		55.4100	55.4100	0.0532		56.7391
Total	44.8114	8.5415	325.6218	0.9806		48.3108	48.3108		48.3108	48.3108	7,064.9280	4,396.5865	11,461.5145	33.1635	0.0796	12,314.3186

Downtown Bishop Specific Plan - 2024 operation - Inyo County, Winter

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.1972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.9822					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	32.7071	8.1871	294.8618	0.9790		48.1403	48.1403		48.1403	48.1403	7,064.9280	4,341.1765	11,406.1045	33.1103	0.0796	12,257.5795
Landscaping	0.9249	0.3544	30.7600	1.6200e-003		0.1705	0.1705		0.1705	0.1705		55.4100	55.4100	0.0532		56.7391
Total	44.8114	8.5415	325.6218	0.9806		48.3108	48.3108		48.3108	48.3108	7,064.9280	4,396.5865	11,461.5145	33.1635	0.0796	12,314.3186

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Downtown Bishop Specific Plan - 2024 operation - Inyo County, Winter

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Downtown Bishop Specific Plan - 2024 operation - Inyo County, Summer

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

**Downtown Bishop Specific Plan - 2024 operation
Inyo County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	373.00	Dwelling Unit	23.31	373,000.00	1067

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	34
Climate Zone	9			Operational Year	2024
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	691.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - This model is for operation of development under the Specific Plan assuming buildout in 2024. Operation emissions only.

Land Use -

Construction Phase - Operation only.

Off-road Equipment - Operation only.

Trips and VMT - Operation only.

Architectural Coating - Operation only.

Vehicle Trips -

Woodstoves - Solid fuel burning devices regulation per GPUAPCD Rule 431.

Area Coating -

Energy Use -

Water And Wastewater -

Downtown Bishop Specific Plan - 2024 operation - Inyo County, Summer

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	44.8114	8.5415	325.6218	0.9806		48.3108	48.3108		48.3108	48.3108	7,064.9280	4,396.5865	11,461.5145	33.1635	0.0796	12,314.3186
Energy	0.1749	1.4948	0.6361	9.5400e-003		0.1209	0.1209		0.1209	0.1209		1,908.2031	1,908.2031	0.0366	0.0350	1,919.5426
Mobile	12.0725	11.8964	92.5868	0.1880	18.3029	0.1623	18.4652	4.8766	0.1520	5.0286		19,414.9672	19,414.9672	1.1717	0.8191	19,688.3533
Total	57.0588	21.9327	418.8446	1.1782	18.3029	48.5939	66.8969	4.8766	48.5836	53.4603	7,064.9280	25,719.7568	32,784.6848	34.3717	0.9337	33,922.2145

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	44.8114	8.5415	325.6218	0.9806		48.3108	48.3108		48.3108	48.3108	7,064.9280	4,396.5865	11,461.5145	33.1635	0.0796	12,314.3186
Energy	0.1749	1.4948	0.6361	9.5400e-003		0.1209	0.1209		0.1209	0.1209		1,908.2031	1,908.2031	0.0366	0.0350	1,919.5426
Mobile	12.0725	11.8964	92.5868	0.1880	18.3029	0.1623	18.4652	4.8766	0.1520	5.0286		19,414.9672	19,414.9672	1.1717	0.8191	19,688.3533
Total	57.0588	21.9327	418.8446	1.1782	18.3029	48.5939	66.8969	4.8766	48.5836	53.4603	7,064.9280	25,719.7568	32,784.6848	34.3717	0.9337	33,922.2145

Downtown Bishop Specific Plan - 2024 operation - Inyo County, Summer

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

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	1/1/2023	12/30/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	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
Architectural Coating	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Downtown Bishop Specific Plan - 2024 operation - Inyo County, Summer

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	12.0725	11.8964	92.5868	0.1880	18.3029	0.1623	18.4652	4.8766	0.1520	5.0286		19,414.9672	19,414.9672	1.1717	0.8191	19,688.3533
Unmitigated	12.0725	11.8964	92.5868	0.1880	18.3029	0.1623	18.4652	4.8766	0.1520	5.0286		19,414.9672	19,414.9672	1.1717	0.8191	19,688.3533

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	2,730.36	3,036.22	2342.44	7,781,416	7,781,416
Total	2,730.36	3,036.22	2,342.44	7,781,416	7,781,416

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
Apartments Low Rise	10.80	7.30	7.50	42.30	19.60	38.10	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.500308	0.063374	0.195683	0.144943	0.038417	0.008637	0.004264	0.007030	0.000610	0.000800	0.029957	0.000698	0.005279

