

Appendix G

**Air Quality and Greenhouse Gas
Modeling Data**

Emissions Summary

Air Quality

Construction

<u>Activity</u>	<u>Source</u>	<u>ROG (lb/day)</u>	<u>NOX (lb/day)</u>	<u>PM10 (lb/day)</u>	<u>PM2.5 (lb/day)</u>
Helicopter Max Daily Construction	Helicopter Construction Emissions Sheet	35.51	13.4	<1	<1
off-road equipment and worker commute	CalEEMod Summer Construction Output	4.7	54.8	18.2	9.6
		40.21	68.2	18.200	9.600

		<u>ROG (ton/yr)</u>	<u>NOX (ton/yr)</u>
Helicopter Annual Emissions	Helicopter Construction Emissions Sheet	0.4	0.1
off-road equipment and worker commute	CalEEMod Annual Construction Output	0.3	2.9
		0.7	3.0

Operations

<u>Activity</u>	<u>Source</u>	<u>ROG (lb/day)</u>	<u>NOX (lb/day)</u>	<u>PM10 (lb/day)</u>	<u>PM2.5 (lb/day)</u>
Mobile	CalEEMod Winter Operational Output	1.34	9.70	4.20	1.20
Maintenance (off-road equipment)	CalEEMod Winter Operational Output	1.55	17.20	0.60	0.60
Gazex	Gazex Emissions Summary Sheet	0.21	2.77	0.15	0.01
Total		3.1	29.7	4.9	1.8

assumed 10 percent of pm 2.5

Greenhouse Gas

<u>Activity</u>	<u>Source</u>	<u>MT CO2E</u>	
Helicopter (Construction)	Helicopter Construction Emissions Sheet	38	mtco2e in 200 day construction period
Offroad Equipment (Construction)	CalEEMod Construction Annual Output	421	mtco2e in 200 day construction period
Tree Removal (Construction)	CalEEMod Construction Annual Output	100	mtco2e in 200 day construction period
Gazex (Operations)	Gazex Emissions Summary Sheet	0.003	mtco2e/yr
Mobile Sources (operations)	CalEEMod Annual Operational Output	430	mtco2e/yr
Gondola "building Energy" (Operations)	Building Energy Summary Sheet	313	mtco2e/yr
Off-road Maintenance Vehicles (Operations)	CalEEMod Annual Operational Output	12	mtco2e/yr
Building Energy (construction trailer)	Building Energy Summary Sheet	8.5	mtco2e/yr
construction total		568	mtco2e in 200 day construction period
operational total		755	mtco2e/yr

Helicopter Construction Emissions

Annual GHG Emissions

Helicopter operation	Value	Source
Fuel Used	Jet A	
Gallons of jet fuel used per hour	30	Bell 206B Specifications: http://www.deltahelicopters.com
gallons of fuel used per LTO	5.9	FOCA 2009
Average hours/day (assumes 2 LTO/hr)	6.00	assumption
Max hours/day (assumes 2 LTO/hr)	8.00	assumption
Total Days Helicopter Used	20.00	assumption
hours in construction phase	122	Calculated
gallons used for LTO	244	Calculated
Gallons used for cruising	3660	Calculated
Total gallons used in construction phase	3904	Calculated
Jet A Emissions Factor (kg CO2/gal)	9.7497	Climate Registry 2015 Emission Factors
Jet A Emissions Factor (kg N2O/gal)	0.000308	Climate Registry 2015 Emission Factors
GWP N2O	298	
LTO MTCO2E	2	Calculated
Cruising MTCO2E	36	Calculated
Total MTCO2E	38	Calculated
<i>Note: No emission factor available for CH4 helicopter emissions.</i>		

Emissions Calculations					
	HC	ROG (6)	NOX	PM Non-Volatile	Source
LTO EF (g/LTO)*	385	488	75	3	
Cruising EF (g/hour)*	820	1038	610	19	
Max Cruising Emissions per day (lbs/day)	14.5	18.3	10.8	0.335	
Max LTO Emissions per day (lb/day)	14	17.2	2.6	0.106	
Total Maximum Daily emissions (lb/day)	28.0	35.5	13.4	0.441	
* Assumes Bell 206B with single DDA250-c20 Engine					

Sources

The Climate Registry 2015 Emission Factors

Bell Helicopters (http://www.bellhelicopter.com/MungoBlobs/179/863/429STD_SPCP_150116-R01_EN_WEB.pdf)

FOCA 2009.

(http://www.bafu.admin.ch/klima/13879/13880/14577/15536/index.html?lang=en&download=NHzLpZeg7t,Inp6i0NTU042I2Z6ln1ad1IZn4Z2qZpnO2Yuuq2Z6gpJCGd4N8hGym162epYbg2c_JjKbNoKSn6A--)

Gazex Exploder Emissions Summary

Emissions

Annual CO2 Emissions

Annual MT CO2 0.003262098

Propane Energy Content

1 gallon	91330	Btu
1 cubic foot	2550	Btu
	0.027921	

Maximum Daily Criteria Air Pollutant Emissions

NOx	2.77
ROG	0.21
PM	0.15

Assumptions

Gazex Propane Per Explosion

			<u>Source</u>
propane volume (metric) per explosion	3	m ³	Gazex brochure
propane volume (english) per explosion	105.9	ft ³	conversion
propane volume (liquid english) per explosion	3.0	gallons	conversion

Annual Propane Use

Total Explosions (16 explosion/week*4 weeks/month*4 months)	256	m ³	assumption
Total propane use per year	768	m ³	calculation

Max Daily Propane Use

Maximum Explosions in one day	24		assumption
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Volume

m ³	72	calculation
gallons	213	calculation
1000 gallons	0.21	calculation

Propane Conversion factors

35.3147	m ³ /ft ³	Google
0.027920727	ft ³ /gal	Department of Revenue Services State of Connecticut

Propane Emissions Factor s

CO2

0.15	kg/scf	CAR 2016
0.004247523	kg/m ³	
4.24752E-06	mt/m ³	

PM	0.7	lb/1000 gal
NOX	13	lb/1000 gal
ROG/TOC	1	lb/1000 gal

Building Energy Summary Sheet

Gondola "Building Energy" Operations

Daily Energy Use	7164 kwh/day	source
Hourly Energy Use	716.4 kwh	Leitner Poma (applicant)
Daily Hours in Operation	10 hours	Leitner Poma (applicant)
days in season (4 months*31 days)	124	
Maintenance hours (off-season)	100 hours	

Season Energy Use	888336 kwh	
Off-Season Energy Use (100 hours)	71640 kwh	Leitner Poma (applicant)
Total Annual Energy Use	959,976 kwh	
	959.98 mwh	

