

Appendix B

Air Quality Modeling

<u>Proposed GPU Construction</u>		<u>GP Land Uses Construction</u>	
<u>Emissions by Year</u>		<u>Emissions by Year</u>	
<u>(MTCO2e/year)</u>		<u>(MTCO2e/year)</u>	
2021	377	2021	555
2022	553	2022	593
2023	797	2023	797
2024	850	2024	850
2025	848	2025	848
2026	838	2026	838
2027	829	2027	829
2028	818	2028	818
2029	815	2029	815
2030	848	2030	848
2031	843	2031	843
2032	842	2032	842
2033	831	2033	832
2034	829	2034	829
2035	829	2035	829
2036	718	2036	832
2037	829	2037	829
2038	718	2038	718
2039	396	2039	396
2040	141	2040	141
<u>Total</u>	<u>14,549</u>	<u>Total</u>	<u>14,882</u>
<u>Amortized</u>	<u>727.45</u>	<u>Amortized</u>	<u>744.1</u>

CalEEMod Inputs (Construction Run)

Name: Town of Truckee GPU and CAP
Project Number: 18010093.01
Project Location: Truckee
County: Nevada County
Climate Zone: 1
Land Use Setting: Rural
Operational Year: 2040
Utility Company: Truckee Donner Public Utility District
Air Basin: MCAB
Air District: NSAQMD

Project Site Acreage 21,504.0

Land Use	SQFT	Acres
Town Center	6,743,088	154.8
Employment Center	2,696,364	61.9
TOD	5,266,404	120.9
Residential Low	34,952,544	802.4
Residential Medium	7,501,032	172.2
Residential High	1,585,584	36.4
Open Space	30,657,528	703.8
Parks	11,125,224	255.4
Lakes	8,515,980	195.5
Schools	4,730,616	108.6
Streets	8,651,016	198.6
Other Open Space	18,600,120	427.0
	141,025,500	3,237.5

CalEEMod Land Use Inputs -- Construction

Land Use	Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Square Feet
	Commercial	General Office Building	2,696	1000 G Sq. Feet	61.89	2,969,000
	Educational	Elementary School	2,353	1000 G Sq. Feet	54.02	2,353,000
	Educational	High School	2,353	1000 G Sq. Feet	54.02	2,353,000
	Parking	Other Asphalt Surfaces	199	Acre	198.6	8,651,016
	Recreational	City Park	255	Acre	255	11,107,800
	Recreational	Recreational Swimming Pool	8,494	1000 G Sq. Feet	195.0	8,484,000
	Residential	Apartments Low Rise	1,837	Dwelling Unit	172.2	1,837,000
	Residential	Apartments Mid Rise	712	Dwelling Unit	36.4	712,000
	Residential	Condo/Townhouse	1,677	Dwelling Unit	154.8	2,439,000
	Residential	Apartments Mid Rise	2,439	Dwelling Unit	120.9	7,309,800
	Residential	Single Family Housing	4,061	Dwelling Unit	802.0	1,677,000
					2104.83	

Demolition Haul Data*

Component	Amount to be Demolished (Ton)*	Haul Truck Capacity (Ton)	Haul Distance	Total Trip Ends	Duration (days)	Trip Ends/ day
			(miles)			
Building Demo*	20,000	32	15.0	1,250	244	11
Total	20,000			1,250		

*Based on cubic yards provided by the applicant.

Architectural Coating

Interior Paint VOC content:	100
Exterior Paint VOC content:	100

Non-Residential Architectural Coating

Percentage of Buildings' Interior Painted:	100%
Percentage of Buildings' Exterior Painted:	100%

Structure Type	Land Use Square Feet	CalEEMod Application Factor	Total Paintable Surface Area ¹	Paintable Interior Area ²	Paintable Exterior Area ²
Non-Residential	7,675,000	2.0	15,350,000	11,512,500	3,837,500
Residential	13,974,800	2.0	27,949,600	20,962,200	6,987,400

¹ CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively.

² The program assumes the total surface for painting equals 2.7 times the floor square footage for residential and 2 times that for nonresidential square footage defined by the user. Architectural coatings for the parking lot is based on CalEEMod methodology applied to a surface parking lot (i.e., striping), in which 6% of surface area is painted.

CalEEMod Construction Phase Inputs*

5-Day Work Week/8 hours per day

Adjusted Phasing for 20-Year Construction Period (2021-2040)

	Default	Adjusted
Demolition	10000	244
Site Preparation	6000	146
Grading	15500	378
Building Construction	155000	3782
Paving	11000	268
Arch Coating	11000	268
Construction Start Date	4/1/2021	
Construction End Date	9/30/2040	
Total Work Days	5087	

CalEEMod Construction Schedule Inputs

Phase Name	Phase Type	Start Date	End Date	CalEEMod Total Days
Demolition	Demolition	1/3/2022	3/30/2022	244
Site Preparation	Site Preparation	3/31/2022	5/23/2022	146
Grading	Grading	5/24/2022	10/5/2022	378
Building Construction	Building Construction	10/6/2022	6/23/2026	3782
Paving	Paving	6/24/2026	9/24/2026	268
Architectural Coating	Architectural Coating	9/25/2026	12/30/2026	268
				5087

*Based on overall construction schedule of 20 years provided by the Applicant, CalEEMod default phase lengths were normalized to meet this period

Construction

<u>Phase</u>	<u># of Days</u> <u>(CalEEMod</u>	<u>% of year</u>	<u>Adjusted #</u> <u>of Days</u>	<u>Off Model Adjustments</u>
Demolition	10000	5%	244	3032.681535 Adjusted Arch Coating Days
Site Preparation	6000	3%	146	based on 2/3 building days plus paving and arch coating
Grading	15500	8%	378	<u>28.76</u> Unmitigated ROG (2039)
Building Constr	155000	78%	3782	7718.577074 ROG X Arch Tech Days
Paving	11000	6%	268	<u>0.392906815</u> Adjusted ROG (2039)
Arch Coating	11000	6%	268	<u>73.17</u> Unmitigated ROG (2040)
	198500		4843	19637.28388 ROG X Arch Tech Days
Start Date	End Date	Start Date	End Date	<u>6.475221239</u> Adjusted ROG (2040)
1/1/2039	12/31/2039	1/1/2040	9/26/2040	

CalEEMod Outputs (Existing Land Uses)

Notes: CalEEMod land use and VMT inputs were adjusted by 5 (purple), then scaled out in this appendix (green).

Daily Emissions Estimates (raw output)

lb/day											
					<u>Fugitive</u>	<u>Exhaust</u>	<u>PM 10</u>	<u>Fugitive</u>	<u>Exhaust</u>	<u>PM2.5</u>	
	<u>ROG</u>	<u>Nox</u>	<u>CO</u>	<u>SO2</u>	<u>PM</u>	<u>PM</u>	<u>Total</u>	<u>PM2.5</u>	<u>PM2.5</u>	<u>Total</u>	
<u>Area</u>	1304		49	1768	3		222				221
<u>Energy</u>	1		8	387	0		1				1
<u>Mobile</u>	198		363	256	3		207				58
<u>Total</u>	1503		420	2411	6	0	0	430	0	0	280

Daily Emissions Estimates 2040 General Plan

	lb/day										
	<u>ROG</u>	<u>Nox</u>	<u>CO</u>	<u>SO2</u>	<u>Fugitive</u>	<u>Exhaust</u>	<u>PM 10</u>	<u>Fugitive</u>	<u>Exhaust</u>	<u>PM2.5</u>	
					<u>PM</u>	<u>PM</u>	<u>Total</u>	<u>PM2.5</u>	<u>PM2.5</u>	<u>Total</u>	
<u>Area</u>	1882	57	2,466.00		4			305		305	
<u>Energy</u>	2	9		9	0			1		1	
<u>Mobile</u>	130	145	1,100		2			319		86	
<u>Total</u>	2014	211	3575		6	0	0	625	0	0	392

Daily Emissions Estimates (Net Difference)

	lb/day										
	ROG	Nox	CO	SO2	Fugitive	Exhaust	PM 10	Fugitive	Exhaust	PM2.5	
					PM	PM	Total	PM2.5	PM2.5	Total	
Area	578	8	698		1	0	0	83	0	0	84
Energy	1	1	-378		0	0	0	0	0	0	0
Mobile	-68	-218	844		-1	0	0	112	0	0	28
Total	511	-209	1164		0	0	0	195	0	0	112

MTCO_{2e}/capita

Daily Emissions Estimates (scaledby 5)

lb/day											
	<u>ROG</u>	<u>Nox</u>	<u>CO</u>	<u>SO2</u>	<u>Fugitive</u> <u>PM</u>	<u>Exhuast</u> <u>PM</u>	<u>PM 10</u> <u>Total</u>	<u>Fugitive</u> <u>PM2.5</u>	<u>Exhuast</u> <u>PM2.5</u>	<u>PM2.5</u> <u>Total</u>	
Area	6520	245	8840	15	0	0	1110	0	0	1105	
Energy	5	40	1935	0	0	0	5	0	0	5	
Mobile	990	1815	1280	15	0	0	1035	0	0	290	
Total	7515	2100	12055	30	0	0	2150	0	0	1400	

Daily Emissions Estimates 2040 General Plan (scaledby 5)

lb/day											
	<u>ROG</u>	<u>Nox</u>	<u>CO</u>	<u>SO2</u>	<u>Fugitive</u> <u>PM</u>	<u>Exhuast</u> <u>PM</u>	<u>PM 10</u> <u>Total</u>	<u>Fugitive</u> <u>PM2.5</u>	<u>Exhuast</u> <u>PM2.5</u>	<u>PM2.5</u> <u>Total</u>	
Area	9,410	285	12,330	20	-	-	1,525	-	-	1,525	
Energy	10	45	45	-	-	-	5	-	-	5	
Mobile	650	725	5,500	10	-	-	1,595	-	-	430	
Total	10,070	1,055	17,875	30	-	-	3,125	-	-	1,960	

Daily Emissions Estimates 2040 General Plan (scaledby 5)

lb/day											
	<u>ROG</u>	<u>Nox</u>	<u>CO</u>	<u>SO2</u>	<u>Fugitive</u> <u>PM</u>	<u>Exhuast</u> <u>PM</u>	<u>PM 10</u> <u>Total</u>	<u>Fugitive</u> <u>PM2.5</u>	<u>Exhuast</u> <u>PM2.5</u>	<u>PM2.5</u> <u>Total</u>	
Area	2,890	40	3,490	5	-	-	415	-	-	420	
Energy	5	5	(1,890)	-	-	-	-	-	-	-	
Mobile	(340)	(1,090)	4,220	(5)	-	-	560	-	-	140	
Total	2,555	(1,045)	5,820	-	-	-	975	-	-	560	

Town of Truckee GPU 2040 Construction - Nevada County, Summer

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

Town of Truckee GPU 2040 Construction

Nevada County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	2,810.00	Dwelling Unit	912.34	5,058,000.00	8037
Apartments Mid Rise	987.00	Dwelling Unit	25.97	987,000.00	2823
General Office Building	293.00	1000sqft	6.73	293,000.00	0
Office Park	299.00	1000sqft	6.86	299,000.00	0
General Heavy Industry	235.00	1000sqft	5.39	235,000.00	0
Mobile Home Park	67.00	Dwelling Unit	8.44	80,400.00	192
Hotel	393.00	Room	13.10	570,636.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	80
Climate Zone	1			Operational Year	2023
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	463	CH4 Intensity (lb/MWhr)	0.33	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - This model runs for construction emissions only.

Land Use - Projected square footage and dwelling units under the GPU 2040.

Construction Phase - Modeled schedule scaled using CalEEMod defaults.

Vehicle Trips -

Area Coating -

Woodstoves -

Town of Truckee GPU 2040 Construction - Nevada County, Summer

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

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	1,550.00	15.00
tblConstructionPhase	NumDays	15,500.00	150.00
tblConstructionPhase	NumDays	1,100.00	20.00
tblConstructionPhase	NumDays	1,100.00	20.00
tblConstructionPhase	NumDays	600.00	15.00
tblConstructionPhase	PhaseEndDate	5/29/2082	1/20/2023
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	3.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.33
tblProjectCharacteristics	CO2IntensityFactor	0	463
tblProjectCharacteristics	N2OIntensityFactor	0	0.004
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	VendorTripNumber	0.00	642.00
tblTripsAndVMT	WorkerTripNumber	30.00	2,298.00

2.0 Emissions Summary

Town of Truckee GPU 2040 Construction - Nevada County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	11,204.0871	73.8933	137.7092	0.4389	52.9460	2.0051	54.9511	19.0201	1.8668	20.8869			45,012.2103	2.2054	2.6396	45,853.9396
Maximum	11,204.0871	73.8933	137.7092	0.4389	52.9460	2.0051	54.9511	19.0201	1.8668	20.8869			45,012.2103	2.2054	2.6396	45,853.9396

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					
2023	11,203.9251	41.7208	141.1071	0.4389	42.1346	0.4252	42.5598	13.4638	0.4052	13.8690			45,012.2103	2.2054	2.6396	45,853.9396
Maximum	11,203.9251	41.7208	141.1071	0.4389	42.1346	0.4252	42.5598	13.4638	0.4052	13.8690			45,012.2103	2.2054	2.6396	45,853.9396

	ROG	NOx	CO	SO2	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	43.54	-2.47	0.00	20.42	78.79	22.55	29.21	78.29	33.60	0.00	0.00	0.00	0.00	0.00	0.00