Downtown Bishop Specific Plan - 2024 operation - Inyo County, Summer

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

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1749	1.4948	0.6361	9.5400e-003		0.1209	0.1209		0.1209	0.1209		1,908.2031	1,908.2031	0.0366	0.0350	1,919.5426
NaturalGas Unmitigated	0.1749	1.4948	0.6361	9.5400e-003		0.1209	0.1209		0.1209	0.1209		1,908.2031	1,908.2031	0.0366	0.0350	1,919.5426

Downtown Bishop Specific Plan - 2024 operation - Inyo County, Summer

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	16219.7	0.1749	1.4948	0.6361	9.5400e-003		0.1209	0.1209		0.1209	0.1209		1,908.2031	1,908.2031	0.0366	0.0350	1,919.5426
Total		0.1749	1.4948	0.6361	9.5400e-003		0.1209	0.1209		0.1209	0.1209		1,908.2031	1,908.2031	0.0366	0.0350	1,919.5426

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					
Apartments Low Rise	16.2197	0.1749	1.4948	0.6361	9.5400e-003		0.1209	0.1209		0.1209	0.1209		1,908.2031	1,908.2031	0.0366	0.0350	1,919.5426
Total		0.1749	1.4948	0.6361	9.5400e-003		0.1209	0.1209		0.1209	0.1209		1,908.2031	1,908.2031	0.0366	0.0350	1,919.5426

6.0 Area Detail

6.1 Mitigation Measures Area

Downtown Bishop Specific Plan - 2024 operation - Inyo County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	44.8114	8.5415	325.6218	0.9806		48.3108	48.3108		48.3108	48.3108	7,064.9280	4,396.5865	11,461.5145	33.1635	0.0796	12,314.3186
Unmitigated	44.8114	8.5415	325.6218	0.9806		48.3108	48.3108		48.3108	48.3108	7,064.9280	4,396.5865	11,461.5145	33.1635	0.0796	12,314.3186

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	3.1972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.9822					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	32.7071	8.1871	294.8618	0.9790		48.1403	48.1403		48.1403	48.1403	7,064.9280	4,341.1765	11,406.1045	33.1103	0.0796	12,257.5795
Landscaping	0.9249	0.3544	30.7600	1.6200e-003		0.1705	0.1705		0.1705	0.1705		55.4100	55.4100	0.0532		56.7391
Total	44.8114	8.5415	325.6218	0.9806		48.3108	48.3108		48.3108	48.3108	7,064.9280	4,396.5865	11,461.5145	33.1635	0.0796	12,314.3186

Downtown Bishop Specific Plan - 2024 operation - Inyo County, Summer

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.1972					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.9822					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	32.7071	8.1871	294.8618	0.9790		48.1403	48.1403		48.1403	48.1403	7,064.9280	4,341.1765	11,406.1045	33.1103	0.0796	12,257.5795
Landscaping	0.9249	0.3544	30.7600	1.6200e-003		0.1705	0.1705		0.1705	0.1705		55.4100	55.4100	0.0532		56.7391
Total	44.8114	8.5415	325.6218	0.9806		48.3108	48.3108		48.3108	48.3108	7,064.9280	4,396.5865	11,461.5145	33.1635	0.0796	12,314.3186

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Downtown Bishop Specific Plan - 2024 operation - Inyo County, Summer

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Downtown Bishop Specific Plan - 2024 operation - Inyo County, Annual

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

Downtown Bishop Specific Plan - 2024 operation

Inyo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	373.00	Dwelling Unit	23.31	373,000.00	1067

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	34
Climate Zone	9	Operational Year		2024	
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	691.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - This model is for operation of development under the Specific Plan assuming buildout in 2024. Operation emissions only.

Land Use -

Construction Phase - Operation only.

Off-road Equipment - Operation only.

Trips and VMT - Operation only.

Architectural Coating - Operation only.

Vehicle Trips -

Woodstoves - Solid fuel burning devices regulation per GPUAPCD Rule 431.

Area Coating -

Energy Use -

Water And Wastewater -

Downtown Bishop Specific Plan - 2024 operation - Inyo County, Annual

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

Solid Waste -

Construction Off-road Equipment Mitigation -

Energy Mitigation - Approximately 431 kW solar required per 2019 Title 24 resulting in approximately 755,340 kWh.

Water Mitigation - 20% potable water/waste water reduction per 2019 CALGreen, not included in defaults.