Operational Building Energy (electricity) Emissions Summary	
Annual MTCO2E	
co2	312.17
ch4	0.01
n20	0.00
Total CO2E/yr	313.27

Utility Intensity Factors

Electricity

		Source
Co2	716.92 lb/mwh	Sierra Pacific Resources Utility (now Liberty
Ch4	0.029 lb/mwh	Utilities) Factor from CalEEMod adjusted based
N20	0.006 lb/mwh	on meeting 2020 RPS of 33% renewable

Co2	0.325189442 mt/mwh
Ch4	1.31542E-05 mt/mwh
N20	2.72155E-06 mt/mwh

Natural Gas

				<u>Source</u>
NOx	94	lb/10 ⁶ scf	0.09215686 lb/MMBtu	EPA AP-42 1.4 Natural Gas Combustion
ROG/VOC	5.5	lb/10 ⁶ scf	0.00539216 lb/MMBtu	EPA AP-42 1.4 Natural Gas Combustion
PM (Total)	7.6	lb/10 ⁶ scf	0.00745098 lb/MMBtu	EPA AP-42 1.4 Natural Gas Combustion
methane	2.3	lb/10 ⁶ scf	0.0022549 lb/MMBtu	EPA AP-42 1.4 Natural Gas Combustion
co2	120000	lb/10 ⁶ scf	117.647059 lb/MMBtu	EPA AP-42 1.4 Natural Gas Combustion
n20	2.2	lb/10 ⁶ scf	0.00215686 lb/MMBtu	EPA AP-42 1.4 Natural Gas Combustion

Construction Office Building Energy Emissions

Land Use	Size	unit
General Office Building	3,200	sf

Energy Use

Electricity (CalEEMod use data)	kwh/size//yr	kwh/yr	MWH/yr	MWH for 200 day construction
Title 24 Electricity	3.22	10,304		
Non Title 24 Electricity	3.62	11,584		
Lighting Energy	3.17	10,144		
Total		32,032	32.03	18

Natural Gas*	KBTU/Size/yr	KBTU/yr	KBTU for 200 day construction	BTU
Title 24 Natural Gas	15.99	51168		
NonTitle 24 Natural Gas	0.47	1504		
Total		52672	28,861	28861369.863

Construction Building Emissions Summary

GHG Emissions	mt/yr	MWH (lighting)	
Electricity			18
co2	8.458	Kwh Heating/Cooling	8458.431643
ch4	0.00034	MWH Heating/Cooling	8.458431643
n20	0.00007	Total MWH	26
Total Electricity Co2e/yr	8.49		
TOTAL CO2E	8.49		

*natural gas consumption used to determine energy need for construction trailer likely to use electricity only.

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VMT Estimates

Existing Plus Project Conditions

Scenario 1 = 100% New Trips

Saturday VMT

	<u>%</u>	<u>ADT</u>	<u>Trip Length</u>	<u>VMT</u>
Squaw Valley		284		
<u>Inbound Trips</u>		142		
Truckee	31.0%	44.02	12	528.24
Reno	12.0%	17.04	44	749.76
Tahoe North Shore	28.0%	39.76	11	437.36
Bay Area	9.0%	12.78	185	2364.3
Tahoe South Shore	5.0%	7.1	39	276.9
Tahoe West Shore	7.0%	9.94	15	149.1
Sacramento/Central Valley	8.0%	11.36	130	1476.8
	100.0%	142	SUM	5982.46
		Average trip length	42.13	
<u>Outbound Trips</u>		142		
Truckee	31.0%	44.02	12	528.24
Reno	12.0%	17.04	44	749.76
Tahoe North Shore	28.0%	39.76	11	437.36
Bay Area	9.0%	12.78	185	2364.3
Tahoe South Shore	5.0%	7.1	39	276.9
Tahoe West Shore	7.0%	9.94	15	149.1
Sacramento/Central Valley	8.0%	11.36	130	1476.8
	100.0%	142	SUM	5982.46

Alpine Meadows

	<u>%</u>	<u>ADT</u>	<u>Trip Length</u>	<u>VMT</u>
Alpine Meadows		122		
<u>Inbound Trips</u>		61		
Truckee	29.0%	17.69	14	247.66
Reno	11.0%	6.71	46	308.66
Tahoe North Shore	32.0%	19.52	10	195.2
Bay Area	8.0%	4.88	187	912.56
Tahoe South Shore	5.0%	3.05	38	115.9
Tahoe West Shore	8.0%	4.88	14	68.32
Sacramento/Central Valley	7.0%	4.27	132	563.64
	100.0%	61	SUM	2411.94
		Average trip length	39.54	
<u>Outbound Trips</u>		61		
Truckee	29.0%	17.69	14	247.66
Reno	11.0%	6.71	46	308.66
Tahoe North Shore	32.0%	19.52	10	195.2
Bay Area	8.0%	4.88	187	912.56
Tahoe South Shore	5.0%	3.05	38	115.9
Tahoe West Shore	8.0%	4.88	14	68.32
Sacramento/Central Valley	7.0%	4.27	132	563.64
	100.0%	61	SUM	2411.94

VMT Generated by New Skiers **16788.8**
 VMT Chagne due to Skier Redistribution -83
 Employee VMT 272 daily trips to both resorts=
 Reduced Shuttle VMT -336 eliminated shuttle round trips =

16 Weighted Avg Trip length = 17
 -24 trip dist = 14
 shuttles run every 20 minutes from 8:30 am to 4:30 p.m.

TOTAL CHANGE IN VMT on Saturday 16642

Sunday VMT

	<u>%</u>	<u>ADT</u>	<u>Trip Length</u>	<u>VMT</u>
Squaw Valley		290		
<u>Inbound Trips</u>		145		
Truckee	31.0%	44.95	12	539.4
Reno	12.0%	17.4	44	765.6
Tahoe North Shore	28.0%	40.6	11	446.6
Bay Area	9.0%	13.05	185	2414.25
Tahoe South Shore	5.0%	7.25	39	282.75
Tahoe West Shore	7.0%	10.15	15	152.25
Sacramento/Central Valley	8.0%	11.6	130	1508
	100.0%	145	SUM	6108.85
<u>Outbound Trips</u>		145		
Truckee	33.0%	47.85	12	574.2
Reno	14.0%	20.3	44	893.2
Tahoe North Shore	22.0%	31.9	11	350.9
Bay Area	12.0%	17.4	185	3219
Tahoe South Shore	3.0%	4.35	39	169.65
Tahoe West Shore	5.0%	7.25	15	108.75
Sacramento/Central Valley	11.0%	15.95	130	2073.5
	100.0%	145	SUM	7389.2