Town of Truckee GPU 2040 Construction - Nevada 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	6,145.4350	119.1594	7,618.4875	13.2415		1,025.2258	1,025.2258		1,025.2258	1,025.2258			152,888.4759	99.5820	8.4407	157,893.3653
Energy	1.7313	15.1705	9.0521	0.0944		1.1962	1.1962		1.1962	1.1962			18,886.7194	0.3620	0.3463	18,998.9538
Mobile	250.0496	371.0825	2,077.9121	3.5739	318.9285	4.0683	322.9968	85.1437	3.8385	88.9822			367,320.1023	24.9776	20.7350	374,123.5748
Total	6,397.2159	505.4124	9,705.4516	16.9099	318.9285	1,030.4902	1,349.4187	85.1437	1,030.2604	1,115.4041			539,095.2976	124.9216	29.5220	551,015.8938

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	6,145.4350	119.1594	7,618.4875	13.2415		1,025.2258	1,025.2258		1,025.2258	1,025.2258			152,888.4759	99.5820	8.4407	157,893.3653
Energy	1.7313	15.1705	9.0521	0.0944		1.1962	1.1962		1.1962	1.1962			18,886.7194	0.3620	0.3463	18,998.9538
Mobile	250.0496	371.0825	2,077.9121	3.5739	318.9285	4.0683	322.9968	85.1437	3.8385	88.9822			367,320.1023	24.9776	20.7350	374,123.5748
Total	6,397.2159	505.4124	9,705.4516	16.9099	318.9285	1,030.4902	1,349.4187	85.1437	1,030.2604	1,115.4041			539,095.2976	124.9216	29.5220	551,015.8938

Town of Truckee GPU 2040 Construction - Nevada 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	Site Preparation	Site Preparation	1/2/2023	1/20/2023	5	15	
2	Grading	Grading	1/21/2023	2/10/2023	5	15	
3	Building Construction	Building Construction	2/11/2023	9/8/2023	5	150	
4	Paving	Paving	9/9/2023	10/6/2023	5	20	
5	Architectural Coating	Architectural Coating	10/7/2023	11/3/2023	5	20	

Acres of Grading (Site Preparation Phase): 22.5**Acres of Grading (Grading Phase): 45****Acres of Paving: 0****Residential Indoor: 12,403,935; Residential Outdoor: 4,134,645; Non-Residential Indoor: 2,096,454; Non-Residential Outdoor: 698,818; 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	1	6.00	78	0.48
Building Construction	Cranes	1	7.00	231	0.29
Site Preparation	Cranes	1	7.00	231	0.29
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Site Preparation	Forklifts	3	8.00	89	0.20

Town of Truckee GPU 2040 Construction - Nevada County, Summer

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

Site Preparation	Generator Sets	1	8.00	84	0.74
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
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
Site Preparation	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Welders	1	8.00	46	0.45
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
Grading	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,298.00	642.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	12	2,298.00	642.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	460.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Town of Truckee GPU 2040 Construction - Nevada County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2023****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	3.6268	35.7663	25.5631	0.0526		1.6625	1.6625		1.5442	1.5442			5,036.212 1	1.4103		5,071.468 3
Total	3.6268	35.7663	25.5631	0.0526	19.6570	1.6625	21.3195	10.1025	1.5442	11.6466			5,036.212 1	1.4103		5,071.468 3

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
Vendor	0.9567	30.4791	10.8795	0.1234	3.9365	0.1948	4.1313	1.1337	0.1863	1.3201			13,061.87 19	0.0886	1.9321	13,639.84 71
Worker	11.7144	7.6479	101.2666	0.2630	29.3524	0.1478	29.5003	7.7840	0.1362	7.9202			26,914.12 64	0.7066	0.7075	27,142.62 42
Total	12.6712	38.1270	112.1461	0.3864	33.2890	0.3426	33.6316	8.9177	0.3226	9.2403			39,975.99 83	0.7952	2.6396	40,782.47 13

Town of Truckee GPU 2040 Construction - Nevada County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2023****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	0.6415	3.5939	28.9610	0.0526		0.0826	0.0826		0.0826	0.0826			5,036.212 0	1.4103		5,071.468 3
Total	0.6415	3.5939	28.9610	0.0526	8.8457	0.0826	8.9283	4.5461	0.0826	4.6287			5,036.212 0	1.4103		5,071.468 3

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
Vendor	0.9567	30.4791	10.8795	0.1234	3.9365	0.1948	4.1313	1.1337	0.1863	1.3201			13,061.87 19	0.0886	1.9321	13,639.84 71
Worker	11.7144	7.6479	101.2666	0.2630	29.3524	0.1478	29.5003	7.7840	0.1362	7.9202			26,914.12 64	0.7066	0.7075	27,142.62 42
Total	12.6712	38.1270	112.1461	0.3864	33.2890	0.3426	33.6316	8.9177	0.3226	9.2403			39,975.99 83	0.7952	2.6396	40,782.47 13

Town of Truckee GPU 2040 Construction - Nevada County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Grading - 2023****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	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105			6,011.477 7	1.9442		6,060.083 6
Total	3.3217	34.5156	28.0512	0.0621	9.2036	1.4245	10.6281	3.6538	1.3105	4.9643			6,011.477 7	1.9442		6,060.083 6

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
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
Worker	0.1020	0.0666	0.8814	2.2900e-003	0.2555	1.2900e-003	0.2568	0.0678	1.1900e-003	0.0689			234.2396	6.1500e-003	6.1600e-003	236.2282
Total	0.1020	0.0666	0.8814	2.2900e-003	0.2555	1.2900e-003	0.2568	0.0678	1.1900e-003	0.0689			234.2396	6.1500e-003	6.1600e-003	236.2282

Town of Truckee GPU 2040 Construction - Nevada County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Grading - 2023****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		0.1015	0.1015		0.1015	0.1015			6,011.477 7	1.9442		6,060.083 6
Total	0.7616	3.3000	32.9991	0.0621	4.1416	0.1015	4.2432	1.6442	0.1015	1.7457			6,011.477 7	1.9442		6,060.083 6

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
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
Worker	0.1020	0.0666	0.8814	2.2900e-003	0.2555	1.2900e-003	0.2568	0.0678	1.1900e-003	0.0689			234.2396	6.1500e-003	6.1600e-003	236.2282
Total	0.1020	0.0666	0.8814	2.2900e-003	0.2555	1.2900e-003	0.2568	0.0678	1.1900e-003	0.0689			234.2396	6.1500e-003	6.1600e-003	236.2282

Town of Truckee GPU 2040 Construction - Nevada County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2023****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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584			2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584			2,555.2099	0.6079		2,570.4061

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
Vendor	0.9567	30.4791	10.8795	0.1234	3.9365	0.1948	4.1313	1.1337	0.1863	1.3201			13,061.8719	0.0886	1.9321	13,639.8471
Worker	11.7144	7.6479	101.2666	0.2630	29.3524	0.1478	29.5003	7.7840	0.1362	7.9202			26,914.1264	0.7066	0.7075	27,142.6242
Total	12.6712	38.1270	112.1461	0.3864	33.2890	0.3426	33.6316	8.9177	0.3226	9.2403			39,975.9983	0.7952	2.6396	40,782.4713

Town of Truckee GPU 2040 Construction - Nevada County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2023****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	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408			2,555.2099	0.6079		2,570.4061
Total	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408			2,555.2099	0.6079		2,570.4061

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
Vendor	0.9567	30.4791	10.8795	0.1234	3.9365	0.1948	4.1313	1.1337	0.1863	1.3201			13,061.8719	0.0886	1.9321	13,639.8471
Worker	11.7144	7.6479	101.2666	0.2630	29.3524	0.1478	29.5003	7.7840	0.1362	7.9202			26,914.1264	0.7066	0.7075	27,142.6242
Total	12.6712	38.1270	112.1461	0.3864	33.2890	0.3426	33.6316	8.9177	0.3226	9.2403			39,975.9983	0.7952	2.6396	40,782.4713

Town of Truckee GPU 2040 Construction - Nevada County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Paving - 2023****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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694			2,207.584 1	0.7140		2,225.433 6
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694			2,207.584 1	0.7140		2,225.433 6

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
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
Worker	0.0765	0.0499	0.6610	1.7200e-003	0.1916	9.6000e-004	0.1926	0.0508	8.9000e-004	0.0517			175.6797	4.6100e-003	4.6200e-003	177.1712
Total	0.0765	0.0499	0.6610	1.7200e-003	0.1916	9.6000e-004	0.1926	0.0508	8.9000e-004	0.0517			175.6797	4.6100e-003	4.6200e-003	177.1712

Town of Truckee GPU 2040 Construction - Nevada County, Summer

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

3.5 Paving - 2023

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	0.4146	2.8478	16.6158	0.0228		0.1183	0.1183		0.1112	0.1112			2,207.584 1	0.7140		2,225.433 6
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4146	2.8478	16.6158	0.0228		0.1183	0.1183		0.1112	0.1112			2,207.584 1	0.7140		2,225.433 6

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
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
Worker	0.0765	0.0499	0.6610	1.7200e-003	0.1916	9.6000e-004	0.1926	0.0508	8.9000e-004	0.0517			175.6797	4.6100e-003	4.6200e-003	177.1712
Total	0.0765	0.0499	0.6610	1.7200e-003	0.1916	9.6000e-004	0.1926	0.0508	8.9000e-004	0.0517			175.6797	4.6100e-003	4.6200e-003	177.1712

Town of Truckee GPU 2040 Construction - Nevada County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2023****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	11,201.5505					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708			281.4481	0.0168		281.8690
Total	11,201.7422	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708			281.4481	0.0168		281.8690

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
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
Worker	2.3449	1.5309	20.2710	0.0526	5.8756	0.0296	5.9052	1.5582	0.0273	1.5854			5,387.5101	0.1415	0.1416	5,433.2494
Total	2.3449	1.5309	20.2710	0.0526	5.8756	0.0296	5.9052	1.5582	0.0273	1.5854			5,387.5101	0.1415	0.1416	5,433.2494

Town of Truckee GPU 2040 Construction - Nevada County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2023****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	11,201.5505					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003			281.4481	0.0168		281.8690
Total	11,201.5802	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003			281.4481	0.0168		281.8690

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
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
Worker	2.3449	1.5309	20.2710	0.0526	5.8756	0.0296	5.9052	1.5582	0.0273	1.5854			5,387.5101	0.1415	0.1416	5,433.2494
Total	2.3449	1.5309	20.2710	0.0526	5.8756	0.0296	5.9052	1.5582	0.0273	1.5854			5,387.5101	0.1415	0.1416	5,433.2494

Town of Truckee GPU 2040 Construction - Nevada 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	250.0496	371.0825	2,077.9121	3.5739	318.9285	4.0683	322.9968	85.1437	3.8385	88.9822			367,320.1023	24.9776	20.7350	374,123.5748
Unmitigated	250.0496	371.0825	2,077.9121	3.5739	318.9285	4.0683	322.9968	85.1437	3.8385	88.9822			367,320.1023	24.9776	20.7350	374,123.5748

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	5,369.28	4,846.17	4036.83	18,981,086	18,981,086
General Heavy Industry	923.55	1,508.70	1196.15	4,041,517	4,041,517
Mobile Home Park	335.00	308.87	284.08	1,204,838	1,204,838
Office Park	3,309.93	490.36	227.24	7,142,409	7,142,409
Single Family Housing	26,526.40	26,807.40	24025.50	97,464,918	97,464,918
General Office Building	2,853.82	647.53	205.10	5,964,059	5,964,059
Hotel	3,285.48	3,218.67	2338.35	6,310,059	6,310,059
Total	42,603.46	37,827.70	32,313.25	141,108,887	141,108,887

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	16.80	7.10	7.90	42.30	19.60	38.10	86	11	3

Town of Truckee GPU 2040 Construction - Nevada County, Summer

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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Heavy Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3
Mobile Home Park	16.80	7.10	7.90	42.30	19.60	38.10	86	11	3
Office Park	14.70	6.60	6.60	33.00	48.00	19.00	82	15	3
Single Family Housing	16.80	7.10	7.90	42.30	19.60	38.10	86	11	3
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Hotel	14.70	6.60	6.60	19.40	61.60	19.00	58	38	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.377284	0.065076	0.253129	0.161870	0.053172	0.010152	0.008514	0.016905	0.000947	0.000162	0.043993	0.000622	0.008175
General Heavy Industry	0.377284	0.065076	0.253129	0.161870	0.053172	0.010152	0.008514	0.016905	0.000947	0.000162	0.043993	0.000622	0.008175
Mobile Home Park	0.377284	0.065076	0.253129	0.161870	0.053172	0.010152	0.008514	0.016905	0.000947	0.000162	0.043993	0.000622	0.008175
Office Park	0.377284	0.065076	0.253129	0.161870	0.053172	0.010152	0.008514	0.016905	0.000947	0.000162	0.043993	0.000622	0.008175
Single Family Housing	0.377284	0.065076	0.253129	0.161870	0.053172	0.010152	0.008514	0.016905	0.000947	0.000162	0.043993	0.000622	0.008175
General Office Building	0.377284	0.065076	0.253129	0.161870	0.053172	0.010152	0.008514	0.016905	0.000947	0.000162	0.043993	0.000622	0.008175
Hotel	0.377284	0.065076	0.253129	0.161870	0.053172	0.010152	0.008514	0.016905	0.000947	0.000162	0.043993	0.000622	0.008175

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Town of Truckee GPU 2040 Construction - Nevada 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					
NaturalGas Mitigated	1.7313	15.1705	9.0521	0.0944		1.1962	1.1962		1.1962	1.1962			18,886.71 94	0.3620	0.3463	18,998.95 38
NaturalGas Unmitigated	1.7313	15.1705	9.0521	0.0944		1.1962	1.1962		1.1962	1.1962			18,886.71 94	0.3620	0.3463	18,998.95 38