Waste Mitigation - 25% solid waste diversion per AB 341 not included in defaults.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	251,775.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	755,325.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblFireplaces	NumberGas	205.15	205.00
tblFireplaces	NumberNoFireplace	37.30	38.00
tblFireplaces	NumberWood	130.55	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	WorkerTripNumber	54.00	0.00
tblWoodstoves	NumberCatalytic	18.65	65.00
tblWoodstoves	NumberNoncatalytic	18.65	65.00

2.0 Emissions Summary

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

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

Downtown Bishop Specific Plan - 2024 operation - Inyo County, Annual

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.4645	0.3676	14.8577	0.0403		1.9891	1.9891		1.9891	1.9891	262.7770	165.9923	428.7692	1.2359	2.9600e-003	460.5480
Energy	0.0319	0.2728	0.1161	1.7400e-003		0.0221	0.0221		0.0221	0.0221	0.0000	788.6682	788.6682	0.0286	8.5200e-003	791.9236
Mobile	1.7763	2.1294	15.1775	0.0292	2.9228	0.0264	2.9492	0.7800	0.0247	0.8048	0.0000	2,739.9055	2,739.9055	0.1847	0.1289	2,782.9231
Waste						0.0000	0.0000		0.0000	0.0000	34.8292	0.0000	34.8292	2.0584	0.0000	86.2878
Water						0.0000	0.0000		0.0000	0.0000	7.7101	152.7512	160.4613	0.7992	0.0196	186.2760
Total	5.2727	2.7698	30.1513	0.0713	2.9228	2.0376	4.9604	0.7800	2.0359	2.8159	305.3162	3,847.3171	4,152.6334	4.3067	0.1599	4,307.9585

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

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.4645	0.3676	14.8577	0.0403		1.9891	1.9891		1.9891	1.9891	262.7770	165.9923	428.7692	1.2359	2.9600e-003	460.5480
Energy	0.0319	0.2728	0.1161	1.7400e-003		0.0221	0.0221		0.0221	0.0221	0.0000	551.5845	551.5845	0.0173	7.1500e-003	554.1488
Mobile	1.7763	2.1294	15.1775	0.0292	2.9228	0.0264	2.9492	0.7800	0.0247	0.8048	0.0000	2,739.9055	2,739.9055	0.1847	0.1289	2,782.9231
Waste						0.0000	0.0000		0.0000	0.0000	26.1219	0.0000	26.1219	1.5438	0.0000	64.7159
Water						0.0000	0.0000		0.0000	0.0000	6.1680	122.2010	128.3690	0.6393	0.0157	149.0208
Total	5.2727	2.7698	30.1513	0.0713	2.9228	2.0376	4.9604	0.7800	2.0359	2.8159	295.0669	3,579.6832	3,874.7501	3.6210	0.1546	4,011.3566

	ROG	NOx	CO	SO2	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	3.36	6.96	6.69	15.92	3.30	6.88

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	1/1/2023	12/30/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

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

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	0	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
Architectural Coating	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.7763	2.1294	15.1775	0.0292	2.9228	0.0264	2.9492	0.7800	0.0247	0.8048	0.0000	2,739.9055	2,739.9055	0.1847	0.1289	2,782.9231
Unmitigated	1.7763	2.1294	15.1775	0.0292	2.9228	0.0264	2.9492	0.7800	0.0247	0.8048	0.0000	2,739.9055	2,739.9055	0.1847	0.1289	2,782.9231

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	2,730.36	3,036.22	2342.44	7,781,416	7,781,416
Total	2,730.36	3,036.22	2,342.44	7,781,416	7,781,416

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
Apartments Low Rise	10.80	7.30	7.50	42.30	19.60	38.10	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.500308	0.063374	0.195683	0.144943	0.038417	0.008637	0.004264	0.007030	0.000610	0.000800	0.029957	0.000698	0.005279

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

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	235.6600	235.6600	0.0112	1.3600e-003	236.3470
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	472.7438	472.7438	0.0225	2.7300e-003	474.1218
NaturalGas Mitigated	0.0319	0.2728	0.1161	1.7400e-003		0.0221	0.0221		0.0221	0.0221	0.0000	315.9244	315.9244	6.0600e-003	5.7900e-003	317.8018
NaturalGas Unmitigated	0.0319	0.2728	0.1161	1.7400e-003		0.0221	0.0221		0.0221	0.0221	0.0000	315.9244	315.9244	6.0600e-003	5.7900e-003	317.8018

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	5.9202e+006	0.0319	0.2728	0.1161	1.7400e-003		0.0221	0.0221		0.0221	0.0221	0.0000	315.9244	315.9244	6.0600e-003	5.7900e-003	317.8018
Total		0.0319	0.2728	0.1161	1.7400e-003		0.0221	0.0221		0.0221	0.0221	0.0000	315.9244	315.9244	6.0600e-003	5.7900e-003	317.8018

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	5.9202e+006	0.0319	0.2728	0.1161	1.7400e-003		0.0221	0.0221		0.0221	0.0221	0.0000	315.9244	315.9244	6.0600e-003	5.7900e-003	317.8018
Total		0.0319	0.2728	0.1161	1.7400e-003		0.0221	0.0221		0.0221	0.0221	0.0000	315.9244	315.9244	6.0600e-003	5.7900e-003	317.8018