Alpine Meadows

	<u>%</u>	<u>ADT</u>	<u>Trip Length</u>	<u>VMT</u>
Alpine Meadows		126		
<u>Inbound Trips</u>		63		
Truckee	29.0%	18.27	14	255.78
Reno	11.0%	6.93	46	318.78
Tahoe North Shore	32.0%	20.16	10	201.6
Bay Area	8.0%	5.04	187	942.48
Tahoe South Shore	5.0%	3.15	38	119.7
Tahoe West Shore	8.0%	5.04	14	70.56
Sacramento/Central Valley	7.0%	4.41	132	582.12
	100.0%	63	SUM	2491.02
<u>Outbound Trips</u>		63		
Truckee	30.0%	18.9	14	264.6
Reno	12.0%	7.56	46	347.76
Tahoe North Shore	29.0%	18.27	10	182.7
Bay Area	9.0%	5.67	187	1060.29
Tahoe South Shore	4.0%	2.52	38	95.76
Tahoe West Shore	7.0%	4.41	14	61.74
Sacramento/Central Valley	9.0%	5.67	132	748.44
	100.0%	63	SUM	2761.29

VMT Generated by New Skiers 18750.36
 VMT Chagne due to Skier Redistribution -1363 Greater than Saturday due to greater shifts to Squaw Valley.
 Employee VMT 272 daily trips to both resorts=
 Reduced Shuttle VMT -336 eliminated shuttle round trips =

16 Weighted Avg Trip length = 17
 -24 trip dist = 14

TOTAL CHANGE IN VMT on Sunday 17323

GHG Emission Assumptions

Category	Value	Notes	Source
Conversions			
g/lb	453.592		
g/MT	1000000		
lb/MT	2204.623		
kg/MT	1000		
kWh/MWh	1000		
MWh/GWh	1000		
Btu/therm	100000		
MMBtu/therm	0.1		
LPG Gallons/GGE	1.344086		
LNG Gallons/GGE	1.572327		
gal/cubic foot	7.480519		
kw/btu	3412.142		
gal/Liter	3.785412		
gallon/acrefoot	325851.4		
lb jet fuel/gallon	6.79		
lb/kg	2.2		
GWP			
CO2	1		
CH4	25		
N2O	298		

Alpine B2B Construction - Placer-Lake Tahoe County, Summer

Alpine B2B Construction
Placer-Lake Tahoe County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	5.50	Acre	5.50	239,580.00	0
Enclosed Parking Structure	8.26	1000sqft	0.19	8,260.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	14	Operational Year		2020	

Utility Company Not Applicable for construction run- see off-model calcs for construction building emissions estimates

CO2 Intensity (lb/MW hr)	CH4 Intensity (lb/MW hr)	N2O Intensity (lb/MW hr)
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1.3 User Entered Comments & Non-Default Data

Alpine B2B Construction - Placer-Lake Tahoe County, Summer

Project Characteristics -

Land Use - park used to represent recreational area (Squaw/Alpine). Parking structure used to represent combined sf of terminals, mid-stations, and shelters being constructed

Construction Phase - 200 days construction based on information in PD.

Grading - total acreage based on total combined disturbance area for all components being constructed

Vehicle Trips - run used for construction only

Consumer Products - run being used for construction only

Energy Use - run being used for construction only- see off-model calcs for construction building energy estimates

Water And Wastewater - run being used for construction only

Solid Waste - run being used for construction only

Land Use Change - 500 trees to be removed: assumed 560 trees/acre based on average spacing for purposes of reforestation (South Carolina Forestry Commission)

Sequestration -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	230.00	150.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	PhaseEndDate	3/1/2019	11/14/2019
tblConstructionPhase	PhaseEndDate	4/26/2019	12/12/2019
tblConstructionPhase	PhaseEndDate	3/29/2019	11/28/2019
tblConstructionPhase	PhaseEndDate	4/13/2018	4/18/2019
tblConstructionPhase	PhaseStartDate	4/14/2018	4/19/2019
tblConstructionPhase	PhaseStartDate	3/30/2019	11/29/2019
tblConstructionPhase	PhaseStartDate	3/2/2019	11/15/2019
tblConstructionPhase	PhaseStartDate	4/2/2018	3/8/2019
tblEnergyUse	LightingElect	1.75	0.00

Alpine B2B Construction - Placer-Lake Tahoe County, Summer

tblEnergyUse	T24E	3.92	0.00
tblGrading	AcresOfGrading	0.00	5.50
tblGrading	MaterialExported	0.00	7,500.00
tblGrading	MaterialSiltContent	6.90	4.30
tblGrading	MeanVehicleSpeed	7.10	40.00
tblSolidWaste	SolidWasteGenerationRate	0.47	0.00
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblWater	OutdoorWaterUseRate	6,553,147.42	0.00

2.0 Emissions Summary

Alpine B2B Construction - Placer-Lake Tahoe County, Summer

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0160	1.0000e-005	1.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.0100e-003	3.0100e-003	1.0000e-005		3.2100e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0160	1.0000e-005	1.4100e-003	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	1.0000e-005	1.0000e-005		3.0100e-003	3.0100e-003	1.0000e-005	0.0000	3.2100e-003

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0160	1.0000e-005	1.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.0100e-003	3.0100e-003	1.0000e-005		3.2100e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0160	1.0000e-005	1.4100e-003	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	1.0000e-005	1.0000e-005		3.0100e-003	3.0100e-003	1.0000e-005	0.0000	3.2100e-003

Alpine B2B Construction - Placer-Lake Tahoe County, Summer

	ROG	NOx	CO	SO2	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	3/8/2019	4/18/2019	5	30	
2	Building Construction	Building Construction	4/19/2019	11/14/2019	5	150	
3	Paving	Paving	11/15/2019	11/28/2019	5	10	
4	Arch	Architectural Coating	11/29/2019	12/12/2019	5	10	

Acres of Grading (Site Preparation Phase): 5.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.19

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 496 (Architectural Coating – sqft)

OffRoad Equipment

Alpine B2B Construction - Placer-Lake Tahoe County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
arch	Air Compressors	1	6.00	78	0.48
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
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
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
arch	1	21.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	938.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	104.00	41.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Alpine B2B Construction - Placer-Lake Tahoe County, Summer

3.2 Site Preparation - 2019

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					15.0871	0.0000	15.0871	7.2160	0.0000	7.2160			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991		3,766.4529	3,766.4529	1.1917		3,796.2445
Total	4.3350	45.5727	22.0630	0.0380	15.0871	2.3904	17.4775	7.2160	2.1991	9.4152		3,766.4529	3,766.4529	1.1917		3,796.2445