Town of Truckee GPU 2040 Construction - Nevada 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 Mid Rise	10225.3	0.1103	0.9423	0.4010	6.0100e-003		0.0762	0.0762		0.0762	0.0762			1,202.9788	0.0231	0.0221	1,210.1275
General Heavy Industry	2240.55	0.0242	0.2197	0.1845	1.3200e-003		0.0167	0.0167		0.0167	0.0167			263.5939	5.0500e-003	4.8300e-003	265.1603
General Office Building	15525	0.1674	1.5221	1.2785	9.1300e-003		0.1157	0.1157		0.1157	0.1157			1,826.4690	0.0350	0.0335	1,837.3228
Hotel	32143.2	0.3466	3.1513	2.6471	0.0189		0.2395	0.2395		0.2395	0.2395			3,781.5556	0.0725	0.0693	3,804.0275
Mobile Home Park	742.198	8.0000e-003	0.0684	0.0291	4.4000e-004		5.5300e-003	5.5300e-003		5.5300e-003	5.5300e-003			87.3175	1.6700e-003	1.6000e-003	87.8364
Office Park	13991.6	0.1509	1.3717	1.1523	8.2300e-003		0.1043	0.1043		0.1043	0.1043			1,646.0661	0.0316	0.0302	1,655.8478
Single Family Housing	85669.3	0.9239	7.8950	3.3596	0.0504		0.6383	0.6383		0.6383	0.6383			10,078.7386	0.1932	0.1848	10,138.6315
Total		1.7313	15.1705	9.0521	0.0944		1.1962	1.1962		1.1962	1.1962			18,886.7194	0.3620	0.3463	18,998.9538

Town of Truckee GPU 2040 Construction - Nevada County, Summer

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas 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 Mid Rise	10.2253	0.1103	0.9423	0.4010	6.0100e-003		0.0762	0.0762		0.0762	0.0762			1,202.9788	0.0231	0.0221	1,210.1275
General Heavy Industry	2.24055	0.0242	0.2197	0.1845	1.3200e-003		0.0167	0.0167		0.0167	0.0167			263.5939	5.0500e-003	4.8300e-003	265.1603
General Office Building	15.525	0.1674	1.5221	1.2785	9.1300e-003		0.1157	0.1157		0.1157	0.1157			1,826.4690	0.0350	0.0335	1,837.3228
Hotel	32.1432	0.3466	3.1513	2.6471	0.0189		0.2395	0.2395		0.2395	0.2395			3,781.5556	0.0725	0.0693	3,804.0275
Mobile Home Park	0.742198	8.0000e-003	0.0684	0.0291	4.4000e-004		5.5300e-003	5.5300e-003		5.5300e-003	5.5300e-003			87.3175	1.6700e-003	1.6000e-003	87.8364
Office Park	13.9916	0.1509	1.3717	1.1523	8.2300e-003		0.1043	0.1043		0.1043	0.1043			1,646.0661	0.0316	0.0302	1,655.8478
Single Family Housing	85.6693	0.9239	7.8950	3.3596	0.0504		0.6383	0.6383		0.6383	0.6383			10,078.7386	0.1932	0.1848	10,138.6315
Total		1.7313	15.1705	9.0521	0.0944		1.1962	1.1962		1.1962	1.1962			18,886.7194	0.3620	0.3463	18,998.9538

6.0 Area Detail

6.1 Mitigation Measures Area

Town of Truckee GPU 2040 Construction - Nevada 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	6,145.4350	119.1594	7,618.4875	13.2415		1,025.2258	1,025.2258		1,025.2258	1,025.2258			152,888.4759	99.5820	8.4407	157,893.3653
Unmitigated	6,145.4350	119.1594	7,618.4875	13.2415		1,025.2258	1,025.2258		1,025.2258	1,025.2258			152,888.4759	99.5820	8.4407	157,893.3653

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	61.3784					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	160.9930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	5,913.4461	115.4828	7,299.5070	13.2247		1,023.4605	1,023.4605		1,023.4605	1,023.4605			152,314.2028	99.0293	8.4407	157,305.2753
Landscaping	9.6176	3.6767	318.9805	0.0168		1.7653	1.7653		1.7653	1.7653			574.2731	0.5527		588.0900
Total	6,145.4350	119.1594	7,618.4875	13.2415		1,025.2257	1,025.2257		1,025.2257	1,025.2257			152,888.4759	99.5820	8.4407	157,893.3653

Town of Truckee GPU 2040 Construction - Nevada 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	61.3784					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	160.9930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	5,913.4461	115.4828	7,299.5070	13.2247		1,023.4605	1,023.4605		1,023.4605	1,023.4605			152,314.2028	99.0293	8.4407	157,305.2753
Landscaping	9.6176	3.6767	318.9805	0.0168		1.7653	1.7653		1.7653	1.7653			574.2731	0.5527		588.0900
Total	6,145.4350	119.1594	7,618.4875	13.2415		1,025.2257	1,025.2257		1,025.2257	1,025.2257			152,888.4759	99.5820	8.4407	157,893.3653

7.0 Water Detail

7.1 Mitigation Measures Water

Town of Truckee GPU 2040 Construction - Nevada County, Summer

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Town of Truckee GPU 2040 Construction - Nevada County, Winter

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

Town of Truckee GPU 2040 Construction

Nevada County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	2,810.00	Dwelling Unit	912.34	5,058,000.00	8037
Apartments Mid Rise	987.00	Dwelling Unit	25.97	987,000.00	2823
General Office Building	293.00	1000sqft	6.73	293,000.00	0
Office Park	299.00	1000sqft	6.86	299,000.00	0
General Heavy Industry	235.00	1000sqft	5.39	235,000.00	0
Mobile Home Park	67.00	Dwelling Unit	8.44	80,400.00	192
Hotel	393.00	Room	13.10	570,636.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	80
Climate Zone	1			Operational Year	2023
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	463	CH4 Intensity (lb/MWhr)	0.33	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - This model runs for construction emissions only.

Land Use - Projected square footage and dwelling units under the GPU 2040.

Construction Phase - Modeled schedule scaled using CalEEMod defaults.

Vehicle Trips -

Area Coating -

Woodstoves -

Town of Truckee GPU 2040 Construction - Nevada County, Winter

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

Construction Off-road Equipment Mitigation - Use of mitigation for Tier 4 engines and BMPs

[illegible]

Town of Truckee GPU 2040 Construction - Nevada County, Winter

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

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	1,550.00	15.00
tblConstructionPhase	NumDays	15,500.00	150.00
tblConstructionPhase	NumDays	1,100.00	20.00
tblConstructionPhase	NumDays	1,100.00	20.00
tblConstructionPhase	NumDays	600.00	15.00
tblConstructionPhase	PhaseEndDate	5/29/2082	1/20/2023
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	3.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.33
tblProjectCharacteristics	CO2IntensityFactor	0	463
tblProjectCharacteristics	N2OIntensityFactor	0	0.004
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	VendorTripNumber	0.00	642.00
tblTripsAndVMT	WorkerTripNumber	30.00	2,298.00

2.0 Emissions Summary

Town of Truckee GPU 2040 Construction - Nevada County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	11,204.14 30	78.3539	131.5394	0.4199	52.9460	2.0061	54.9521	19.0201	1.8677	20.8879			43,066.43 66	2.2846	2.7873	43,954.16 42
Maximum	11,204.14 30	78.3539	131.5394	0.4199	52.9460	2.0061	54.9521	19.0201	1.8677	20.8879			43,066.43 66	2.2846	2.7873	43,954.16 42

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					
2023	11,203.98 10	46.1815	134.9373	0.4199	42.1346	0.4262	42.5608	13.4638	0.4062	13.8699			43,066.43 66	2.2846	2.7873	43,954.16 41
Maximum	11,203.98 10	46.1815	134.9373	0.4199	42.1346	0.4262	42.5608	13.4638	0.4062	13.8699			43,066.43 66	2.2846	2.7873	43,954.16 41

	ROG	NOx	CO	SO2	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	41.06	-2.58	0.00	20.42	78.75	22.55	29.21	78.25	33.60	0.00	0.00	0.00	0.00	0.00	0.00

Town of Truckee GPU 2040 Construction - Nevada 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	6,145.4350	119.1594	7,618.4875	13.2415		1,025.2258	1,025.2258		1,025.2258	1,025.2258			152,888.4759	99.5820	8.4407	157,893.3653
Energy	1.7313	15.1705	9.0521	0.0944		1.1962	1.1962		1.1962	1.1962			18,886.7194	0.3620	0.3463	18,998.9538
Mobile	227.1592	428.9694	2,272.1341	3.4007	318.9285	4.0704	322.9988	85.1437	3.8405	88.9842			349,590.4019	28.9668	22.9815	357,163.0597
Total	6,374.3255	563.2993	9,899.6736	16.7366	318.9285	1,030.4923	1,349.4207	85.1437	1,030.2624	1,115.4061			521,365.5972	128.9108	31.7685	534,055.3787

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	6,145.4350	119.1594	7,618.4875	13.2415		1,025.2258	1,025.2258		1,025.2258	1,025.2258			152,888.4759	99.5820	8.4407	157,893.3653
Energy	1.7313	15.1705	9.0521	0.0944		1.1962	1.1962		1.1962	1.1962			18,886.7194	0.3620	0.3463	18,998.9538
Mobile	227.1592	428.9694	2,272.1341	3.4007	318.9285	4.0704	322.9988	85.1437	3.8405	88.9842			349,590.4019	28.9668	22.9815	357,163.0597
Total	6,374.3255	563.2993	9,899.6736	16.7366	318.9285	1,030.4923	1,349.4207	85.1437	1,030.2624	1,115.4061			521,365.5972	128.9108	31.7685	534,055.3787

Town of Truckee GPU 2040 Construction - Nevada County, Winter

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

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

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/2/2023	1/20/2023	5	15	
2	Grading	Grading	1/21/2023	2/10/2023	5	15	
3	Building Construction	Building Construction	2/11/2023	9/8/2023	5	150	
4	Paving	Paving	9/9/2023	10/6/2023	5	20	
5	Architectural Coating	Architectural Coating	10/7/2023	11/3/2023	5	20	

Acres of Grading (Site Preparation Phase): 22.5**Acres of Grading (Grading Phase): 45****Acres of Paving: 0****Residential Indoor: 12,403,935; Residential Outdoor: 4,134,645; Non-Residential Indoor: 2,096,454; Non-Residential Outdoor: 698,818; 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	1	6.00	78	0.48
Building Construction	Cranes	1	7.00	231	0.29
Site Preparation	Cranes	1	7.00	231	0.29
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Site Preparation	Forklifts	3	8.00	89	0.20

Town of Truckee GPU 2040 Construction - Nevada County, Winter

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

Site Preparation	Generator Sets	1	8.00	84	0.74
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
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
Site Preparation	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Welders	1	8.00	46	0.45
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
Grading	8	20.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	2,298.00	642.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	12	2,298.00	642.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	460.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Town of Truckee GPU 2040 Construction - Nevada County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2023****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	3.6268	35.7663	25.5631	0.0526		1.6625	1.6625		1.5442	1.5442			5,036.212 1	1.4103		5,071.468 3
Total	3.6268	35.7663	25.5631	0.0526	19.6570	1.6625	21.3195	10.1025	1.5442	11.6466			5,036.212 1	1.4103		5,071.468 3

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
Vendor	0.9087	32.5873	11.3456	0.1237	3.9365	0.1958	4.1323	1.1337	0.1873	1.3210			13,093.44 48	0.0861	1.9399	13,673.67 94
Worker	11.9936	10.0003	94.6307	0.2436	29.3524	0.1478	29.5003	7.7840	0.1362	7.9202			24,936.77 98	0.7882	0.8474	25,209.01 64
Total	12.9023	42.5876	105.9763	0.3674	33.2890	0.3436	33.6326	8.9177	0.3235	9.2412			38,030.22 46	0.8743	2.7873	38,882.69 58

Town of Truckee GPU 2040 Construction - Nevada County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Site Preparation - 2023****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	0.6415	3.5939	28.9610	0.0526		0.0826	0.0826		0.0826	0.0826			5,036.2120	1.4103		5,071.4683
Total	0.6415	3.5939	28.9610	0.0526	8.8457	0.0826	8.9283	4.5461	0.0826	4.6287			5,036.2120	1.4103		5,071.4683

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
Vendor	0.9087	32.5873	11.3456	0.1237	3.9365	0.1958	4.1323	1.1337	0.1873	1.3210			13,093.4448	0.0861	1.9399	13,673.6794
Worker	11.9936	10.0003	94.6307	0.2436	29.3524	0.1478	29.5003	7.7840	0.1362	7.9202			24,936.7798	0.7882	0.8474	25,209.0164
Total	12.9023	42.5876	105.9763	0.3674	33.2890	0.3436	33.6326	8.9177	0.3235	9.2412			38,030.2246	0.8743	2.7873	38,882.6958

Town of Truckee GPU 2040 Construction - Nevada County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Grading - 2023****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	3.3217	34.5156	28.0512	0.0621		1.4245	1.4245		1.3105	1.3105			6,011.477 7	1.9442		6,060.083 6
Total	3.3217	34.5156	28.0512	0.0621	9.2036	1.4245	10.6281	3.6538	1.3105	4.9643			6,011.477 7	1.9442		6,060.083 6

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
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
Worker	0.1044	0.0870	0.8236	2.1200e-003	0.2555	1.2900e-003	0.2568	0.0678	1.1900e-003	0.0689			217.0303	6.8600e-003	7.3800e-003	219.3996
Total	0.1044	0.0870	0.8236	2.1200e-003	0.2555	1.2900e-003	0.2568	0.0678	1.1900e-003	0.0689			217.0303	6.8600e-003	7.3800e-003	219.3996