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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	1.50614e+006	472.7438	0.0225	2.7300e-003	474.1218
Total		472.7438	0.0225	2.7300e-003	474.1218

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	750804	235.6600	0.0112	1.3600e-003	236.3470
Total		235.6600	0.0112	1.3600e-003	236.3470

6.0 Area Detail

6.1 Mitigation Measures Area

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.4645	0.3676	14.8577	0.0403		1.9891	1.9891		1.9891	1.9891	262.7770	165.9923	428.7692	1.2359	2.9600e-003	460.5480
Unmitigated	3.4645	0.3676	14.8577	0.0403		1.9891	1.9891		1.9891	1.9891	262.7770	165.9923	428.7692	1.2359	2.9600e-003	460.5480

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	0.5835					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.4568					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.3410	0.3357	12.0893	0.0401		1.9738	1.9738		1.9738	1.9738	262.7770	161.4682	424.2452	1.2315	2.9600e-003	455.9155
Landscaping	0.0832	0.0319	2.7684	1.5000e-004		0.0153	0.0153		0.0153	0.0153	0.0000	4.5240	4.5240	4.3400e-003	0.0000	4.6326
Total	3.4645	0.3676	14.8577	0.0403		1.9891	1.9891		1.9891	1.9891	262.7770	165.9923	428.7692	1.2359	2.9600e-003	460.5480

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

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.5835					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.4568					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	1.3410	0.3357	12.0893	0.0401		1.9738	1.9738		1.9738	1.9738	262.7770	161.4682	424.2452	1.2315	2.9600e-003	455.9155
Landscaping	0.0832	0.0319	2.7684	1.5000e-004		0.0153	0.0153		0.0153	0.0153	0.0000	4.5240	4.5240	4.3400e-003	0.0000	4.6326
Total	3.4645	0.3676	14.8577	0.0403		1.9891	1.9891		1.9891	1.9891	262.7770	165.9923	428.7692	1.2359	2.9600e-003	460.5480

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	128.3690	0.6393	0.0157	149.0208
Unmitigated	160.4613	0.7992	0.0196	186.2760

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	24.3025 / 15.3211	160.4613	0.7992	0.0196	186.2760
Total		160.4613	0.7992	0.0196	186.2760

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	19.442 / 12.2569	128.3690	0.6393	0.0157	149.0208
Total		128.3690	0.6393	0.0157	149.0208

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	26.1219	1.5438	0.0000	64.7159
Unmitigated	34.8292	2.0584	0.0000	86.2878

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	171.58	34.8292	2.0584	0.0000	86.2878
Total		34.8292	2.0584	0.0000	86.2878

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	128.685	26.1219	1.5438	0.0000	64.7159
Total		26.1219	1.5438	0.0000	64.7159

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Construction Energy Use

Off-Road Construction Equipment Energy Use												
Phase	Equipment	Fuel	HP	Load Factor	Equipment Count	Hours/Day	Work Days	Gallons /HP-Hr	Gallons /Hour	Gallons /Day	Total Gallons	Total kBtu
Demolition	Concrete/Industrial Saws	Diesel	81	0.73	1	8.0	20	0.0443508	2.62246	20.980	419.6	58,324
	Rubber Tired Dozers	Diesel	247	0.4	1	8.0	20	0.0204825	2.02367	16.189	323.8	45,006
	Tractors/Loaders/Backhoes	Diesel	97	0.37	3	8.0	20	0.0191272	0.68647	16.475	329.5	45,802
Site Preparation	Graders	Diesel	187	0.41	1	8.0	2	0.0211573	1.62213	12.977	26.0	3,608
	Rubber Tired Dozers	Diesel	247	0.4	1	7.0	2	0.0204825	2.02367	14.166	28.3	3,938
	Tractors/Loaders/Backhoes	Diesel	97	0.37	1	8.0	2	0.0191272	0.68647	5.492	11.0	1,527
Grading	Graders	Diesel	187	0.41	1	8.0	4	0.0211573	1.62213	12.977	51.9	7,215
	Rubber Tired Dozers	Diesel	247	0.4	1	8.0	4	0.0204825	2.02367	16.189	64.8	9,001
	Tractors/Loaders/Backhoes	Diesel	97	0.37	2	7.0	4	0.0191272	0.68647	9.611	38.4	5,344
Building Construction	Cranes	Diesel	231	0.29	1	6.0	200	0.0148891	0.99742	5.985	1,196.9	166,370
	Forklifts	Diesel	89	0.2	1	6.0	200	0.0103808	0.18478	1.109	221.7	30,821
	Generator Sets	Diesel	84	0.74	1	8.0	200	0.0156472	0.97263	7.781	1,556.2	216,313
	Tractors/Loaders/Backhoes	Diesel	97	0.37	1	6.0	200	0.0191272	0.68647	4.119	823.8	114,504
	Welders	Diesel	46	0.45	3	8.0	200	0.0258349	0.53478	12.835	2,567.0	356,807
Paving	Pavers	Diesel	130	0.42	1	6.0	10	0.0215282	1.17544	7.053	70.5	9,803
	Paving Equipment	Diesel	132	0.36	1	8.0	10	0.0183244	0.87077	6.966	69.7	9,683
	Rollers	Diesel	80	0.38	1	7.0	10	0.0194117	0.59012	4.131	41.3	5,742
	Tractors/Loaders/Backhoes	Diesel	97	0.37	1	8.0	10	0.0191272	0.68647	5.492	54.9	7,634
Architectural Coating	Air Compressors	Diesel	78	0.48	1	6.0	10	0.0156472	0.58583	3.515	35.1	4,886
Project Construction Off-Road Total											7,930.4	1,102,327