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	0.2774	9.1370	1.4368	0.0261	0.5470	0.0391	0.5861	0.1500	0.0374	0.1873		2,737.1996	2,737.1996	0.0913		2,739.4829
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	0.0763	0.0434	0.5866	1.5300e-003	0.1479	9.6000e-004	0.1488	0.0392	8.8000e-004	0.0401		152.2195	152.2195	4.1400e-003		152.3229
Total	0.3537	9.1804	2.0234	0.0277	0.6949	0.0400	0.7349	0.1892	0.0383	0.2274		2,889.4191	2,889.4191	0.0955		2,891.8059

Alpine B2B Construction - Placer-Lake Tahoe County, Summer

3.2 Site Preparation - 2019

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					15.0871	0.0000	15.0871	7.2160	0.0000	7.2160			0.0000			0.0000
Off-Road	4.3350	45.5727	22.0630	0.0380		2.3904	2.3904		2.1991	2.1991	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445
Total	4.3350	45.5727	22.0630	0.0380	15.0871	2.3904	17.4775	7.2160	2.1991	9.4152	0.0000	3,766.4529	3,766.4529	1.1917		3,796.2445

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	0.2774	9.1370	1.4368	0.0261	0.5470	0.0391	0.5861	0.1500	0.0374	0.1873		2,737.1996	2,737.1996	0.0913		2,739.4829
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	0.0763	0.0434	0.5866	1.5300e-003	0.1479	9.6000e-004	0.1488	0.0392	8.8000e-004	0.0401		152.2195	152.2195	4.1400e-003		152.3229
Total	0.3537	9.1804	2.0234	0.0277	0.6949	0.0400	0.7349	0.1892	0.0383	0.2274		2,889.4191	2,889.4191	0.0955		2,891.8059

Alpine B2B Construction - Placer-Lake Tahoe County, Summer

3.3 Building Construction - 2019

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	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.580 2	2,591.580 2	0.6313		2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127		2,591.580 2	2,591.580 2	0.6313		2,607.363 5

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	0.1776	5.1925	0.9974	0.0122	0.2777	0.0317	0.3094	0.0800	0.0303	0.1102		1,275.187 5	1,275.187 5	0.0626		1,276.752 8
Worker	0.4409	0.2508	3.3893	8.8300e-003	0.8543	5.5500e-003	0.8599	0.2266	5.1100e-003	0.2317		879.4905	879.4905	0.0239		880.0880
Total	0.6185	5.4433	4.3868	0.0210	1.1321	0.0372	1.1693	0.3066	0.0354	0.3420		2,154.678 0	2,154.678 0	0.0865		2,156.840 8

Alpine B2B Construction - Placer-Lake Tahoe County, Summer

3.3 Building Construction - 2019

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	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5
Total	2.3612	21.0788	17.1638	0.0269		1.2899	1.2899		1.2127	1.2127	0.0000	2,591.580 2	2,591.580 2	0.6313		2,607.363 5

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	0.1776	5.1925	0.9974	0.0122	0.2777	0.0317	0.3094	0.0800	0.0303	0.1102		1,275.187 5	1,275.187 5	0.0626		1,276.752 8
Worker	0.4409	0.2508	3.3893	8.8300e-003	0.8543	5.5500e-003	0.8599	0.2266	5.1100e-003	0.2317		879.4905	879.4905	0.0239		880.0880
Total	0.6185	5.4433	4.3868	0.0210	1.1321	0.0372	1.1693	0.3066	0.0354	0.3420		2,154.678 0	2,154.678 0	0.0865		2,156.840 8

Alpine B2B Construction - Placer-Lake Tahoe County, Summer

3.4 Paving - 2019

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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548

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	0.0636	0.0362	0.4889	1.2700e-003	0.1232	8.0000e-004	0.1240	0.0327	7.4000e-004	0.0334		126.8496	126.8496	3.4500e-003		126.9358
Total	0.0636	0.0362	0.4889	1.2700e-003	0.1232	8.0000e-004	0.1240	0.0327	7.4000e-004	0.0334		126.8496	126.8496	3.4500e-003		126.9358

Alpine B2B Construction - Placer-Lake Tahoe County, Summer

3.4 Paving - 2019

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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548

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	0.0636	0.0362	0.4889	1.2700e-003	0.1232	8.0000e-004	0.1240	0.0327	7.4000e-004	0.0334		126.8496	126.8496	3.4500e-003		126.9358
Total	0.0636	0.0362	0.4889	1.2700e-003	0.1232	8.0000e-004	0.1240	0.0327	7.4000e-004	0.0334		126.8496	126.8496	3.4500e-003		126.9358

Alpine B2B Construction - Placer-Lake Tahoe County, Summer

3.5 arch - 2019

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	0.2299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	0.4963	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

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	0.0890	0.0506	0.6844	1.7800e-003	0.1725	1.1200e-003	0.1736	0.0458	1.0300e-003	0.0468		177.5894	177.5894	4.8300e-003		177.7101
Total	0.0890	0.0506	0.6844	1.7800e-003	0.1725	1.1200e-003	0.1736	0.0458	1.0300e-003	0.0468		177.5894	177.5894	4.8300e-003		177.7101

Alpine B2B Construction - Placer-Lake Tahoe County, Summer

3.5 arch - 2019

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	0.2299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	0.4963	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423

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	0.0890	0.0506	0.6844	1.7800e-003	0.1725	1.1200e-003	0.1736	0.0458	1.0300e-003	0.0468		177.5894	177.5894	4.8300e-003		177.7101
Total	0.0890	0.0506	0.6844	1.7800e-003	0.1725	1.1200e-003	0.1736	0.0458	1.0300e-003	0.0468		177.5894	177.5894	4.8300e-003		177.7101

4.0 Operational Detail - Mobile

Alpine B2B Construction - Placer-Lake Tahoe County, Summer

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Enclosed Parking Structure	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Alpine B2B Construction - Placer-Lake Tahoe County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.489257	0.041257	0.220156	0.132626	0.025790	0.006586	0.027831	0.045583	0.001467	0.001229	0.006102	0.000783	0.001333
Enclosed Parking Structure	0.489257	0.041257	0.220156	0.132626	0.025790	0.006586	0.027831	0.045583	0.001467	0.001229	0.006102	0.000783	0.001333

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Alpine B2B Construction - Placer-Lake Tahoe County, Summer