Town of Truckee GPU 2040 Construction - Nevada County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.3 Grading - 2023****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		0.1015	0.1015		0.1015	0.1015			6,011.477 7	1.9442		6,060.083 6
Total	0.7616	3.3000	32.9991	0.0621	4.1416	0.1015	4.2432	1.6442	0.1015	1.7457			6,011.477 7	1.9442		6,060.083 6

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
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
Worker	0.1044	0.0870	0.8236	2.1200e-003	0.2555	1.2900e-003	0.2568	0.0678	1.1900e-003	0.0689			217.0303	6.8600e-003	7.3800e-003	219.3996
Total	0.1044	0.0870	0.8236	2.1200e-003	0.2555	1.2900e-003	0.2568	0.0678	1.1900e-003	0.0689			217.0303	6.8600e-003	7.3800e-003	219.3996

Town of Truckee GPU 2040 Construction - Nevada County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2023****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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584			2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584			2,555.2099	0.6079		2,570.4061

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
Vendor	0.9087	32.5873	11.3456	0.1237	3.9365	0.1958	4.1323	1.1337	0.1873	1.3210			13,093.4448	0.0861	1.9399	13,673.6794
Worker	11.9936	10.0003	94.6307	0.2436	29.3524	0.1478	29.5003	7.7840	0.1362	7.9202			24,936.7798	0.7882	0.8474	25,209.0164
Total	12.9023	42.5876	105.9763	0.3674	33.2890	0.3436	33.6326	8.9177	0.3235	9.2412			38,030.2246	0.8743	2.7873	38,882.6958

Town of Truckee GPU 2040 Construction - Nevada County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.4 Building Construction - 2023****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	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408			2,555.2099	0.6079		2,570.4061
Total	0.3278	2.2347	17.4603	0.0269		0.0408	0.0408		0.0408	0.0408			2,555.2099	0.6079		2,570.4061

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
Vendor	0.9087	32.5873	11.3456	0.1237	3.9365	0.1958	4.1323	1.1337	0.1873	1.3210			13,093.4448	0.0861	1.9399	13,673.6794
Worker	11.9936	10.0003	94.6307	0.2436	29.3524	0.1478	29.5003	7.7840	0.1362	7.9202			24,936.7798	0.7882	0.8474	25,209.0164
Total	12.9023	42.5876	105.9763	0.3674	33.2890	0.3436	33.6326	8.9177	0.3235	9.2412			38,030.2246	0.8743	2.7873	38,882.6958

Town of Truckee GPU 2040 Construction - Nevada County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Paving - 2023****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	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694			2,207.584 1	0.7140		2,225.433 6
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694			2,207.584 1	0.7140		2,225.433 6

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
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
Worker	0.0783	0.0653	0.6177	1.5900e-003	0.1916	9.6000e-004	0.1926	0.0508	8.9000e-004	0.0517			162.7727	5.1500e-003	5.5300e-003	164.5497
Total	0.0783	0.0653	0.6177	1.5900e-003	0.1916	9.6000e-004	0.1926	0.0508	8.9000e-004	0.0517			162.7727	5.1500e-003	5.5300e-003	164.5497

Town of Truckee GPU 2040 Construction - Nevada County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.5 Paving - 2023****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	0.4146	2.8478	16.6158	0.0228		0.1183	0.1183		0.1112	0.1112			2,207.584 1	0.7140		2,225.433 6
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4146	2.8478	16.6158	0.0228		0.1183	0.1183		0.1112	0.1112			2,207.584 1	0.7140		2,225.433 6

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
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
Worker	0.0783	0.0653	0.6177	1.5900e-003	0.1916	9.6000e-004	0.1926	0.0508	8.9000e-004	0.0517			162.7727	5.1500e-003	5.5300e-003	164.5497
Total	0.0783	0.0653	0.6177	1.5900e-003	0.1916	9.6000e-004	0.1926	0.0508	8.9000e-004	0.0517			162.7727	5.1500e-003	5.5300e-003	164.5497

Town of Truckee GPU 2040 Construction - Nevada County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2023****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	11,201.5505					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708			281.4481	0.0168		281.8690
Total	11,201.7422	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708			281.4481	0.0168		281.8690

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
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
Worker	2.4008	2.0018	18.9426	0.0488	5.8756	0.0296	5.9052	1.5582	0.0273	1.5854			4,991.6966	0.1578	0.1696	5,046.1913
Total	2.4008	2.0018	18.9426	0.0488	5.8756	0.0296	5.9052	1.5582	0.0273	1.5854			4,991.6966	0.1578	0.1696	5,046.1913

Town of Truckee GPU 2040 Construction - Nevada County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.6 Architectural Coating - 2023****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	11,201.5505					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0297	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003			281.4481	0.0168		281.8690
Total	11,201.5802	0.1288	1.8324	2.9700e-003		3.9600e-003	3.9600e-003		3.9600e-003	3.9600e-003			281.4481	0.0168		281.8690

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
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
Worker	2.4008	2.0018	18.9426	0.0488	5.8756	0.0296	5.9052	1.5582	0.0273	1.5854			4,991.6966	0.1578	0.1696	5,046.1913
Total	2.4008	2.0018	18.9426	0.0488	5.8756	0.0296	5.9052	1.5582	0.0273	1.5854			4,991.6966	0.1578	0.1696	5,046.1913

Town of Truckee GPU 2040 Construction - Nevada 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	227.1592	428.9694	2,272.1341	3.4007	318.9285	4.0704	322.9988	85.1437	3.8405	88.9842			349,590.4019	28.9668	22.9815	357,163.0597
Unmitigated	227.1592	428.9694	2,272.1341	3.4007	318.9285	4.0704	322.9988	85.1437	3.8405	88.9842			349,590.4019	28.9668	22.9815	357,163.0597

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	5,369.28	4,846.17	4036.83	18,981,086	18,981,086
General Heavy Industry	923.55	1,508.70	1196.15	4,041,517	4,041,517
Mobile Home Park	335.00	308.87	284.08	1,204,838	1,204,838
Office Park	3,309.93	490.36	227.24	7,142,409	7,142,409
Single Family Housing	26,526.40	26,807.40	24025.50	97,464,918	97,464,918
General Office Building	2,853.82	647.53	205.10	5,964,059	5,964,059
Hotel	3,285.48	3,218.67	2338.35	6,310,059	6,310,059
Total	42,603.46	37,827.70	32,313.25	141,108,887	141,108,887

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	16.80	7.10	7.90	42.30	19.60	38.10	86	11	3

Town of Truckee GPU 2040 Construction - Nevada County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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
General Heavy Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3
Mobile Home Park	16.80	7.10	7.90	42.30	19.60	38.10	86	11	3
Office Park	14.70	6.60	6.60	33.00	48.00	19.00	82	15	3
Single Family Housing	16.80	7.10	7.90	42.30	19.60	38.10	86	11	3
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Hotel	14.70	6.60	6.60	19.40	61.60	19.00	58	38	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.377284	0.065076	0.253129	0.161870	0.053172	0.010152	0.008514	0.016905	0.000947	0.000162	0.043993	0.000622	0.008175
General Heavy Industry	0.377284	0.065076	0.253129	0.161870	0.053172	0.010152	0.008514	0.016905	0.000947	0.000162	0.043993	0.000622	0.008175
Mobile Home Park	0.377284	0.065076	0.253129	0.161870	0.053172	0.010152	0.008514	0.016905	0.000947	0.000162	0.043993	0.000622	0.008175
Office Park	0.377284	0.065076	0.253129	0.161870	0.053172	0.010152	0.008514	0.016905	0.000947	0.000162	0.043993	0.000622	0.008175
Single Family Housing	0.377284	0.065076	0.253129	0.161870	0.053172	0.010152	0.008514	0.016905	0.000947	0.000162	0.043993	0.000622	0.008175
General Office Building	0.377284	0.065076	0.253129	0.161870	0.053172	0.010152	0.008514	0.016905	0.000947	0.000162	0.043993	0.000622	0.008175
Hotel	0.377284	0.065076	0.253129	0.161870	0.053172	0.010152	0.008514	0.016905	0.000947	0.000162	0.043993	0.000622	0.008175

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Town of Truckee GPU 2040 Construction - Nevada 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					
NaturalGas Mitigated	1.7313	15.1705	9.0521	0.0944		1.1962	1.1962		1.1962	1.1962			18,886.7194	0.3620	0.3463	18,998.9538
NaturalGas Unmitigated	1.7313	15.1705	9.0521	0.0944		1.1962	1.1962		1.1962	1.1962			18,886.7194	0.3620	0.3463	18,998.9538

Town of Truckee GPU 2040 Construction - Nevada 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 Mid Rise	10225.3	0.1103	0.9423	0.4010	6.0100e-003		0.0762	0.0762		0.0762	0.0762			1,202.9788	0.0231	0.0221	1,210.1275
General Heavy Industry	2240.55	0.0242	0.2197	0.1845	1.3200e-003		0.0167	0.0167		0.0167	0.0167			263.5939	5.0500e-003	4.8300e-003	265.1603
General Office Building	15525	0.1674	1.5221	1.2785	9.1300e-003		0.1157	0.1157		0.1157	0.1157			1,826.4690	0.0350	0.0335	1,837.3228
Hotel	32143.2	0.3466	3.1513	2.6471	0.0189		0.2395	0.2395		0.2395	0.2395			3,781.5556	0.0725	0.0693	3,804.0275
Mobile Home Park	742.198	8.0000e-003	0.0684	0.0291	4.4000e-004		5.5300e-003	5.5300e-003		5.5300e-003	5.5300e-003			87.3175	1.6700e-003	1.6000e-003	87.8364
Office Park	13991.6	0.1509	1.3717	1.1523	8.2300e-003		0.1043	0.1043		0.1043	0.1043			1,646.0661	0.0316	0.0302	1,655.8478
Single Family Housing	85669.3	0.9239	7.8950	3.3596	0.0504		0.6383	0.6383		0.6383	0.6383			10,078.7386	0.1932	0.1848	10,138.6315
Total		1.7313	15.1705	9.0521	0.0944		1.1962	1.1962		1.1962	1.1962			18,886.7194	0.3620	0.3463	18,998.9538

Town of Truckee GPU 2040 Construction - Nevada County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.2 Energy by Land Use - NaturalGas****Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	10.2253	0.1103	0.9423	0.4010	6.0100e-003		0.0762	0.0762		0.0762	0.0762			1,202.9788	0.0231	0.0221	1,210.1275
General Heavy Industry	2.24055	0.0242	0.2197	0.1845	1.3200e-003		0.0167	0.0167		0.0167	0.0167			263.5939	5.0500e-003	4.8300e-003	265.1603
General Office Building	15.525	0.1674	1.5221	1.2785	9.1300e-003		0.1157	0.1157		0.1157	0.1157			1,826.4690	0.0350	0.0335	1,837.3228
Hotel	32.1432	0.3466	3.1513	2.6471	0.0189		0.2395	0.2395		0.2395	0.2395			3,781.5556	0.0725	0.0693	3,804.0275
Mobile Home Park	0.742198	8.0000e-003	0.0684	0.0291	4.4000e-004		5.5300e-003	5.5300e-003		5.5300e-003	5.5300e-003			87.3175	1.6700e-003	1.6000e-003	87.8364
Office Park	13.9916	0.1509	1.3717	1.1523	8.2300e-003		0.1043	0.1043		0.1043	0.1043			1,646.0661	0.0316	0.0302	1,655.8478
Single Family Housing	85.6693	0.9239	7.8950	3.3596	0.0504		0.6383	0.6383		0.6383	0.6383			10,078.7386	0.1932	0.1848	10,138.6315
Total		1.7313	15.1705	9.0521	0.0944		1.1962	1.1962		1.1962	1.1962			18,886.7194	0.3620	0.3463	18,998.9538

6.0 Area Detail**6.1 Mitigation Measures Area**

Town of Truckee GPU 2040 Construction - Nevada 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	6,145.4350	119.1594	7,618.4875	13.2415		1,025.2258	1,025.2258		1,025.2258	1,025.2258			152,888.4759	99.5820	8.4407	157,893.3653
Unmitigated	6,145.4350	119.1594	7,618.4875	13.2415		1,025.2258	1,025.2258		1,025.2258	1,025.2258			152,888.4759	99.5820	8.4407	157,893.3653

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	61.3784					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	160.9930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	5,913.4461	115.4828	7,299.5070	13.2247		1,023.4605	1,023.4605		1,023.4605	1,023.4605			152,314.2028	99.0293	8.4407	157,305.2753
Landscaping	9.6176	3.6767	318.9805	0.0168		1.7653	1.7653		1.7653	1.7653			574.2731	0.5527		588.0900
Total	6,145.4350	119.1594	7,618.4875	13.2415		1,025.2257	1,025.2257		1,025.2257	1,025.2257			152,888.4759	99.5820	8.4407	157,893.3653

Town of Truckee GPU 2040 Construction - Nevada 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	61.3784					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	160.9930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	5,913.4461	115.4828	7,299.5070	13.2247		1,023.4605	1,023.4605		1,023.4605	1,023.4605			152,314.2028	99.0293	8.4407	157,305.2753
Landscaping	9.6176	3.6767	318.9805	0.0168		1.7653	1.7653		1.7653	1.7653			574.2731	0.5527		588.0900
Total	6,145.4350	119.1594	7,618.4875	13.2415		1,025.2257	1,025.2257		1,025.2257	1,025.2257			152,888.4759	99.5820	8.4407	157,893.3653

7.0 Water Detail**7.1 Mitigation Measures Water**

Town of Truckee GPU 2040 Construction - Nevada County, Winter

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

8.1 Mitigation Measures Waste**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Town of Truckee GPU 2040 General Plan - Nevada County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Town of Truckee GPU 2040 General Plan****Nevada County, Summer****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	2,810.00	Dwelling Unit	912.34	5,058,000.00	8037
Apartments Mid Rise	987.00	Dwelling Unit	25.97	987,000.00	2823
General Office Building	293.00	1000sqft	6.73	293,000.00	0
Office Park	299.00	1000sqft	6.86	299,000.00	0
General Heavy Industry	235.00	1000sqft	5.39	235,000.00	0
Mobile Home Park	67.00	Dwelling Unit	8.44	80,400.00	192
Hotel	393.00	Room	13.10	570,636.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	80
Climate Zone	1			Operational Year	2040
Utility Company	User Defined				
CO2 Intensity (lb/MW hr)	463	CH4 Intensity (lb/MW hr)	0.33	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - This model runs for operational emissions only. User defined EFs adjusted to exemplify TDPUD. This modeled has been scaled by 5. Emissions estimates adjusted off-model.