On-Road Construction Energy Use												
Phase	Trip Type (Fleet Mix)	Trips	Distance (miles)	Work Days	Total VMT	gallons diesel/VMT	Total diesel gallons	gallons gas/VMT	Total gasoline gallons	Total kBtu		
Demolition	Worker (LDA, LDT1, LDT2)	13	10.8	20	2808.0	8.89879E-05	0.25	0.039636875	111.30	13,836		
Site Preparation	Worker (LDA, LDT1, LDT2)	8	10.8	2	172.8	8.89879E-05	0.02	0.039636875	6.85	851		
Grading	Worker (LDA, LDT1, LDT2)	10	10.8	4	432.0	8.89879E-05	0.04	0.039636875	17.12	2,129		
Building Construction	Worker (LDA, LDT1, LDT2)	14	10.8	200	30240.0	8.89879E-05	2.69	0.039636875	1,198.62	149,003		
	Vendor (HHDT, MHDT)	14	7.3	200	20440.0	0.153998135	3147.72	0.012182636	249.01	468,411		
Paving	Worker (LDA, LDT1, LDT2)	13	10.8	10	1404.0	8.89879E-05	0.12	0.039636875	55.65	6,918		
Architectural Coating	Worker (LDA, LDT1, LDT2)	3	10.8	10	324.0	8.89879E-05	0.03	0.039636875	12.84	1,596		
Project Construction On-Road Total					55820.8		3150.9		1651.4	642744.3		

Notes:

1. Off-road equipment types and horsepower from CalEEMod defaults.
2. Off-road equipment count and hours from CalEEMod defaults.
3. Off-road fuel consumption factors from CARB OFFROAD2021- Web Database, for Inyo County, aggregate model years. <https://arb.ca.gov/emfac/emissions-inventory/>.
4. Fuel consumption data unavailable for concrete/industrial saws in Inyo County, data from Mojave Desert Air Basin used.
5. Fuel consumption data unavailable for cement and mortar mixers.
6. On-road fleet mix and trip distances from CalEEMod defaults.
7. On-road fuel consumption factors weighted average for fleet mix from CARB EMFAC2021, for Inyo County, aggregate model years, aggregate speeds. <https://arb.ca.gov/emfac/emissions-inventory/>
8. 1 Gallon of diesel = 139 kBtu; 1 gallon of gasoline = 124 kBtu.

Construction Energy Summary			
Source	Gallons Diesel	Gallons Gas	kBtu
Off-Road Construction Equipment	7,930	-	1,102,327
On-Road Construction Traffic	3,151	1,651	642,744
Project Construction Total	11,081	1,651	1,745,071