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

Alpine B2B Construction - Placer-Lake Tahoe County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0160	1.0000e-005	1.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.0100e-003	3.0100e-003	1.0000e-005		3.2100e-003
Unmitigated	0.0160	1.0000e-005	1.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.0100e-003	3.0100e-003	1.0000e-005		3.2100e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	6.3000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0153					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3000e-004	1.0000e-005	1.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.0100e-003	3.0100e-003	1.0000e-005		3.2100e-003
Total	0.0160	1.0000e-005	1.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.0100e-003	3.0100e-003	1.0000e-005		3.2100e-003

Alpine B2B Construction - Placer-Lake Tahoe County, Summer

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	6.3000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0153					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3000e-004	1.0000e-005	1.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.0100e-003	3.0100e-003	1.0000e-005		3.2100e-003
Total	0.0160	1.0000e-005	1.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.0100e-003	3.0100e-003	1.0000e-005		3.2100e-003

7.0 Water Detail

7.1 Mitigation Measures Water

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

Alpine B2B Construction - Placer-Lake Tahoe County, Summer

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

Alpine B2B Construction - Placer-Lake Tahoe County, Annual

Alpine B2B Construction
Placer-Lake Tahoe County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	5.50	Acre	5.50	239,580.00	0
Enclosed Parking Structure	8.26	1000sqft	0.19	8,260.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	14			Operational Year	2020
Utility Company	Not applicable for construction run- see off-model calcs for construction building energy emissions estimates				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use - park used to represent recreational area (Squaw/Alpine). Parking structure used to represent combined sf of terminals, mid-stations, and shelters being constructed

Construction Phase - 200 days construction based on information in PD.

Grading - total acreage based on total combined disturbance area for all components being constructed

Vehicle Trips - run used for construction only

Consumer Products - run being used for construction only

Energy Use - run being used for construction only- see off-model calcs for construction building energy estimates

Water And Wastewater - run being used for construction only

Solid Waste - run being used for construction only

Land Use Change - 500 trees to be removed: assumed 560 trees/acre based on average spacing for purposes of reforestation (South Carolina Forestry Commission)

Sequestration -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	230.00	150.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	10.00	30.00
tblConstructionPhase	PhaseEndDate	3/1/2019	11/14/2019
tblConstructionPhase	PhaseEndDate	4/26/2019	12/12/2019
tblConstructionPhase	PhaseEndDate	3/29/2019	11/28/2019
tblConstructionPhase	PhaseEndDate	4/13/2018	4/18/2019
tblConstructionPhase	PhaseStartDate	4/14/2018	4/19/2019
tblConstructionPhase	PhaseStartDate	3/30/2019	11/29/2019
tblConstructionPhase	PhaseStartDate	3/2/2019	11/15/2019
tblConstructionPhase	PhaseStartDate	4/2/2018	3/8/2019
tblEnergyUse	LightingElect	1.75	0.00

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tblEnergyUse	T24E	3.92	0.00
tblGrading	AcresOfGrading	0.00	5.50
tblGrading	MaterialExported	0.00	7,500.00
tblGrading	MaterialSiltContent	6.90	4.30
tblGrading	MeanVehicleSpeed	7.10	40.00
tblSolidWaste	SolidWasteGenerationRate	0.47	0.00
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TL	7.30	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblWater	OutdoorWaterUseRate	6,553,147.42	0.00

2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
4	1-2-2019	4-1-2019	0.5330	0.5330
5	4-2-2019	7-1-2019	1.1406	1.1406
6	7-2-2019	9-30-2019	0.9588	0.9588
		Highest	1.1406	1.1406

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.9100e-003	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.9100e-003	0.0000	1.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-004

Alpine B2B Construction - Placer-Lake Tahoe County, Annual

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	0.0000
Vegetation Land Change	-99.9000
Total	-99.9000

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	3/8/2019	4/18/2019	5	30	
2	Building Construction	Building Construction	4/19/2019	11/14/2019	5	150	
3	Paving	Paving	11/15/2019	11/28/2019	5	10	
4	Arch	Architectural Coating	11/29/2019	12/12/2019	5	10	

Acres of Grading (Site Preparation Phase): 5.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.19

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 496 (Architectural Coating – sqft)

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OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
arch	Air Compressors	1	6.00	78	0.48
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
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
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
arch	1	21.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	938.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	104.00	41.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2263	0.0000	0.2263	0.1082	0.0000	0.1082	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0650	0.6836	0.3310	5.7000e-004		0.0359	0.0359		0.0330	0.0330	0.0000	51.2530	51.2530	0.0162	0.0000	51.6584
Total	0.0650	0.6836	0.3310	5.7000e-004	0.2263	0.0359	0.2622	0.1082	0.0330	0.1412	0.0000	51.2530	51.2530	0.0162	0.0000	51.6584

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.2300e-003	0.1408	0.0228	3.9000e-004	7.8900e-003	5.9000e-004	8.4800e-003	2.1700e-003	5.7000e-004	2.7400e-003	0.0000	36.8882	36.8882	1.3100e-003	0.0000	36.9209
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0200e-003	7.4000e-004	7.8200e-003	2.0000e-005	2.1200e-003	1.0000e-005	2.1300e-003	5.6000e-004	1.0000e-005	5.8000e-004	0.0000	1.8905	1.8905	5.0000e-005	0.0000	1.8918
Total	5.2500e-003	0.1415	0.0307	4.1000e-004	0.0100	6.0000e-004	0.0106	2.7300e-003	5.8000e-004	3.3200e-003	0.0000	38.7786	38.7786	1.3600e-003	0.0000	38.8127

Alpine B2B Construction - Placer-Lake Tahoe County, Annual

3.2 Site Preparation - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2263	0.0000	0.2263	0.1082	0.0000	0.1082	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0650	0.6836	0.3309	5.7000e-004		0.0359	0.0359		0.0330	0.0330	0.0000	51.2530	51.2530	0.0162	0.0000	51.6584
Total	0.0650	0.6836	0.3309	5.7000e-004	0.2263	0.0359	0.2622	0.1082	0.0330	0.1412	0.0000	51.2530	51.2530	0.0162	0.0000	51.6584

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.2300e-003	0.1408	0.0228	3.9000e-004	7.8900e-003	5.9000e-004	8.4800e-003	2.1700e-003	5.7000e-004	2.7400e-003	0.0000	36.8882	36.8882	1.3100e-003	0.0000	36.9209
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0200e-003	7.4000e-004	7.8200e-003	2.0000e-005	2.1200e-003	1.0000e-005	2.1300e-003	5.6000e-004	1.0000e-005	5.8000e-004	0.0000	1.8905	1.8905	5.0000e-005	0.0000	1.8918
Total	5.2500e-003	0.1415	0.0307	4.1000e-004	0.0100	6.0000e-004	0.0106	2.7300e-003	5.8000e-004	3.3200e-003	0.0000	38.7786	38.7786	1.3600e-003	0.0000	38.8127