Land Use - Projected square footage and dwelling units under the GPU 2040.

Construction Phase - This model runs for operation only.1

Vehicle Trips - VMT estimated adjusted to reflect LSE Traffic Study

Area Coating - Emissions factors adjusted to reflect NSAQMD rules.

Town of Truckee GPU 2040 General Plan - Nevada County, Summer

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

Woodstoves - Numbers adjusted to more accurately account for existing woodburning.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Parking	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	100
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblConstructionPhase	NumDays	15,500.00	2.00
tblConstructionPhase	PhaseEndDate	5/29/2082	1/3/2023
tblFireplaces	FireplaceWoodMass	3,078.40	1,100.00
tblFireplaces	FireplaceWoodMass	3,078.40	1,100.00
tblFireplaces	FireplaceWoodMass	3,078.40	1,100.00
tblFireplaces	NumberGas	1,545.50	1,200.00
tblFireplaces	NumberNoFireplace	98.70	125.00
tblFireplaces	NumberNoFireplace	281.00	321.00
tblFireplaces	NumberWood	345.45	300.00
tblFireplaces	NumberWood	983.50	750.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.33
tblProjectCharacteristics	CO2IntensityFactor	0	463
tblProjectCharacteristics	N2OIntensityFactor	0	0.004
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblWoodstoves	WoodstoveWoodMass	3,019.20	1,100.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	1,100.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	1,100.00

2.0 Emissions Summary

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

Unmitigated Construction

Mitigated Construction

[illegible]

Town of Truckee GPU 2040 General Plan - Nevada 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	1,882.284 1	57.0900	2,466.526 5	4.1220		305.1083	305.1083		305.1083	305.1083			70,392.65 41	37.0350	2.8509	72,168.10 62
Energy	1.7313	15.1705	9.0521	0.0944		1.1962	1.1962		1.1962	1.1962			18,886.71 94	0.3620	0.3463	18,998.95 38
Mobile	130.0054	144.9897	1,100.023 6	2.4118	317.5206	1.5135	319.0341	84.5480	1.4240	85.9720			267,038.7 829	13.0512	11.7919	270,879.0 613
Total	2,014.020 8	217.2501	3,575.602 1	6.6281	317.5206	307.8179	625.3385	84.5480	307.7284	392.2765			356,318.1 564	50.4482	14.9891	362,046.1 212

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	1,882.284 1	57.0900	2,466.526 5	4.1220		305.1083	305.1083		305.1083	305.1083			70,392.65 41	37.0350	2.8509	72,168.10 62
Energy	1.7313	15.1705	9.0521	0.0944		1.1962	1.1962		1.1962	1.1962			18,886.71 94	0.3620	0.3463	18,998.95 38
Mobile	130.0054	144.9897	1,100.023 6	2.4118	317.5206	1.5135	319.0341	84.5480	1.4240	85.9720			267,038.7 829	13.0512	11.7919	270,879.0 613
Total	2,014.020 8	217.2501	3,575.602 1	6.6281	317.5206	307.8179	625.3385	84.5480	307.7284	392.2765			356,318.1 564	50.4482	14.9891	362,046.1 212

Town of Truckee GPU 2040 General Plan - Nevada 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	Building Construction	Building Construction	1/2/2023	1/3/2023	5	2	

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
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

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
Building Construction	9	2,298.00	642.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

Town of Truckee GPU 2040 General Plan - Nevada County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.1 Mitigation Measures Construction****3.2 Building Construction - 2023****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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584			2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584			2,555.2099	0.6079		2,570.4061

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
Vendor	0.9567	30.4791	10.8795	0.1234	3.9365	0.1948	4.1313	1.1337	0.1863	1.3201			13,061.8719	0.0886	1.9321	13,639.8471
Worker	11.7144	7.6479	101.2666	0.2630	29.3524	0.1478	29.5003	7.7840	0.1362	7.9202			26,914.1264	0.7066	0.7075	27,142.6242
Total	12.6712	38.1270	112.1461	0.3864	33.2890	0.3426	33.6316	8.9177	0.3226	9.2403			39,975.9983	0.7952	2.6396	40,782.4713

Town of Truckee GPU 2040 General Plan - Nevada County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Building Construction - 2023****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584			2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584			2,555.2099	0.6079		2,570.4061

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
Vendor	0.9567	30.4791	10.8795	0.1234	3.9365	0.1948	4.1313	1.1337	0.1863	1.3201			13,061.8719	0.0886	1.9321	13,639.8471
Worker	11.7144	7.6479	101.2666	0.2630	29.3524	0.1478	29.5003	7.7840	0.1362	7.9202			26,914.1264	0.7066	0.7075	27,142.6242
Total	12.6712	38.1270	112.1461	0.3864	33.2890	0.3426	33.6316	8.9177	0.3226	9.2403			39,975.9983	0.7952	2.6396	40,782.4713

4.0 Operational Detail - Mobile

Town of Truckee GPU 2040 General Plan - Nevada County, Summer

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

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	130.0054	144.9897	1,100.0236	2.4118	317.5206	1.5135	319.0341	84.5480	1.4240	85.9720			267,038.7829	13.0512	11.7919	270,879.0613
Unmitigated	130.0054	144.9897	1,100.0236	2.4118	317.5206	1.5135	319.0341	84.5480	1.4240	85.9720			267,038.7829	13.0512	11.7919	270,879.0613

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	5,369.28	4,846.17	4036.83	18,981,086	18,981,086
General Heavy Industry	923.55	1,508.70	1196.15	4,041,517	4,041,517
Mobile Home Park	335.00	308.87	284.08	1,204,838	1,204,838
Office Park	3,309.93	490.36	227.24	7,142,409	7,142,409
Single Family Housing	26,526.40	26,807.40	24025.50	97,464,918	97,464,918
General Office Building	2,853.82	647.53	205.10	5,964,059	5,964,059
Hotel	3,285.48	3,218.67	2338.35	6,310,059	6,310,059
Total	42,603.46	37,827.70	32,313.25	141,108,887	141,108,887

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	16.80	7.10	7.90	42.30	19.60	38.10	86	11	3
General Heavy Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3

Town of Truckee GPU 2040 General Plan - Nevada County, Summer

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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Mobile Home Park	16.80	7.10	7.90	42.30	19.60	38.10	86	11	3
Office Park	14.70	6.60	6.60	33.00	48.00	19.00	82	15	3
Single Family Housing	16.80	7.10	7.90	42.30	19.60	38.10	86	11	3
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Hotel	14.70	6.60	6.60	19.40	61.60	19.00	58	38	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.477349	0.059554	0.223787	0.144087	0.025454	0.005526	0.008752	0.018184	0.000856	0.000153	0.032806	0.000656	0.002837
General Heavy Industry	0.477349	0.059554	0.223787	0.144087	0.025454	0.005526	0.008752	0.018184	0.000856	0.000153	0.032806	0.000656	0.002837
Mobile Home Park	0.477349	0.059554	0.223787	0.144087	0.025454	0.005526	0.008752	0.018184	0.000856	0.000153	0.032806	0.000656	0.002837
Office Park	0.477349	0.059554	0.223787	0.144087	0.025454	0.005526	0.008752	0.018184	0.000856	0.000153	0.032806	0.000656	0.002837
Single Family Housing	0.477349	0.059554	0.223787	0.144087	0.025454	0.005526	0.008752	0.018184	0.000856	0.000153	0.032806	0.000656	0.002837
General Office Building	0.477349	0.059554	0.223787	0.144087	0.025454	0.005526	0.008752	0.018184	0.000856	0.000153	0.032806	0.000656	0.002837
Hotel	0.477349	0.059554	0.223787	0.144087	0.025454	0.005526	0.008752	0.018184	0.000856	0.000153	0.032806	0.000656	0.002837

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Town of Truckee GPU 2040 General Plan - Nevada 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					
NaturalGas Mitigated	1.7313	15.1705	9.0521	0.0944		1.1962	1.1962		1.1962	1.1962			18,886.71 94	0.3620	0.3463	18,998.95 38
NaturalGas Unmitigated	1.7313	15.1705	9.0521	0.0944		1.1962	1.1962		1.1962	1.1962			18,886.71 94	0.3620	0.3463	18,998.95 38

Town of Truckee GPU 2040 General Plan - Nevada 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 Mid Rise	10225.3	0.1103	0.9423	0.4010	6.0100e-003		0.0762	0.0762		0.0762	0.0762			1,202.9788	0.0231	0.0221	1,210.1275
General Heavy Industry	2240.55	0.0242	0.2197	0.1845	1.3200e-003		0.0167	0.0167		0.0167	0.0167			263.5939	5.0500e-003	4.8300e-003	265.1603
General Office Building	15525	0.1674	1.5221	1.2785	9.1300e-003		0.1157	0.1157		0.1157	0.1157			1,826.4690	0.0350	0.0335	1,837.3228
Hotel	32143.2	0.3466	3.1513	2.6471	0.0189		0.2395	0.2395		0.2395	0.2395			3,781.5556	0.0725	0.0693	3,804.0275
Mobile Home Park	742.198	8.0000e-003	0.0684	0.0291	4.4000e-004		5.5300e-003	5.5300e-003		5.5300e-003	5.5300e-003			87.3175	1.6700e-003	1.6000e-003	87.8364
Office Park	13991.6	0.1509	1.3717	1.1523	8.2300e-003		0.1043	0.1043		0.1043	0.1043			1,646.0661	0.0316	0.0302	1,655.8478
Single Family Housing	85669.3	0.9239	7.8950	3.3596	0.0504		0.6383	0.6383		0.6383	0.6383			10,078.7386	0.1932	0.1848	10,138.6315
Total		1.7313	15.1705	9.0521	0.0944		1.1962	1.1962		1.1962	1.1962			18,886.7194	0.3620	0.3463	18,998.9538

Town of Truckee GPU 2040 General Plan - Nevada County, Summer

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas 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 Mid Rise	10.2253	0.1103	0.9423	0.4010	6.0100e-003		0.0762	0.0762		0.0762	0.0762			1,202.9788	0.0231	0.0221	1,210.1275
General Heavy Industry	2.24055	0.0242	0.2197	0.1845	1.3200e-003		0.0167	0.0167		0.0167	0.0167			263.5939	5.0500e-003	4.8300e-003	265.1603
General Office Building	15.525	0.1674	1.5221	1.2785	9.1300e-003		0.1157	0.1157		0.1157	0.1157			1,826.4690	0.0350	0.0335	1,837.3228
Hotel	32.1432	0.3466	3.1513	2.6471	0.0189		0.2395	0.2395		0.2395	0.2395			3,781.5556	0.0725	0.0693	3,804.0275
Mobile Home Park	0.742198	8.0000e-003	0.0684	0.0291	4.4000e-004		5.5300e-003	5.5300e-003		5.5300e-003	5.5300e-003			87.3175	1.6700e-003	1.6000e-003	87.8364
Office Park	13.9916	0.1509	1.3717	1.1523	8.2300e-003		0.1043	0.1043		0.1043	0.1043			1,646.0661	0.0316	0.0302	1,655.8478
Single Family Housing	85.6693	0.9239	7.8950	3.3596	0.0504		0.6383	0.6383		0.6383	0.6383			10,078.7386	0.1932	0.1848	10,138.6315
Total		1.7313	15.1705	9.0521	0.0944		1.1962	1.1962		1.1962	1.1962			18,886.7194	0.3620	0.3463	18,998.9538

6.0 Area Detail

6.1 Mitigation Measures Area

Town of Truckee GPU 2040 General Plan - Nevada 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	1,882.284 1	57.0900	2,466.526 5	4.1220		305.1083	305.1083		305.1083	305.1083			70,392.65 41	37.0350	2.8509	72,168.10 62
Unmitigated	1,882.284 1	57.0900	2,466.526 5	4.1220		305.1083	305.1083		305.1083	305.1083			70,392.65 41	37.0350	2.8509	72,168.10 62

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	24.5513					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	160.9930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1,687.235 8	53.4254	2,149.018 2	4.1051		303.3400	303.3400		303.3400	303.3400			69,818.38 11	36.4879	2.8509	71,580.15 69
Landscaping	9.5040	3.6646	317.5083	0.0168		1.7683	1.7683		1.7683	1.7683			574.2731	0.5471		587.9493
Total	1,882.284 1	57.0900	2,466.526 5	4.1220		305.1083	305.1083		305.1083	305.1083			70,392.65 41	37.0350	2.8509	72,168.10 62

Town of Truckee GPU 2040 General Plan - Nevada 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	24.5513					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	160.9930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1,687.2358	53.4254	2,149.0182	4.1051		303.3400	303.3400		303.3400	303.3400			69,818.3811	36.4879	2.8509	71,580.1569
Landscaping	9.5040	3.6646	317.5083	0.0168		1.7683	1.7683		1.7683	1.7683			574.2731	0.5471		587.9493
Total	1,882.2841	57.0900	2,466.5265	4.1220		305.1083	305.1083		305.1083	305.1083			70,392.6541	37.0350	2.8509	72,168.1062

7.0 Water Detail**7.1 Mitigation Measures Water**

Town of Truckee GPU 2040 General Plan - Nevada County, Summer

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Town of Truckee GPU 2040 General Plan - Nevada County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**Town of Truckee GPU 2040 General Plan****Nevada County, Winter****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	2,810.00	Dwelling Unit	912.34	5,058,000.00	8037
Apartments Mid Rise	987.00	Dwelling Unit	25.97	987,000.00	2823
General Office Building	293.00	1000sqft	6.73	293,000.00	0
Office Park	299.00	1000sqft	6.86	299,000.00	0
General Heavy Industry	235.00	1000sqft	5.39	235,000.00	0
Mobile Home Park	67.00	Dwelling Unit	8.44	80,400.00	192
Hotel	393.00	Room	13.10	570,636.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	80
Climate Zone	1			Operational Year	2040
Utility Company	User Defined				
CO2 Intensity (lb/MW hr)	463	CH4 Intensity (lb/MW hr)	0.33	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - This model runs for operational emissions only. User defined EFs adjusted to exemplify TDPUD. This modeled has been scaled by 5. Emissions estimates adjusted off-model.