Annual Operational Energy Use

Project VMT
7,781,416

Project On-Road Project Operational Energy Use										
Category	Mix	Diesel Gallons/VMT	Diesel Gallons	Gasoline Gallons/VMT	Gasoline Gallons	Natural Gas Gallons /VMT	Natural Gas Gallons	Electricity kWh/VMT	kWh Electricity	Total kBtu
LDA	50.0308%	0.000047	182.0	0.0302829	117,894.7	-	0.0	0.02756153	107,299.9	15,010,356
LDT1	6.3374%	0.000007	3.3	0.0393323	19,396.3	-	0.0	0.00208549	1,028.4	2,409,108
LDT2	19.5683%	0.000101	153.8	0.0393474	59,913.9	-	0.0	0.00513508	7,819.1	7,477,383
MDV	14.4943%	0.000601	677.7	0.0482342	54,401.5	-	0.0	0.00648377	7,312.8	6,864,947
LHDT1	3.8417%	0.021517	6,432.1	0.0376765	11,263.0	-	0.0	0.00878562	2,626.4	2,299,635
LHDT2	0.8637%	0.042062	2,826.9	0.0204093	1,371.7	-	0.0	0.00760894	511.4	564,774
MHDT	0.4264%	0.098835	3,279.4	0.0143352	475.6	0.0014428	47.9	0.01831297	607.6	521,268
HHDT	0.7030%	0.153837	8,415.4	0.0000332	1.8	0.0042084	230.2	0.01829043	1,000.5	1,194,464
OBUS	0.0610%	0.065712	311.9	0.0754539	358.2	0.0077971	37.0	0.00800519	38.0	91,287
UBUS	0.0800%	0.031518	196.2	0.0653467	406.8	0.1543382	960.8	0.00000000	0.0	165,721
MCY	2.9957%	-	0.0	0.0237698	5,540.9	-	0.0	-	0.0	687,075
SBUS	0.0698%	0.034292	186.3	0.0505872	274.8	0.0705475	383.2	0.00743987	40.4	95,196
MH	0.5279%	0.030202	1,240.6	0.1405530	5,773.7	-	0.0	-	0.0	888,381
Annual Total			23,905.6		277,072.7		1,659.0		128,284.6	38,269,596

Project Electricity and Natural Gas			
Type	Source	kWh	kBtu
Natural Gas	Hot Water, Heating	-	5,920,200
Electricity	Buildings, Lighting	679,532	750,804
Total		679,532	6,671,004

Project Water and Wastewater Energy Use							
Indoor (Mgal)	Outdoor (Mgal)	Supply (kWh/Mgal)	Treat Water (kWh/Mgal)	Distribute (kWh/Mgal)	Treat Wastewater (kWh/Mgal)	kWh	kBtu
24.3025	15.3211	9,727	111	1,272	1,911	469,497	1,601,990

Notes:

- VMT, electricity, and natural gas from project CalEEMod annual output.
- Fleet mix from CalEEMod default for Inyo County
- Fuel consumption factors weighted average for fleet mix from CARB EMFAC2021, for Inyo County, aggregate model years for 2024, aggregate speeds.
- Electricity use includes reduction of 755,340 kWhr from solar generation to meet 2019 Title 24 requirements (estimated 431.1 kW).
- Indoor and outdoor water use from project CalEEMod annual output. Water electricity intensity factors from CalEEMod default for Inyo County.
- 1 Gallon of diesel = 139 kBtu; 1 gallon of gasoline = 124 kBtu; 1 gallon of natural gas = 91.6 kBtu; 1 kWh = 3.412142 kBtu.

Project Operational Total		
Energy Type	Quantity	kBtu
Gasoline (Gallons)	277,073	34,357,019
Diesel (Gallons)	23,906	3,322,883
Natural Gas (kBtu)	6,072,168	6,072,168
Electricity (kWh)	1,277,313	4,358,375
Total		48,110,446

Model Output: OFFROAD2021 (v1.0.1) Emissions Inventory

Region Type: County

Region: Inyo

Calendar Year: 2023

Scenario: All Adopted Rules - Exhaust

Vehicle Classification: OFFROAD2021 Equipment Types

Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Year	Vehicle Category	Model Year	Horsepower Bin	Fuel	Fuel Consumption	Total_Activity_hpy	Total_Population	Horsepower_Hours_hpy	Gallons/hp-hour
Inyo	2023	Construction and Mining - Cranes	Aggregate	300	Diesel	770.91	235.19	0.49	51776.46	0.01488912
Inyo	2023	Construction and Mining - Graders	Aggregate	300	Diesel	2903.82	638.63	0.83	137249.60	0.02115725
Mojave Des	2023	Construction and Mining - Misc - Concrete/Industrial Saws	Aggregate	50	Diesel	806.65	551.15	0.90	18187.95	0.04435079
Inyo	2023	Construction and Mining - Pavers	Aggregate	175	Diesel	304.46	89.58	0.23	14142.31	0.02152816
Inyo	2023	Construction and Mining - Paving Equipment	Aggregate	175	Diesel	128.83	48.32	0.10	7030.72	0.01832436
Inyo	2023	Construction and Mining - Rollers	Aggregate	100	Diesel	734.79	433.77	1.29	37852.71	0.01941173
Inyo	2023	Construction and Mining - Rubber Tired Dozers	Aggregate	300	Diesel	102.65	22.96	0.03	5011.67	0.02048249
Inyo	2023	Construction and Mining - Tractors/Loaders/Backhoes	Aggregate	100	Diesel	11300.72	7096.10	11.20	590820.26	0.01912716
Inyo	2023	Industrial - Forklifts	Aggregate	100	Diesel	711.06	830.91	1.08	68497.52	0.01038079
Inyo	2023	Portable Equipment - Non-Rental Compressor	Aggregate	100	Diesel	926.32	667.71	1.64	59200.38	0.01564724
Inyo	2023	Portable Equipment - Non-Rental Generator	Aggregate	100	Diesel	8797.96	5569.12	4.10	562269.27	0.01564724
Inyo	2023	Light Commercial - Misc - Welders	Aggregate	50	Diesel	4190.20	3525.90	5.50	162191.40	0.02583491