Alpine B2B Construction - Placer-Lake Tahoe County, Annual

3.3 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1771	1.5809	1.2873	2.0200e-003		0.0967	0.0967		0.0910	0.0910	0.0000	176.3282	176.3282	0.0430	0.0000	177.4020
Total	0.1771	1.5809	1.2873	2.0200e-003		0.0967	0.0967		0.0910	0.0910	0.0000	176.3282	176.3282	0.0430	0.0000	177.4020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0136	0.3962	0.0821	9.0000e-004	0.0201	2.4000e-003	0.0225	5.8100e-003	2.3000e-003	8.1100e-003	0.0000	85.5515	85.5515	4.5100e-003	0.0000	85.6641
Worker	0.0295	0.0214	0.2260	6.0000e-004	0.0613	4.2000e-004	0.0617	0.0163	3.8000e-004	0.0167	0.0000	54.6136	54.6136	1.5000e-003	0.0000	54.6510
Total	0.0431	0.4175	0.3081	1.5000e-003	0.0813	2.8200e-003	0.0842	0.0221	2.6800e-003	0.0248	0.0000	140.1651	140.1651	6.0100e-003	0.0000	140.3151

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3.3 Building Construction - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1771	1.5809	1.2873	2.0200e-003		0.0967	0.0967		0.0910	0.0910	0.0000	176.3279	176.3279	0.0430	0.0000	177.4018
Total	0.1771	1.5809	1.2873	2.0200e-003		0.0967	0.0967		0.0910	0.0910	0.0000	176.3279	176.3279	0.0430	0.0000	177.4018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0136	0.3962	0.0821	9.0000e-004	0.0201	2.4000e-003	0.0225	5.8100e-003	2.3000e-003	8.1100e-003	0.0000	85.5515	85.5515	4.5100e-003	0.0000	85.6641
Worker	0.0295	0.0214	0.2260	6.0000e-004	0.0613	4.2000e-004	0.0617	0.0163	3.8000e-004	0.0167	0.0000	54.6136	54.6136	1.5000e-003	0.0000	54.6510
Total	0.0431	0.4175	0.3081	1.5000e-003	0.0813	2.8200e-003	0.0842	0.0221	2.6800e-003	0.0248	0.0000	140.1651	140.1651	6.0100e-003	0.0000	140.3151

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3.4 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.2700e-003	0.0762	0.0733	1.1000e-004		4.1200e-003	4.1200e-003		3.7900e-003	3.7900e-003	0.0000	10.2376	10.2376	3.2400e-003	0.0000	10.3186
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	7.2700e-003	0.0762	0.0733	1.1000e-004		4.1200e-003	4.1200e-003		3.7900e-003	3.7900e-003	0.0000	10.2376	10.2376	3.2400e-003	0.0000	10.3186

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.1000e-004	2.1700e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5251	0.5251	1.0000e-005	0.0000	0.5255
Total	2.8000e-004	2.1000e-004	2.1700e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5251	0.5251	1.0000e-005	0.0000	0.5255

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3.4 Paving - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.2700e-003	0.0762	0.0733	1.1000e-004		4.1200e-003	4.1200e-003		3.7900e-003	3.7900e-003	0.0000	10.2376	10.2376	3.2400e-003	0.0000	10.3186
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	7.2700e-003	0.0762	0.0733	1.1000e-004		4.1200e-003	4.1200e-003		3.7900e-003	3.7900e-003	0.0000	10.2376	10.2376	3.2400e-003	0.0000	10.3186

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.1000e-004	2.1700e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5251	0.5251	1.0000e-005	0.0000	0.5255
Total	2.8000e-004	2.1000e-004	2.1700e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5251	0.5251	1.0000e-005	0.0000	0.5255

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3.5 arch - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3300e-003	9.1800e-003	9.2100e-003	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	1.2766	1.2766	1.1000e-004	0.0000	1.2793
Total	2.4800e-003	9.1800e-003	9.2100e-003	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	1.2766	1.2766	1.1000e-004	0.0000	1.2793

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.9000e-004	3.0400e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7352	0.7352	2.0000e-005	0.0000	0.7357
Total	4.0000e-004	2.9000e-004	3.0400e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7352	0.7352	2.0000e-005	0.0000	0.7357

Alpine B2B Construction - Placer-Lake Tahoe County, Annual

3.5 arch - 2019

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.1500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.3300e-003	9.1800e-003	9.2100e-003	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	1.2766	1.2766	1.1000e-004	0.0000	1.2793
Total	2.4800e-003	9.1800e-003	9.2100e-003	1.0000e-005		6.4000e-004	6.4000e-004		6.4000e-004	6.4000e-004	0.0000	1.2766	1.2766	1.1000e-004	0.0000	1.2793

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-004	2.9000e-004	3.0400e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7352	0.7352	2.0000e-005	0.0000	0.7357
Total	4.0000e-004	2.9000e-004	3.0400e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7352	0.7352	2.0000e-005	0.0000	0.7357

4.0 Operational Detail - Mobile

Alpine B2B Construction - Placer-Lake Tahoe County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Enclosed Parking Structure	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Alpine B2B Construction - Placer-Lake Tahoe County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

Alpine B2B Construction - Placer-Lake Tahoe County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.9100e-003	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-004
Unmitigated	2.9100e-003	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.1000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.7900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-004
Total	2.9100e-003	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-004

Alpine B2B Construction - Placer-Lake Tahoe County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	1.1000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.7900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-004
Total	2.9100e-003	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

Alpine B2B Construction - Placer-Lake Tahoe County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Alpine B2B Construction - Placer-Lake Tahoe County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

Alpine B2B Construction - Placer-Lake Tahoe County, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

Alpine B2B Construction - Placer-Lake Tahoe County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

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

11.0 Vegetation

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	-99.9000	0.0000	0.0000	-99.9000

Alpine B2B Construction - Placer-Lake Tahoe County, Annual

11.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Trees	1 / 0.1	-99.9000	0.0000	0.0000	-99.9000
Total		-99.9000	0.0000	0.0000	-99.9000

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Mixed Hardwood	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

B2B Operational - Placer-Lake Tahoe County, Winter

B2B Operational
Placer-Lake Tahoe County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	8.26	1000sqft	0.19	8,260.00	0
City Park	5.50	Acre	5.50	239,580.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	14			Operational Year	2020
Utility Company	Sierra Pacific Resources				
CO2 Intensity (lb/MW hr)	716.92	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

B2B Operational - Placer-Lake Tahoe County, Winter

Project Characteristics - Sierra Resources 2010 factor used to estimate Liberty Utilities factor, who acquired Sierra Pacific and is set to meet 33% RPS by 2020

Land Use - park represents land use and parking structure represented buildings

Construction Phase - run used for operations only

Off-road Equipment - run used for operations only

Trips and VMT - run used for operations only

Vehicle Trips - All trips are assumed to be primary originating from homes and traveling to squaw/alpine consistent with traffic analysis assumptions. VMT based on traffic analysis.