Land Use - Projected square footage and dwelling units under the GPU 2040.

Construction Phase - This model runs for operation only.1

Vehicle Trips - VMT estimated adjusted to reflect LSE Traffic Study

Area Coating - Emissions factors adjusted to reflect NSAQMD rules.

Town of Truckee GPU 2040 General Plan - Nevada County, Winter

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

Woodstoves - Numbers adjusted to more accurately account for existing woodburning.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Nonresidential_Exterior	250	100
tblAreaCoating	Area_EF_Nonresidential_Interior	250	100
tblAreaCoating	Area_EF_Parking	250	100
tblAreaCoating	Area_EF_Residential_Exterior	250	100
tblAreaCoating	Area_EF_Residential_Interior	250	100
tblConstructionPhase	NumDays	15,500.00	2.00
tblConstructionPhase	PhaseEndDate	5/29/2082	1/3/2023
tblFireplaces	FireplaceWoodMass	3,078.40	1,100.00
tblFireplaces	FireplaceWoodMass	3,078.40	1,100.00
tblFireplaces	FireplaceWoodMass	3,078.40	1,100.00
tblFireplaces	NumberGas	1,545.50	1,200.00
tblFireplaces	NumberNoFireplace	98.70	125.00
tblFireplaces	NumberNoFireplace	281.00	321.00
tblFireplaces	NumberWood	345.45	300.00
tblFireplaces	NumberWood	983.50	750.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.33
tblProjectCharacteristics	CO2IntensityFactor	0	463
tblProjectCharacteristics	N2OIntensityFactor	0	0.004
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblWoodstoves	WoodstoveWoodMass	3,019.20	1,100.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	1,100.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	1,100.00

2.0 Emissions Summary

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

Unmitigated Construction

Mitigated Construction

[illegible]

Town of Truckee GPU 2040 General Plan - Nevada 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	1,882.284 1	57.0900	2,466.526 5	4.1220		305.1083	305.1083		305.1083	305.1083			70,392.65 41	37.0350	2.8509	72,168.10 62
Energy	1.7313	15.1705	9.0521	0.0944		1.1962	1.1962		1.1962	1.1962			18,886.71 94	0.3620	0.3463	18,998.95 38
Mobile	112.8006	167.9556	1,224.001 2	2.2873	317.5206	1.5149	319.0355	84.5480	1.4254	85.9734			252,965.6 454	14.7844	12.9833	257,204.2 785
Total	1,996.816 0	240.2161	3,699.579 7	6.5037	317.5206	307.8193	625.3399	84.5480	307.7298	392.2778			342,245.0 189	52.1814	16.1805	348,371.3 385

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	1,882.284 1	57.0900	2,466.526 5	4.1220		305.1083	305.1083		305.1083	305.1083			70,392.65 41	37.0350	2.8509	72,168.10 62
Energy	1.7313	15.1705	9.0521	0.0944		1.1962	1.1962		1.1962	1.1962			18,886.71 94	0.3620	0.3463	18,998.95 38
Mobile	112.8006	167.9556	1,224.001 2	2.2873	317.5206	1.5149	319.0355	84.5480	1.4254	85.9734			252,965.6 454	14.7844	12.9833	257,204.2 785
Total	1,996.816 0	240.2161	3,699.579 7	6.5037	317.5206	307.8193	625.3399	84.5480	307.7298	392.2778			342,245.0 189	52.1814	16.1805	348,371.3 385

Town of Truckee GPU 2040 General Plan - Nevada County, Winter

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

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

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	1/2/2023	1/3/2023	5	2	

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
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

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
Building Construction	9	2,298.00	642.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

Town of Truckee GPU 2040 General Plan - Nevada County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.1 Mitigation Measures Construction****3.2 Building Construction - 2023****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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584			2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584			2,555.2099	0.6079		2,570.4061

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
Vendor	0.9087	32.5873	11.3456	0.1237	3.9365	0.1958	4.1323	1.1337	0.1873	1.3210			13,093.4448	0.0861	1.9399	13,673.6794
Worker	11.9936	10.0003	94.6307	0.2436	29.3524	0.1478	29.5003	7.7840	0.1362	7.9202			24,936.7798	0.7882	0.8474	25,209.0164
Total	12.9023	42.5876	105.9763	0.3674	33.2890	0.3436	33.6326	8.9177	0.3235	9.2412			38,030.2246	0.8743	2.7873	38,882.6958

Town of Truckee GPU 2040 General Plan - Nevada County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.2 Building Construction - 2023****Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584			2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584			2,555.2099	0.6079		2,570.4061

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
Vendor	0.9087	32.5873	11.3456	0.1237	3.9365	0.1958	4.1323	1.1337	0.1873	1.3210			13,093.4448	0.0861	1.9399	13,673.6794
Worker	11.9936	10.0003	94.6307	0.2436	29.3524	0.1478	29.5003	7.7840	0.1362	7.9202			24,936.7798	0.7882	0.8474	25,209.0164
Total	12.9023	42.5876	105.9763	0.3674	33.2890	0.3436	33.6326	8.9177	0.3235	9.2412			38,030.2246	0.8743	2.7873	38,882.6958

4.0 Operational Detail - Mobile

Town of Truckee GPU 2040 General Plan - Nevada County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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	112.8006	167.9556	1,224.001 2	2.2873	317.5206	1.5149	319.0355	84.5480	1.4254	85.9734			252,965.6 454	14.7844	12.9833	257,204.2 785
Unmitigated	112.8006	167.9556	1,224.001 2	2.2873	317.5206	1.5149	319.0355	84.5480	1.4254	85.9734			252,965.6 454	14.7844	12.9833	257,204.2 785

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	5,369.28	4,846.17	4036.83	18,981,086	18,981,086
General Heavy Industry	923.55	1,508.70	1196.15	4,041,517	4,041,517
Mobile Home Park	335.00	308.87	284.08	1,204,838	1,204,838
Office Park	3,309.93	490.36	227.24	7,142,409	7,142,409
Single Family Housing	26,526.40	26,807.40	24025.50	97,464,918	97,464,918
General Office Building	2,853.82	647.53	205.10	5,964,059	5,964,059
Hotel	3,285.48	3,218.67	2338.35	6,310,059	6,310,059
Total	42,603.46	37,827.70	32,313.25	141,108,887	141,108,887

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	16.80	7.10	7.90	42.30	19.60	38.10	86	11	3
General Heavy Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3

Town of Truckee GPU 2040 General Plan - Nevada County, Winter

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

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Mobile Home Park	16.80	7.10	7.90	42.30	19.60	38.10	86	11	3
Office Park	14.70	6.60	6.60	33.00	48.00	19.00	82	15	3
Single Family Housing	16.80	7.10	7.90	42.30	19.60	38.10	86	11	3
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Hotel	14.70	6.60	6.60	19.40	61.60	19.00	58	38	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.477349	0.059554	0.223787	0.144087	0.025454	0.005526	0.008752	0.018184	0.000856	0.000153	0.032806	0.000656	0.002837
General Heavy Industry	0.477349	0.059554	0.223787	0.144087	0.025454	0.005526	0.008752	0.018184	0.000856	0.000153	0.032806	0.000656	0.002837
Mobile Home Park	0.477349	0.059554	0.223787	0.144087	0.025454	0.005526	0.008752	0.018184	0.000856	0.000153	0.032806	0.000656	0.002837
Office Park	0.477349	0.059554	0.223787	0.144087	0.025454	0.005526	0.008752	0.018184	0.000856	0.000153	0.032806	0.000656	0.002837
Single Family Housing	0.477349	0.059554	0.223787	0.144087	0.025454	0.005526	0.008752	0.018184	0.000856	0.000153	0.032806	0.000656	0.002837
General Office Building	0.477349	0.059554	0.223787	0.144087	0.025454	0.005526	0.008752	0.018184	0.000856	0.000153	0.032806	0.000656	0.002837
Hotel	0.477349	0.059554	0.223787	0.144087	0.025454	0.005526	0.008752	0.018184	0.000856	0.000153	0.032806	0.000656	0.002837

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Town of Truckee GPU 2040 General Plan - Nevada 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					
NaturalGas Mitigated	1.7313	15.1705	9.0521	0.0944		1.1962	1.1962		1.1962	1.1962			18,886.71 94	0.3620	0.3463	18,998.95 38
NaturalGas Unmitigated	1.7313	15.1705	9.0521	0.0944		1.1962	1.1962		1.1962	1.1962			18,886.71 94	0.3620	0.3463	18,998.95 38

Town of Truckee GPU 2040 General Plan - Nevada 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 Mid Rise	10225.3	0.1103	0.9423	0.4010	6.0100e-003		0.0762	0.0762		0.0762	0.0762			1,202.9788	0.0231	0.0221	1,210.1275
General Heavy Industry	2240.55	0.0242	0.2197	0.1845	1.3200e-003		0.0167	0.0167		0.0167	0.0167			263.5939	5.0500e-003	4.8300e-003	265.1603
General Office Building	15525	0.1674	1.5221	1.2785	9.1300e-003		0.1157	0.1157		0.1157	0.1157			1,826.4690	0.0350	0.0335	1,837.3228
Hotel	32143.2	0.3466	3.1513	2.6471	0.0189		0.2395	0.2395		0.2395	0.2395			3,781.5556	0.0725	0.0693	3,804.0275
Mobile Home Park	742.198	8.0000e-003	0.0684	0.0291	4.4000e-004		5.5300e-003	5.5300e-003		5.5300e-003	5.5300e-003			87.3175	1.6700e-003	1.6000e-003	87.8364
Office Park	13991.6	0.1509	1.3717	1.1523	8.2300e-003		0.1043	0.1043		0.1043	0.1043			1,646.0661	0.0316	0.0302	1,655.8478
Single Family Housing	85669.3	0.9239	7.8950	3.3596	0.0504		0.6383	0.6383		0.6383	0.6383			10,078.7386	0.1932	0.1848	10,138.6315
Total		1.7313	15.1705	9.0521	0.0944		1.1962	1.1962		1.1962	1.1962			18,886.7194	0.3620	0.3463	18,998.9538

Town of Truckee GPU 2040 General Plan - Nevada County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**5.2 Energy by Land Use - NaturalGas****Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	10.2253	0.1103	0.9423	0.4010	6.0100e-003		0.0762	0.0762		0.0762	0.0762			1,202.9788	0.0231	0.0221	1,210.1275
General Heavy Industry	2.24055	0.0242	0.2197	0.1845	1.3200e-003		0.0167	0.0167		0.0167	0.0167			263.5939	5.0500e-003	4.8300e-003	265.1603
General Office Building	15.525	0.1674	1.5221	1.2785	9.1300e-003		0.1157	0.1157		0.1157	0.1157			1,826.4690	0.0350	0.0335	1,837.3228
Hotel	32.1432	0.3466	3.1513	2.6471	0.0189		0.2395	0.2395		0.2395	0.2395			3,781.5556	0.0725	0.0693	3,804.0275
Mobile Home Park	0.742198	8.0000e-003	0.0684	0.0291	4.4000e-004		5.5300e-003	5.5300e-003		5.5300e-003	5.5300e-003			87.3175	1.6700e-003	1.6000e-003	87.8364
Office Park	13.9916	0.1509	1.3717	1.1523	8.2300e-003		0.1043	0.1043		0.1043	0.1043			1,646.0661	0.0316	0.0302	1,655.8478
Single Family Housing	85.6693	0.9239	7.8950	3.3596	0.0504		0.6383	0.6383		0.6383	0.6383			10,078.7386	0.1932	0.1848	10,138.6315
Total		1.7313	15.1705	9.0521	0.0944		1.1962	1.1962		1.1962	1.1962			18,886.7194	0.3620	0.3463	18,998.9538

6.0 Area Detail**6.1 Mitigation Measures Area**

Town of Truckee GPU 2040 General Plan - Nevada 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	1,882.284 1	57.0900	2,466.526 5	4.1220		305.1083	305.1083		305.1083	305.1083			70,392.65 41	37.0350	2.8509	72,168.10 62
Unmitigated	1,882.284 1	57.0900	2,466.526 5	4.1220		305.1083	305.1083		305.1083	305.1083			70,392.65 41	37.0350	2.8509	72,168.10 62

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	24.5513					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	160.9930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1,687.235 8	53.4254	2,149.018 2	4.1051		303.3400	303.3400		303.3400	303.3400			69,818.38 11	36.4879	2.8509	71,580.15 69
Landscaping	9.5040	3.6646	317.5083	0.0168		1.7683	1.7683		1.7683	1.7683			574.2731	0.5471		587.9493
Total	1,882.284 1	57.0900	2,466.526 5	4.1220		305.1083	305.1083		305.1083	305.1083			70,392.65 41	37.0350	2.8509	72,168.10 62

Town of Truckee GPU 2040 General Plan - Nevada 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	24.5513					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	160.9930					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1,687.2358	53.4254	2,149.0182	4.1051		303.3400	303.3400		303.3400	303.3400			69,818.3811	36.4879	2.8509	71,580.1569
Landscaping	9.5040	3.6646	317.5083	0.0168		1.7683	1.7683		1.7683	1.7683			574.2731	0.5471		587.9493
Total	1,882.2841	57.0900	2,466.5265	4.1220		305.1083	305.1083		305.1083	305.1083			70,392.6541	37.0350	2.8509	72,168.1062

7.0 Water Detail**7.1 Mitigation Measures Water**

Town of Truckee GPU 2040 General Plan - Nevada County, Winter

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Town of Truckee GPU Existing Conditions - Nevada County, Winter

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

Town of Truckee GPU Existing Conditions

Nevada County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	2,225.00	Dwelling Unit	722.40	4,005,000.00	6364
Apartments Mid Rise	381.00	Dwelling Unit	10.03	381,000.00	1090
General Office Building	215.00	1000sqft	4.94	215,000.00	0
Office Park	13.00	1000sqft	0.30	13,000.00	0
General Heavy Industry	49.00	1000sqft	1.12	49,000.00	0
Mobile Home Park	67.00	Dwelling Unit	8.44	80,400.00	192

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	80
Climate Zone	1			Operational Year	2018
Utility Company	User Defined				
CO2 Intensity (lb/MW hr)	463	CH4 Intensity (lb/MW hr)	0.33	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - This model runs for operational emissions only. User defined EFs adjusted to exemplify TDPUD. This modeled has been scaled by 5. Emissions estimates adjusted off-model.