Source: EMFAC2021 (v1.0.1) Emissions Inventory
 Region Type: County
 Region: Inyo
 Calendar Year: 2023
 Season: Annual
 Vehicle Classification: EMFAC2007 Categories
 Units: miles/year for VMT, 1000 gallons/year for Fuel Consumption

2023 Construction Fleet Fuel Consumption								
Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	VMT	Fuel Consumption (1000 Gal.)	Gallons/VMT
Worker (LDA, LDT1, LDT2)								
Inyo	2023	LDA	Aggregate	Aggregate	Diesel	1368687.3	33.77964824	
Inyo	2023	LDT1	Aggregate	Aggregate	Diesel	13553.789	0.571908345	
Inyo	2023	LDT2	Aggregate	Aggregate	Diesel	717874.15	23.2520404	
					Diesel Total	2100115.2	57.60359699	8.89879E-05
Inyo	2023	LDA	Aggregate	Aggregate	Gasoline	392076171	14236.62362	
Inyo	2023	LDT1	Aggregate	Aggregate	Gasoline	43810823	1938.702585	
Inyo	2023	LDT2	Aggregate	Aggregate	Gasoline	209332317	9482.393168	
					Gas Total	645219311	25657.71937	0.039636875
					Total VMT	647319426		
Vendor (HHDT, MHDT)								
Inyo	2023	HHDT	Aggregate	Aggregate	Diesel	28395271	4766.847607	
Inyo	2023	MHDT	Aggregate	Aggregate	Diesel	2718758.7	319.3539426	
					Diesel total	31114029	5086.20155	0.153998135
Inyo	2023	HHDT	Aggregate	Aggregate	Gasoline	6340.2912	1.615954764	
Inyo	2023	MHDT	Aggregate	Aggregate	Gasoline	1907313.3	400.7482902	
					Gas Total	1913653.6	402.3642449	0.012182636
					Total VMT	33027683		
Hauling (HHDT)								
Inyo	2023	HHDT	Aggregate	Aggregate	Diesel	28395271	4766.847607	0.167837227
Inyo	2023	HHDT	Aggregate	Aggregate	Gasoline	6340.2912	1.615954764	5.68966E-08
					Total VMT	28401611		

Source: EMFAC2021 (v1.0.1) Emissions Inventory
 Region Type: County
 Region: Inyo
 Calendar Year: 2024
 Season: Annual
 Vehicle Classification: EMFAC2007 Categories
 Units: miles/year for VMT, kWh/year for Energy Consumption, 1000 gallons/year for Fuel Consumption