Consumer Products - no new parking, residential, or fertilizers

Area Coating - no parking

Landscape Equipment - no landscape equipment

Energy Use - KWH/yr based on applicant-provided daily energy use of 7164 kwh for 10 hour days and 100 hours of maintenance activity during off-season. Assumed operation of 10 hours every day for a 4 month ski season- see appendix for off-model calcs

Water And Wastewater - no water use associated with gondola operations

Solid Waste - no permanant land use development

Operational Off-Road Equipment - 100 hours of maintennce during the off-season may result in use of off-highway vehocles to access gondola tower/station locations

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Parking	100	0
tblConstructionPhase	NumDays	10.00	0.00
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	T24E	3.92	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	10.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	10.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	10.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	10.00

B2B Operational - Placer-Lake Tahoe County, Winter

tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	CO2IntensityFactor	1328.16	716.92
tblSolidWaste	SolidWasteGenerationRate	0.47	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	0.00	84.92
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	0.00	88.40
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	0.00	22.70
tblWater	OutdoorWaterUseRate	6,553,147.42	0.00

2.0 Emissions Summary

B2B Operational - Placer-Lake Tahoe County, Winter

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	1.3000e-004	1.0000e-005	1.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.0100e-003	3.0100e-003	1.0000e-005		3.2100e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	1.3401	9.6855	16.4359	0.0542	4.1414	0.0616	4.2029	1.1098	0.0581	1.1679		5,494.174 2	5,494.174 2	0.2452		5,500.304 5
Offroad	1.5525	17.2130	7.8876	0.0263		0.6388	0.6388		0.5877	0.5877		2,548.763 0	2,548.763 0	0.8243		2,569.371 0
Total	2.8927	26.8985	24.3249	0.0806	4.1414	0.7003	4.8417	1.1098	0.6458	1.7556		8,042.940 2	8,042.940 2	1.0695	0.0000	8,069.678 7

B2B Operational - Placer-Lake Tahoe County, Winter

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.3000e-004	1.0000e-005	1.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.0100e-003	3.0100e-003	1.0000e-005		3.2100e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	1.3401	9.6855	16.4359	0.0542	4.1414	0.0616	4.2029	1.1098	0.0581	1.1679		5,494.174 2	5,494.174 2	0.2452		5,500.304 5
Offroad	1.5525	17.2130	7.8876	0.0263		0.6388	0.6388		0.5877	0.5877		2,548.763 0	2,548.763 0	0.8243		2,569.371 0
Total	2.8927	26.8985	24.3249	0.0806	4.1414	0.7003	4.8417	1.1098	0.6458	1.7556		8,042.940 2	8,042.940 2	1.0695	0.0000	8,069.678 7

	ROG	NOx	CO	SO2	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	3/27/2018	3/26/2018	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

B2B Operational - Placer-Lake Tahoe County, Winter

3.2 Site Preparation - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

B2B Operational - Placer-Lake Tahoe County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3401	9.6855	16.4359	0.0542	4.1414	0.0616	4.2029	1.1098	0.0581	1.1679		5,494.174 2	5,494.174 2	0.2452		5,500.304 5
Unmitigated	1.3401	9.6855	16.4359	0.0542	4.1414	0.0616	4.2029	1.1098	0.0581	1.1679		5,494.174 2	5,494.174 2	0.2452		5,500.304 5

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Enclosed Parking Structure	187.50	701.44	730.18	899,323	899,323
Total	187.50	701.44	730.18	899,323	899,323

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	0.00	7.30	0.00	0.00	0.00	0.00	0	0	0
Enclosed Parking Structure	0.00	7.30	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.489257	0.041257	0.220156	0.132626	0.025790	0.006586	0.027831	0.045583	0.001467	0.001229	0.006102	0.000783	0.001333
Enclosed Parking Structure	0.489257	0.041257	0.220156	0.132626	0.025790	0.006586	0.027831	0.045583	0.001467	0.001229	0.006102	0.000783	0.001333

B2B Operational - Placer-Lake Tahoe County, Winter

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

B2B Operational - Placer-Lake Tahoe County, Winter

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

B2B Operational - Placer-Lake Tahoe County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	1.3000e-004	1.0000e-005	1.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.0100e-003	3.0100e-003	1.0000e-005		3.2100e-003
Unmitigated	1.3000e-004	1.0000e-005	1.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.0100e-003	3.0100e-003	1.0000e-005		3.2100e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3000e-004	1.0000e-005	1.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.0100e-003	3.0100e-003	1.0000e-005		3.2100e-003
Total	1.3000e-004	1.0000e-005	1.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.0100e-003	3.0100e-003	1.0000e-005		3.2100e-003

B2B Operational - Placer-Lake Tahoe County, Winter

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3000e-004	1.0000e-005	1.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.0100e-003	3.0100e-003	1.0000e-005		3.2100e-003
Total	1.3000e-004	1.0000e-005	1.4100e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		3.0100e-003	3.0100e-003	1.0000e-005		3.2100e-003

7.0 Water Detail

7.1 Mitigation Measures Water

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
Crawler Tractors	1	10.00	10	212	0.43	Diesel
Off-Highway Trucks	1	10.00	10	402	0.38	Diesel

B2B Operational - Placer-Lake Tahoe County, Winter

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Crawler Tractors	0.7236	9.3096	3.1250	9.8100e-003		0.3508	0.3508		0.3227	0.3227		950.4855	950.4855	0.3074		958.1707
Off-Highway Trucks	0.8289	7.9034	4.7626	0.0165		0.2880	0.2880		0.2649	0.2649		1,598.2775	1,598.2775	0.5169		1,611.2004
Total	1.5525	17.2130	7.8876	0.0263		0.6388	0.6388		0.5877	0.5877		2,548.7630	2,548.7630	0.8243		2,569.3710

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
----------------	--------

11.0 Vegetation

B2B Operational - Placer-Lake Tahoe County, Annual

B2B Operational
Placer-Lake Tahoe County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	8.26	1000sqft	0.19	8,260.00	0
City Park	5.50	Acre	5.50	239,580.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	14			Operational Year	2020
Utility Company	Sierra Pacific Resources				
CO2 Intensity (lb/MW hr)	716.92	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

B2B Operational - Placer-Lake Tahoe County, Annual

Project Characteristics - Sierra Resources 2010 factor used to estimate Liberty Utilities factor, who acquired Sierra Pacific and is set to meet 33% RPS by 2020

Land Use - park represents land use and parking structure represented buildings

Construction Phase - run used for operations only

Off-road Equipment - run used for operations only

Trips and VMT - run used for operations only

Vehicle Trips - All trips are assumed to be primary originating from homes and traveling to squaw/alpine consistent with traffic analysis assumptions. VMT based on traffic analysis.