Land Use - Projected square footage and dwelling units under existing conditions.

Construction Phase - This model runs for construction only.

Vehicle Trips - VMT estimated adjusted to reflect LSE Traffic Study

Area Coating - Emissions factors adjusted to reflect NSAQMD rules.

Woodstoves - Numbers adjusted to more accurately account for existing woodburning.

Town of Truckee GPU Existing Conditions - Nevada County, Winter

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

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	12,400.00	1.00
tblConstructionPhase	PhaseEndDate	7/11/2070	1/2/2023
tblFireplaces	FireplaceWoodMass	3,078.40	1,500.00
tblFireplaces	FireplaceWoodMass	3,078.40	1,500.00
tblFireplaces	FireplaceWoodMass	3,078.40	1,500.00
tblFireplaces	NumberGas	1,223.75	1,500.00
tblFireplaces	NumberNoFireplace	38.10	51.00
tblFireplaces	NumberNoFireplace	222.50	550.00
tblFireplaces	NumberWood	133.35	111.00
tblFireplaces	NumberWood	778.75	400.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.33
tblProjectCharacteristics	CO2IntensityFactor	0	463
tblProjectCharacteristics	N2OIntensityFactor	0	0.004
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblWoodstoves	WoodstoveWoodMass	3,019.20	1,500.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	1,500.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	1,500.00

2.0 Emissions Summary

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

Unmitigated Construction

Mitigated Construction

[illegible]

Town of Truckee GPU Existing Conditions - Nevada 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	1,304.2075	49.1468	1,768.9512	3.1298		221.5847	221.5847		221.5847	221.5847			61,216.9206	34.8410	2.1445	62,727.0043
Energy	0.9166	7.9059	3.8708	0.0500		0.6333	0.6333		0.6333	0.6333			9,998.9571	0.1917	0.1833	10,058.3759
Mobile	185.8106	420.3750	1,974.7400	2.4435	202.0081	4.7900	206.7981	54.0024	4.5422	58.5446			248,959.7527	23.9489	18.7791	255,154.6506
Total	1,490.9347	477.4276	3,747.5620	5.6232	202.0081	227.0079	429.0160	54.0024	226.7601	280.7626			320,175.6304	58.9815	21.1069	327,940.0307

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	1,304.2075	49.1468	1,768.9512	3.1298		221.5847	221.5847		221.5847	221.5847			61,216.9206	34.8410	2.1445	62,727.0043
Energy	0.9166	7.9059	3.8708	0.0500		0.6333	0.6333		0.6333	0.6333			9,998.9571	0.1917	0.1833	10,058.3759
Mobile	185.8106	420.3750	1,974.7400	2.4435	202.0081	4.7900	206.7981	54.0024	4.5422	58.5446			248,959.7527	23.9489	18.7791	255,154.6506
Total	1,490.9347	477.4276	3,747.5620	5.6232	202.0081	227.0079	429.0160	54.0024	226.7601	280.7626			320,175.6304	58.9815	21.1069	327,940.0307

Town of Truckee GPU Existing Conditions - Nevada County, Winter

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

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

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	1/2/2023	1/2/2023	5	1	

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
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

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
Building Construction	9	1,217.00	331.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

Town of Truckee GPU Existing Conditions - Nevada County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.1 Mitigation Measures Construction****3.2 Building Construction - 2023****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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584			2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584			2,555.2099	0.6079		2,570.4061

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
Vendor	0.4685	16.8013	5.8495	0.0638	2.0296	0.1010	2.1305	0.5845	0.0966	0.6811			6,750.6702	0.0444	1.0002	7,049.8254
Worker	6.3517	5.2960	50.1156	0.1290	15.5448	0.0783	15.6231	4.1223	0.0722	4.1945			13,206.2928	0.4175	0.4488	13,350.4669
Total	6.8202	22.0973	55.9651	0.1928	17.5744	0.1792	17.7536	4.7068	0.1687	4.8756			19,956.9630	0.4618	1.4489	20,400.2923

Town of Truckee GPU Existing Conditions - Nevada County, Winter

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

3.2 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584			2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584			2,555.2099	0.6079		2,570.4061

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
Vendor	0.4685	16.8013	5.8495	0.0638	2.0296	0.1010	2.1305	0.5845	0.0966	0.6811			6,750.6702	0.0444	1.0002	7,049.8254
Worker	6.3517	5.2960	50.1156	0.1290	15.5448	0.0783	15.6231	4.1223	0.0722	4.1945			13,206.2928	0.4175	0.4488	13,350.4669
Total	6.8202	22.0973	55.9651	0.1928	17.5744	0.1792	17.7536	4.7068	0.1687	4.8756			19,956.9630	0.4618	1.4489	20,400.2923

4.0 Operational Detail - Mobile

Town of Truckee GPU Existing Conditions - Nevada County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**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	185.8106	420.3750	1,974.7400	2.4435	202.0081	4.7900	206.7981	54.0024	4.5422	58.5446			248,959.7527	23.9489	18.7791	255,154.6506
Unmitigated	185.8106	420.3750	1,974.7400	2.4435	202.0081	4.7900	206.7981	54.0024	4.5422	58.5446			248,959.7527	23.9489	18.7791	255,154.6506

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,072.64	1,870.71	1558.29	7,327,045	7,327,045
General Heavy Industry	192.57	314.58	249.41	842,699	842,699
Mobile Home Park	335.00	308.87	284.08	1,204,838	1,204,838
Office Park	143.91	21.32	9.88	310,540	310,540
Single Family Housing	21,004.00	21,226.50	19023.75	77,174,179	77,174,179
General Office Building	2,094.10	475.15	150.50	4,376,357	4,376,357
Total	25,842.22	24,217.13	21,275.91	91,235,659	91,235,659

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	16.80	7.10	7.90	42.30	19.60	38.10	86	11	3
General Heavy Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3
Mobile Home Park	16.80	7.10	7.90	42.30	19.60	38.10	86	11	3

Town of Truckee GPU Existing Conditions - Nevada County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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
Office Park	14.70	6.60	6.60	33.00	48.00	19.00	82	15	3
Single Family Housing	16.80	7.10	7.90	42.30	19.60	38.10	86	11	3
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.342296	0.066026	0.258739	0.171564	0.066748	0.012003	0.008637	0.014681	0.001097	0.000162	0.046464	0.000578	0.011006
General Heavy Industry	0.342296	0.066026	0.258739	0.171564	0.066748	0.012003	0.008637	0.014681	0.001097	0.000162	0.046464	0.000578	0.011006
Mobile Home Park	0.342296	0.066026	0.258739	0.171564	0.066748	0.012003	0.008637	0.014681	0.001097	0.000162	0.046464	0.000578	0.011006
Office Park	0.342296	0.066026	0.258739	0.171564	0.066748	0.012003	0.008637	0.014681	0.001097	0.000162	0.046464	0.000578	0.011006
Single Family Housing	0.342296	0.066026	0.258739	0.171564	0.066748	0.012003	0.008637	0.014681	0.001097	0.000162	0.046464	0.000578	0.011006
General Office Building	0.342296	0.066026	0.258739	0.171564	0.066748	0.012003	0.008637	0.014681	0.001097	0.000162	0.046464	0.000578	0.011006

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Town of Truckee GPU Existing Conditions - Nevada 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					
NaturalGas Mitigated	0.9166	7.9059	3.8708	0.0500		0.6333	0.6333		0.6333	0.6333			9,998.9571	0.1917	0.1833	10,058.3759
NaturalGas Unmitigated	0.9166	7.9059	3.8708	0.0500		0.6333	0.6333		0.6333	0.6333			9,998.9571	0.1917	0.1833	10,058.3759

Town of Truckee GPU Existing Conditions - Nevada 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 Mid Rise	3947.16	0.0426	0.3638	0.1548	2.3200e-003		0.0294	0.0294		0.0294	0.0294			464.3718	8.9000e-003	8.5100e-003	467.1313
General Heavy Industry	467.178	5.0400e-003	0.0458	0.0385	2.7000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003			54.9621	1.0500e-003	1.0100e-003	55.2887
General Office Building	11392.1	0.1229	1.1169	0.9382	6.7000e-003		0.0849	0.0849		0.0849	0.0849			1,340.2417	0.0257	0.0246	1,348.2061
Mobile Home Park	742.198	8.0000e-003	0.0684	0.0291	4.4000e-004		5.5300e-003	5.5300e-003		5.5300e-003	5.5300e-003			87.3175	1.6700e-003	1.6000e-003	87.8364
Office Park	608.329	6.5600e-003	0.0596	0.0501	3.6000e-004		4.5300e-003	4.5300e-003		4.5300e-003	4.5300e-003			71.5681	1.3700e-003	1.3100e-003	71.9934
Single Family Housing	67834.2	0.7316	6.2514	2.6602	0.0399		0.5054	0.5054		0.5054	0.5054			7,980.4959	0.1530	0.1463	8,027.9200
Total		0.9166	7.9059	3.8708	0.0500		0.6333	0.6333		0.6333	0.6333			9,998.9571	0.1916	0.1833	10,058.3759

Town of Truckee GPU Existing Conditions - Nevada County, Winter

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	3.94716	0.0426	0.3638	0.1548	2.3200e-003		0.0294	0.0294		0.0294	0.0294			464.3718	8.9000e-003	8.5100e-003	467.1313
General Heavy Industry	0.467178	5.0400e-003	0.0458	0.0385	2.7000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003			54.9621	1.0500e-003	1.0100e-003	55.2887
General Office Building	11.3921	0.1229	1.1169	0.9382	6.7000e-003		0.0849	0.0849		0.0849	0.0849			1,340.2417	0.0257	0.0246	1,348.2061
Mobile Home Park	0.742198	8.0000e-003	0.0684	0.0291	4.4000e-004		5.5300e-003	5.5300e-003		5.5300e-003	5.5300e-003			87.3175	1.6700e-003	1.6000e-003	87.8364
Office Park	0.608329	6.5600e-003	0.0596	0.0501	3.6000e-004		4.5300e-003	4.5300e-003		4.5300e-003	4.5300e-003			71.5681	1.3700e-003	1.3100e-003	71.9934
Single Family Housing	67.8342	0.7316	6.2514	2.6602	0.0399		0.5054	0.5054		0.5054	0.5054			7,980.4959	0.1530	0.1463	8,027.9200
Total		0.9166	7.9059	3.8708	0.0500		0.6333	0.6333		0.6333	0.6333			9,998.9571	0.1916	0.1833	10,058.3759

6.0 Area Detail

6.1 Mitigation Measures Area

Town of Truckee GPU Existing Conditions - Nevada 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	1,304.2075	49.1468	1,768.9512	3.1298		221.5847	221.5847		221.5847	221.5847			61,216.9206	34.8410	2.1445	62,727.0043
Unmitigated	1,304.2075	49.1468	1,768.9512	3.1298		221.5847	221.5847		221.5847	221.5847			61,216.9206	34.8410	2.1445	62,727.0043

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	40.0428					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	101.5088					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1,155.8071	46.5688	1,546.8371	3.1181		220.3724	220.3724		220.3724	220.3724			60,819.7797	34.4473	2.1445	62,320.0213
Landscaping	6.8487	2.5780	222.1141	0.0117		1.2122	1.2122		1.2122	1.2122			397.1409	0.3937		406.9830
Total	1,304.2075	49.1468	1,768.9512	3.1298		221.5847	221.5847		221.5847	221.5847			61,216.9206	34.8410	2.1445	62,727.0043

Town of Truckee GPU Existing Conditions - Nevada 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	40.0428					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	101.5088					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1,155.807 1	46.5688	1,546.837 1	3.1181		220.3724	220.3724		220.3724	220.3724			60,819.77 97	34.4473	2.1445	62,320.02 13
Landscaping	6.8487	2.5780	222.1141	0.0117		1.2122	1.2122		1.2122	1.2122			397.1409	0.3937		406.9830
Total	1,304.207 5	49.1468	1,768.951 2	3.1298		221.5847	221.5847		221.5847	221.5847			61,216.92 06	34.8410	2.1445	62,727.00 43

7.0 Water Detail**7.1 Mitigation Measures Water**

Town of Truckee GPU Existing Conditions - Nevada County, Winter

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

8.1 Mitigation Measures Waste**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Town of Truckee GPU Existing Conditions - Nevada County, Summer

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

Town of Truckee GPU Existing Conditions

Nevada County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	2,225.00	Dwelling Unit	722.40	4,005,000.00	6364
Apartments Mid Rise	381.00	Dwelling Unit	10.03	381,000.00	1090
General Office Building	215.00	1000sqft	4.94	215,000.00	0
Office Park	13.00	1000sqft	0.30	13,000.00	0
General Heavy Industry	49.00	1000sqft	1.12	49,000.00	0
Mobile Home Park	67.00	Dwelling Unit	8.44	80,400.00	192

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	80
Climate Zone	1			Operational Year	2018
Utility Company	User Defined				
CO2 Intensity (lb/MWhr)	463	CH4 Intensity (lb/MWhr)	0.33	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - This model runs for operational emissions only. User defined EFs adjusted to exemplify TDPUD. This modeled has been scaled by 5. Emissions estimates adjusted off-model.