2024 Operational Fleet Fuel Consumption										
Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	VMT	Energy Consumption (kWh/day)	Fuel Consumption (1000 Gal.)	Gallons/VMT	kWh/VMT
LDA										
Inyo	2024	LDA	Aggregate	Aggregate	Gasoline	3.91E+08	0	13947.77542	0.033033454	
Inyo	2024	LDA	Aggregate	Aggregate	Diesel	1241210	0	30.348980914	7.07816E-05	
Inyo	2024	LDA	Aggregate	Aggregate	Electricity	24338631	9396720.387	0		
Inyo	2024	LDA	Aggregate	Aggregate	Plug-in Hybrid	12550717	1919547.54	215.9214336		0.0263925
					Total VMT	4.29E+08				
LDT1										
Inyo	2024	LDT1	Aggregate	Aggregate	Gasoline	42120891	0	1838.031343	0.043498467	
Inyo	2024	LDT1	Aggregate	Aggregate	Diesel	11689.58	0	0.493098812	1.16636E-05	
Inyo	2024	LDT1	Aggregate	Aggregate	Electricity	83724.77	32324.67266	0		
Inyo	2024	LDT1	Aggregate	Aggregate	Plug-in Hybrid	60570.65	10112.92089	0.947932701		0.0010038
					Total VMT	42276876				
LDT2										
Inyo	2024	LDT2	Aggregate	Aggregate	Gasoline	2.12E+08	0	9441.470947	0.043849446	
Inyo	2024	LDT2	Aggregate	Aggregate	Diesel	740580	0	23.64989147	0.000109488	
Inyo	2024	LDT2	Aggregate	Aggregate	Electricity	995800	384460.9721	0		
Inyo	2024	LDT2	Aggregate	Aggregate	Plug-in Hybrid	1832453	294099.9019	30.16109024		0.00314144
					Total VMT	2.16E+08				
MDV										
Inyo	2024	MDV	Aggregate	Aggregate	Gasoline	1.37E+08	0	7462.832942	0.05263893	
Inyo	2024	MDV	Aggregate	Aggregate	Diesel	2635882	0	111.945506	0.000787545	
Inyo	2024	MDV	Aggregate	Aggregate	Electricity	1086742	419572.2211	0		
Inyo	2024	MDV	Aggregate	Aggregate	Plug-in Hybrid	1139436	178165.4354	19.52237861		0.00420513
					Total VMT	1.42E+08				
LHDT1										
Inyo	2024	LHDT1	Aggregate	Aggregate	Gasoline	19593773	0	2116.623261	0.056606924	
Inyo	2024	LHDT1	Aggregate	Aggregate	Diesel	17710656	0	1107.903434	0.029629744	
Inyo	2024	LHDT1	Aggregate	Aggregate	Electricity	87167.81	56716.95715	0		0.00151684
					Total VMT	37391596				
LHDT2										
Inyo	2024	LHDT2	Aggregate	Aggregate	Gasoline	2317803	0	273.4911392	0.029535447	
Inyo	2024	LHDT2	Aggregate	Aggregate	Diesel	6920680	0	529.9631367	0.057232925	
Inyo	2024	LHDT2	Aggregate	Aggregate	Electricity	21376.63	13682.16766	0		0.00147759
					Total VMT	9259760				
MHDT										
Inyo	2024	MHDT	Aggregate	Aggregate	Gasoline	1872318	0	388.8084473	0.083734932	
Inyo	2024	MHDT	Aggregate	Aggregate	Diesel	2737331	0	319.3465945	0.068775423	
Inyo	2024	MHDT	Aggregate	Aggregate	Electricity	18981.23	21046.96356	0		0.00453274
Inyo	2024	MHDT	Aggregate	Aggregate	Natural Gas	14694.33	0	1.950480322	0.000420061	
					Total VMT	4643324				
HHDT										
Inyo	2024	HHDT	Aggregate	Aggregate	Gasoline	5842.998	0	1.446307953	5.0084E-05	
Inyo	2024	HHDT	Aggregate	Aggregate	Diesel	28809166	0	4760.424524	0.164848015	
Inyo	2024	HHDT	Aggregate	Aggregate	Electricity	62649	115047.3244	0		0.00398396
Inyo	2024	HHDT	Aggregate	Aggregate	Natural Gas	0	0	0		0
					Total VMT	28877658				
OBUS										
Inyo	2024	OBUS	Aggregate	Aggregate	Gasoline	467145.2	0	98.03404637	0.143328515	
Inyo	2024	OBUS	Aggregate	Aggregate	Diesel	215286.9	0	33.29420117	0.048677053	
Inyo	2024	OBUS	Aggregate	Aggregate	Electricity	1549.277	1710.03979	0		0.00250012
Inyo	2024	OBUS	Aggregate	Aggregate	Natural Gas	0	0	7.904495402		0
					Total VMT	683981.5				
UBUS										
Inyo	2024	UBUS	Aggregate	Aggregate	Gasoline	375071	0	51.13599866	0.032962586	
Inyo	2024	UBUS	Aggregate	Aggregate	Diesel	568592.8	0	48.89420358	0.031517511	
Inyo	2024	UBUS	Aggregate	Aggregate	Electricity	26335.79	46045.43948	0		0.02968118
Inyo	2024	UBUS	Aggregate	Aggregate	Natural Gas	581335	0	91.034318	0.058681293	
					Total VMT	1551335				
MCY										
Inyo	2024	MCY	Aggregate	Aggregate	Gasoline	3791657	0	96.57249367	0.025469732	
SBUS										
Inyo	2024	SBUS	Aggregate	Aggregate	Gasoline	561845.7	0	58.66800732	0.07015117	
Inyo	2024	SBUS	Aggregate	Aggregate	Diesel	273298.3	0	33.74176077	0.040346078	
Inyo	2024	SBUS	Aggregate	Aggregate	Electricity	1164.333	1230.477595	0		0.00147132
Inyo	2024	SBUS	Aggregate	Aggregate	Natural Gas	0	0	0		0
					Total VMT	836308.3				
MH										
Inyo	2024	MH	Aggregate	Aggregate	Gasoline	865378.4	0	190.5373066	0.156373773	
Inyo	2024	MH	Aggregate	Aggregate	Diesel	353095.2	0	37.946829	0.031142924	
					Total VMT	1218474				