Consumer Products - no new parking, residential, or fertilizers

Area Coating - no parking

Landscape Equipment - no landscape equipment

Energy Use - KWH/yr based on applicant-provided daily energy use of 7164 kwh for 10 hour days and 100 hours of maintenance activity during off-season. Assumed operation of 10 hours every day for a 4 month ski season- see appendix for off-model calcs

Water And Wastewater - no water use associated with gondola operations

Solid Waste - no permanant land use development

Operational Off-Road Equipment - 100 hours of maintennce during the off-season may result in use of off-highway vehocles to access gondola tower/station locations

Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_EF_Parking	100	0
tblConstructionPhase	NumDays	10.00	0.00
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	T24E	3.92	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	10.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	10.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	10.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	10.00

B2B Operational - Placer-Lake Tahoe County, Annual

tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	1.00
tblProjectCharacteristics	CO2IntensityFactor	1328.16	716.92
tblSolidWaste	SolidWasteGenerationRate	0.47	0.00
tblVehicleTrips	CC_TTP	48.00	0.00
tblVehicleTrips	CC_TTP	0.00	100.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TL	7.30	0.00
tblVehicleTrips	CNW_TTP	19.00	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TL	9.50	0.00
tblVehicleTrips	CW_TTP	33.00	0.00
tblVehicleTrips	DV_TP	28.00	0.00
tblVehicleTrips	PB_TP	6.00	0.00
tblVehicleTrips	PR_TP	66.00	0.00
tblVehicleTrips	PR_TP	0.00	100.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	ST_TR	0.00	84.92
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	SU_TR	0.00	88.40
tblVehicleTrips	WD_TR	1.89	0.00
tblVehicleTrips	WD_TR	0.00	22.70
tblWater	OutdoorWaterUseRate	6,553,147.42	0.00

2.0 Emissions Summary

B2B Operational - Placer-Lake Tahoe County, Annual

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0000e-005	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.1160	0.8070	1.3287	4.6700e-003	0.3343	5.1400e-003	0.3394	0.0899	4.8500e-003	0.0948	0.0000	429.4976	429.4976	0.0181	0.0000	429.9499
Offroad	7.7600e-003	0.0861	0.0394	1.3000e-004		3.1900e-003	3.1900e-003		2.9400e-003	2.9400e-003	0.0000	11.5610	11.5610	3.7400e-003	0.0000	11.6545
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1238	0.8931	1.3683	4.8000e-003	0.3343	8.3300e-003	0.3426	0.0899	7.7900e-003	0.0977	0.0000	441.0588	441.0588	0.0218	0.0000	441.6047

B2B Operational - Placer-Lake Tahoe County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0000e-005	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.1160	0.8070	1.3287	4.6700e-003	0.3343	5.1400e-003	0.3394	0.0899	4.8500e-003	0.0948	0.0000	429.4976	429.4976	0.0181	0.0000	429.9499
Offroad	7.7600e-003	0.0861	0.0394	1.3000e-004		3.1900e-003	3.1900e-003		2.9400e-003	2.9400e-003	0.0000	11.5610	11.5610	3.7400e-003	0.0000	11.6545
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.1238	0.8931	1.3683	4.8000e-003	0.3343	8.3300e-003	0.3426	0.0899	7.7900e-003	0.0977	0.0000	441.0588	441.0588	0.0218	0.0000	441.6047

	ROG	NOx	CO	SO2	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	3/27/2018	3/26/2018	5	0	

B2B Operational - Placer-Lake Tahoe County, Annual

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.19

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
Site Preparation	Rubber Tired Dozers	0	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

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
Site Preparation	0	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

B2B Operational - Placer-Lake Tahoe County, Annual

3.2 Site Preparation - 2018

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

B2B Operational - Placer-Lake Tahoe County, Annual

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1160	0.8070	1.3287	4.6700e-003	0.3343	5.1400e-003	0.3394	0.0899	4.8500e-003	0.0948	0.0000	429.4976	429.4976	0.0181	0.0000	429.9499
Unmitigated	0.1160	0.8070	1.3287	4.6700e-003	0.3343	5.1400e-003	0.3394	0.0899	4.8500e-003	0.0948	0.0000	429.4976	429.4976	0.0181	0.0000	429.9499

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.00	0.00	0.00		
Enclosed Parking Structure	187.50	701.44	730.18	899,323	899,323
Total	187.50	701.44	730.18	899,323	899,323

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	0.00	7.30	0.00	0.00	0.00	0.00	0	0	0
Enclosed Parking Structure	0.00	7.30	0.00	0.00	100.00	0.00	100	0	0

4.4 Fleet Mix

B2B Operational - Placer-Lake Tahoe County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

B2B Operational - Placer-Lake Tahoe County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.0000e-005	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-004
Unmitigated	1.0000e-005	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-004
Total	1.0000e-005	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-004

B2B Operational - Placer-Lake Tahoe County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-004
Total	1.0000e-005	0.0000	1.3000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.5000e-004	2.5000e-004	0.0000	0.0000	2.6000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

B2B Operational - Placer-Lake Tahoe County, Annual

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

B2B Operational - Placer-Lake Tahoe County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Crawler Tractors	1	10.00	10	212	0.43	Diesel
Off-Highway Trucks	1	10.00	10	402	0.38	Diesel

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UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Crawler Tractors	3.6200e-003	0.0466	0.0156	5.0000e-005		1.7500e-003	1.7500e-003		1.6100e-003	1.6100e-003	0.0000	4.3113	4.3113	1.3900e-003	0.0000	4.3462
Off-Highway Trucks	4.1400e-003	0.0395	0.0238	8.0000e-005		1.4400e-003	1.4400e-003		1.3200e-003	1.3200e-003	0.0000	7.2497	7.2497	2.3400e-003	0.0000	7.3083
Total	7.7600e-003	0.0861	0.0394	1.3000e-004		3.1900e-003	3.1900e-003		2.9300e-003	2.9300e-003	0.0000	11.5610	11.5610	3.7300e-003	0.0000	11.6545

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