Land Use - Projected square footage and dwelling units under existing conditions.

Construction Phase - This model runs for construction only.

Vehicle Trips - VMT estimated adjusted to reflect LSE Traffic Study

Area Coating - Emissions factors adjusted to reflect NSAQMD rules.

Woodstoves - Numbers adjusted to more accurately account for existing woodburing.

Town of Truckee GPU Existing Conditions - Nevada County, Summer

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

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	12,400.00	1.00
tblConstructionPhase	PhaseEndDate	7/11/2070	1/2/2023
tblFireplaces	FireplaceWoodMass	3,078.40	1,500.00
tblFireplaces	FireplaceWoodMass	3,078.40	1,500.00
tblFireplaces	FireplaceWoodMass	3,078.40	1,500.00
tblFireplaces	NumberGas	1,223.75	1,500.00
tblFireplaces	NumberNoFireplace	38.10	51.00
tblFireplaces	NumberNoFireplace	222.50	550.00
tblFireplaces	NumberWood	133.35	111.00
tblFireplaces	NumberWood	778.75	400.00
tblProjectCharacteristics	CH4IntensityFactor	0	0.33
tblProjectCharacteristics	CO2IntensityFactor	0	463
tblProjectCharacteristics	N2OIntensityFactor	0	0.004
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblWoodstoves	WoodstoveWoodMass	3,019.20	1,500.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	1,500.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	1,500.00

2.0 Emissions Summary

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

Unmitigated Construction

Mitigated Construction

[illegible]

Town of Truckee GPU Existing Conditions - Nevada 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	1,304.2075	49.1468	1,768.9512	3.1298		221.5847	221.5847		221.5847	221.5847			61,216.9206	34.8410	2.1445	62,727.0043
Energy	0.9166	7.9059	3.8708	0.0500		0.6333	0.6333		0.6333	0.6333			9,998.9571	0.1917	0.1833	10,058.3759
Mobile	198.4616	363.5429	1,843.9129	2.5693	202.0081	4.7859	206.7940	54.0024	4.5383	58.5407			261,684.3793	20.7049	16.7734	267,200.4766
Total	1,503.5856	420.5955	3,616.7349	5.7490	202.0081	227.0038	429.0119	54.0024	226.7562	280.7586			332,900.2570	55.7375	19.1012	339,985.8568

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	1,304.2075	49.1468	1,768.9512	3.1298		221.5847	221.5847		221.5847	221.5847			61,216.9206	34.8410	2.1445	62,727.0043
Energy	0.9166	7.9059	3.8708	0.0500		0.6333	0.6333		0.6333	0.6333			9,998.9571	0.1917	0.1833	10,058.3759
Mobile	198.4616	363.5429	1,843.9129	2.5693	202.0081	4.7859	206.7940	54.0024	4.5383	58.5407			261,684.3793	20.7049	16.7734	267,200.4766
Total	1,503.5856	420.5955	3,616.7349	5.7490	202.0081	227.0038	429.0119	54.0024	226.7562	280.7586			332,900.2570	55.7375	19.1012	339,985.8568

Town of Truckee GPU Existing Conditions - Nevada 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	Building Construction	Building Construction	1/2/2023	1/2/2023	5	1	

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
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

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
Building Construction	9	1,217.00	331.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

Town of Truckee GPU Existing Conditions - Nevada County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied**3.1 Mitigation Measures Construction****3.2 Building Construction - 2023****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	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584			2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584			2,555.2099	0.6079		2,570.4061

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
Vendor	0.4933	15.7143	5.6092	0.0636	2.0296	0.1004	2.1300	0.5845	0.0961	0.6806			6,734.3919	0.0457	0.9961	7,032.3822
Worker	6.2039	4.0502	53.6299	0.1393	15.5448	0.0783	15.6231	4.1223	0.0722	4.1945			14,253.4777	0.3742	0.3747	14,374.4881
Total	6.6971	19.7645	59.2391	0.2029	17.5744	0.1787	17.7531	4.7068	0.1682	4.8751			20,987.8696	0.4199	1.3708	21,406.8703

Town of Truckee GPU Existing Conditions - Nevada County, Summer

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

3.2 Building Construction - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584			2,555.2099	0.6079		2,570.4061
Total	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584			2,555.2099	0.6079		2,570.4061

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
Vendor	0.4933	15.7143	5.6092	0.0636	2.0296	0.1004	2.1300	0.5845	0.0961	0.6806			6,734.3919	0.0457	0.9961	7,032.3822
Worker	6.2039	4.0502	53.6299	0.1393	15.5448	0.0783	15.6231	4.1223	0.0722	4.1945			14,253.4777	0.3742	0.3747	14,374.4881
Total	6.6971	19.7645	59.2391	0.2029	17.5744	0.1787	17.7531	4.7068	0.1682	4.8751			20,987.8696	0.4199	1.3708	21,406.8703

4.0 Operational Detail - Mobile

Town of Truckee GPU Existing Conditions - Nevada County, Summer

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

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	198.4616	363.5429	1,843.9129	2.5693	202.0081	4.7859	206.7940	54.0024	4.5383	58.5407			261,684.3793	20.7049	16.7734	267,200.4766
Unmitigated	198.4616	363.5429	1,843.9129	2.5693	202.0081	4.7859	206.7940	54.0024	4.5383	58.5407			261,684.3793	20.7049	16.7734	267,200.4766

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	2,072.64	1,870.71	1558.29	7,327,045	7,327,045
General Heavy Industry	192.57	314.58	249.41	842,699	842,699
Mobile Home Park	335.00	308.87	284.08	1,204,838	1,204,838
Office Park	143.91	21.32	9.88	310,540	310,540
Single Family Housing	21,004.00	21,226.50	19023.75	77,174,179	77,174,179
General Office Building	2,094.10	475.15	150.50	4,376,357	4,376,357
Total	25,842.22	24,217.13	21,275.91	91,235,659	91,235,659

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	16.80	7.10	7.90	42.30	19.60	38.10	86	11	3
General Heavy Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3
Mobile Home Park	16.80	7.10	7.90	42.30	19.60	38.10	86	11	3

Town of Truckee GPU Existing Conditions - Nevada County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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
Office Park	14.70	6.60	6.60	33.00	48.00	19.00	82	15	3
Single Family Housing	16.80	7.10	7.90	42.30	19.60	38.10	86	11	3
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.342296	0.066026	0.258739	0.171564	0.066748	0.012003	0.008637	0.014681	0.001097	0.000162	0.046464	0.000578	0.011006
General Heavy Industry	0.342296	0.066026	0.258739	0.171564	0.066748	0.012003	0.008637	0.014681	0.001097	0.000162	0.046464	0.000578	0.011006
Mobile Home Park	0.342296	0.066026	0.258739	0.171564	0.066748	0.012003	0.008637	0.014681	0.001097	0.000162	0.046464	0.000578	0.011006
Office Park	0.342296	0.066026	0.258739	0.171564	0.066748	0.012003	0.008637	0.014681	0.001097	0.000162	0.046464	0.000578	0.011006
Single Family Housing	0.342296	0.066026	0.258739	0.171564	0.066748	0.012003	0.008637	0.014681	0.001097	0.000162	0.046464	0.000578	0.011006
General Office Building	0.342296	0.066026	0.258739	0.171564	0.066748	0.012003	0.008637	0.014681	0.001097	0.000162	0.046464	0.000578	0.011006

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Town of Truckee GPU Existing Conditions - Nevada 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					
NaturalGas Mitigated	0.9166	7.9059	3.8708	0.0500		0.6333	0.6333		0.6333	0.6333			9,998.9571	0.1917	0.1833	10,058.3759
NaturalGas Unmitigated	0.9166	7.9059	3.8708	0.0500		0.6333	0.6333		0.6333	0.6333			9,998.9571	0.1917	0.1833	10,058.3759

Town of Truckee GPU Existing Conditions - Nevada 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 Mid Rise	3947.16	0.0426	0.3638	0.1548	2.3200e-003		0.0294	0.0294		0.0294	0.0294			464.3718	8.9000e-003	8.5100e-003	467.1313
General Heavy Industry	467.178	5.0400e-003	0.0458	0.0385	2.7000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003			54.9621	1.0500e-003	1.0100e-003	55.2887
General Office Building	11392.1	0.1229	1.1169	0.9382	6.7000e-003		0.0849	0.0849		0.0849	0.0849			1,340.2417	0.0257	0.0246	1,348.2061
Mobile Home Park	742.198	8.0000e-003	0.0684	0.0291	4.4000e-004		5.5300e-003	5.5300e-003		5.5300e-003	5.5300e-003			87.3175	1.6700e-003	1.6000e-003	87.8364
Office Park	608.329	6.5600e-003	0.0596	0.0501	3.6000e-004		4.5300e-003	4.5300e-003		4.5300e-003	4.5300e-003			71.5681	1.3700e-003	1.3100e-003	71.9934
Single Family Housing	67834.2	0.7316	6.2514	2.6602	0.0399		0.5054	0.5054		0.5054	0.5054			7,980.4959	0.1530	0.1463	8,027.9200
Total		0.9166	7.9059	3.8708	0.0500		0.6333	0.6333		0.6333	0.6333			9,998.9571	0.1916	0.1833	10,058.3759

Town of Truckee GPU Existing Conditions - Nevada County, Summer

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

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas 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 Mid Rise	3.94716	0.0426	0.3638	0.1548	2.3200e-003		0.0294	0.0294		0.0294	0.0294			464.3718	8.9000e-003	8.5100e-003	467.1313
General Heavy Industry	0.467178	5.0400e-003	0.0458	0.0385	2.7000e-004		3.4800e-003	3.4800e-003		3.4800e-003	3.4800e-003			54.9621	1.0500e-003	1.0100e-003	55.2887
General Office Building	11.3921	0.1229	1.1169	0.9382	6.7000e-003		0.0849	0.0849		0.0849	0.0849			1,340.2417	0.0257	0.0246	1,348.2061
Mobile Home Park	0.742198	8.0000e-003	0.0684	0.0291	4.4000e-004		5.5300e-003	5.5300e-003		5.5300e-003	5.5300e-003			87.3175	1.6700e-003	1.6000e-003	87.8364
Office Park	0.608329	6.5600e-003	0.0596	0.0501	3.6000e-004		4.5300e-003	4.5300e-003		4.5300e-003	4.5300e-003			71.5681	1.3700e-003	1.3100e-003	71.9934
Single Family Housing	67.8342	0.7316	6.2514	2.6602	0.0399		0.5054	0.5054		0.5054	0.5054			7,980.4959	0.1530	0.1463	8,027.9200
Total		0.9166	7.9059	3.8708	0.0500		0.6333	0.6333		0.6333	0.6333			9,998.9571	0.1916	0.1833	10,058.3759

6.0 Area Detail

6.1 Mitigation Measures Area

Town of Truckee GPU Existing Conditions - Nevada 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	1,304.2075	49.1468	1,768.9512	3.1298		221.5847	221.5847		221.5847	221.5847			61,216.9206	34.8410	2.1445	62,727.0043
Unmitigated	1,304.2075	49.1468	1,768.9512	3.1298		221.5847	221.5847		221.5847	221.5847			61,216.9206	34.8410	2.1445	62,727.0043

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	40.0428					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	101.5088					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1,155.8071	46.5688	1,546.8371	3.1181		220.3724	220.3724		220.3724	220.3724			60,819.7797	34.4473	2.1445	62,320.0213
Landscaping	6.8487	2.5780	222.1141	0.0117		1.2122	1.2122		1.2122	1.2122			397.1409	0.3937		406.9830
Total	1,304.2075	49.1468	1,768.9512	3.1298		221.5847	221.5847		221.5847	221.5847			61,216.9206	34.8410	2.1445	62,727.0043

Town of Truckee GPU Existing Conditions - Nevada 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	40.0428					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	101.5088					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1,155.8071	46.5688	1,546.8371	3.1181		220.3724	220.3724		220.3724	220.3724			60,819.7797	34.4473	2.1445	62,320.0213
Landscaping	6.8487	2.5780	222.1141	0.0117		1.2122	1.2122		1.2122	1.2122			397.1409	0.3937		406.9830
Total	1,304.2075	49.1468	1,768.9512	3.1298		221.5847	221.5847		221.5847	221.5847			61,216.9206	34.8410	2.1445	62,727.0043

7.0 Water Detail

7.1 Mitigation Measures Water

Town of Truckee GPU Existing Conditions - Nevada County, Summer

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

8.1 Mitigation Measures Waste**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
