

Appendix E

Air Quality/Greenhouse Gas Emission Calculations

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	883.00	1000sqft	20.27	883,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	85
Climate Zone	14			Operational Year	2020
Utility Company	PacifiCorp				
CO2 Intensity (lb/MW hr)	1656.39	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 -

Construction Phase - Overall 195 day duration wo overlap per PEA

Off-road Equipment - Appx 20 pcs each phase per PEA and Proj Desc

Off-road Equipment - Appx 20 pcs each phase per PEA and Proj Desc

Off-road Equipment - Appx 20 pcs each phase per PEA and Proj Desc

Off-road Equipment - Appx 20 pcs each phase per PEA and Proj Desc

Trips and VMT - 40 mi one way per PEA and Proj Desc

Grading - 4933 cy hauled

Vehicle Trips - Negligible operational activity

Consumer Products - Negligible operational activity

Area Coating - Negligible operational activity

Energy Use - Negligible operational activity

Water And Wastewater - Negligible operational activity

Solid Waste - Negligible operational activity

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0.1
tblConstructionPhase	NumDays	35.00	87.00
tblConstructionPhase	NumDays	35.00	30.00
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	1E-09
tblEnergyUse	LightingElect	1.81	0.00
tblEnergyUse	NT24E	1.85	0.00
tblEnergyUse	NT24NG	0.31	0.00
tblEnergyUse	T24E	0.62	0.00
tblEnergyUse	T24NG	3.20	0.00

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tblGrading	AcresOfGrading	217.50	10.27
tblGrading	AcresOfGrading	75.00	10.00
tblGrading	MaterialExported	0.00	4,000.00
tblGrading	MaterialExported	0.00	933.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	1,094.92	0.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripNumber	500.00	1,071.00
tblTripsAndVMT	HaulingTripNumber	0.00	492.00
tblTripsAndVMT	HaulingTripNumber	0.00	468.00
tblTripsAndVMT	HaulingTripNumber	117.00	369.00
tblTripsAndVMT	VendorTripLength	6.60	40.00
tblTripsAndVMT	VendorTripLength	6.60	40.00
tblTripsAndVMT	VendorTripLength	6.60	40.00
tblTripsAndVMT	VendorTripLength	6.60	40.00
tblTripsAndVMT	VendorTripNumber	0.00	15.00
tblTripsAndVMT	VendorTripNumber	0.00	15.00
tblTripsAndVMT	VendorTripNumber	0.00	15.00
tblTripsAndVMT	VendorTripNumber	0.00	15.00
tblTripsAndVMT	WorkerTripLength	16.80	80.00
tblTripsAndVMT	WorkerTripLength	16.80	80.00

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tblTripsAndVMT	WorkerTripLength	16.80	80.00
tblTripsAndVMT	WorkerTripLength	16.80	80.00
tblTripsAndVMT	WorkerTripNumber	55.00	30.00
tblTripsAndVMT	WorkerTripNumber	55.00	30.00
tblTripsAndVMT	WorkerTripNumber	55.00	30.00
tblTripsAndVMT	WorkerTripNumber	55.00	30.00
tblVehicleTrips	CC_TL	6.60	80.00
tblVehicleTrips	CNW_TL	6.60	80.00
tblVehicleTrips	CW_TL	14.70	80.00
tblVehicleTrips	ST_TR	1.32	1.0000e-003
tblVehicleTrips	SU_TR	0.68	1.0000e-003
tblVehicleTrips	WD_TR	6.97	1.0000e-003
tblWater	IndoorWaterUseRate	204,193,750.00	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)
1	7-16-2018	10-15-2018	4.0947	4.0947
3	1-16-2019	4-15-2019	0.0393	0.0393
4	4-16-2019	7-15-2019	3.7826	3.7826
5	7-16-2019	9-30-2019	0.1974	0.1974
		Highest	4.0947	4.0947

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0110	8.0000e-005	8.1700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0158	0.0158	4.0000e-005	0.0000	0.0168
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	2.4300e-003	0.0236	0.0414	1.4000e-004	8.9300e-003	1.9000e-004	9.1200e-003	2.4100e-003	1.8000e-004	2.5800e-003	0.0000	13.2239	13.2239	5.3000e-004	0.0000	13.2372
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	0.0134	0.0237	0.0495	1.4000e-004	8.9300e-003	2.2000e-004	9.1500e-003	2.4100e-003	2.1000e-004	2.6100e-003	0.0000	13.2397	13.2397	5.7000e-004	0.0000	13.2540

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0110	8.0000e-005	8.1700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0158	0.0158	4.0000e-005	0.0000	0.0168
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	2.4300e-003	0.0236	0.0414	1.4000e-004	8.9300e-003	1.9000e-004	9.1200e-003	2.4100e-003	1.8000e-004	2.5800e-003	0.0000	13.2239	13.2239	5.3000e-004	0.0000	13.2372
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	0.0134	0.0237	0.0495	1.4000e-004	8.9300e-003	2.2000e-004	9.1500e-003	2.4100e-003	2.1000e-004	2.6100e-003	0.0000	13.2397	13.2397	5.7000e-004	0.0000	13.2540

	ROG	NOx	CO	SO2	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

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	4/16/2018	8/14/2018	5	87	Ph 1
2	Trenching 2-1	Trenching	8/15/2018	10/9/2018	5	40	Ph 2-1
3	Trenching 2-2	Trenching	4/15/2019	6/5/2019	5	38	Ph 2-2
4	Cleanup	Grading	6/10/2019	7/19/2019	5	30	Ph 3

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10.27

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
Grading	Air Compressors	1	8.00	78	0.48
Grading	Bore/Drill Rigs	5	8.00	221	0.50
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Other Construction Equipment	5	10.00	172	0.42
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	5	8.00	97	0.37
Trenching 2-1	Air Compressors	1	7.00	78	0.48
Trenching 2-1	Bore/Drill Rigs	5	7.00	221	0.50
Trenching 2-1	Excavators	2	7.00	158	0.38
Trenching 2-1	Other Construction Equipment	7	10.00	172	0.42

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Trenching 2-1	Sweepers/Scrubbers	2	7.00	64	0.46
Trenching 2-1	Tractors/Loaders/Backhoes	5	7.00	97	0.37
Trenching 2-2	Air Compressors	1	7.00	78	0.48
Trenching 2-2	Bore/Drill Rigs	5	7.00	221	0.50
Trenching 2-2	Excavators	2	7.00	158	0.38
Trenching 2-2	Other Construction Equipment	7	10.00	172	0.42
Trenching 2-2	Sweepers/Scrubbers	2	7.00	64	0.46
Trenching 2-2	Tractors/Loaders/Backhoes	5	7.00	97	0.37
Cleanup	Bore/Drill Rigs	5	7.00	221	0.50
Cleanup	Excavators	2	8.00	158	0.38
Cleanup	Graders	1	8.00	187	0.41
Cleanup	Other Construction Equipment	5	10.00	172	0.42
Cleanup	Rubber Tired Dozers	1	8.00	247	0.40
Cleanup	Scrapers	2	8.00	367	0.48
Cleanup	Tractors/Loaders/Backhoes	5	7.00	97	0.37
Cleanup	Welders	1	7.00	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	22	30.00	15.00	1,071.00	80.00	40.00	40.00	LD_Mix	HDT_Mix	HHDT
Trenching 2-1	22	30.00	15.00	492.00	80.00	40.00	40.00	LD_Mix	HDT_Mix	HHDT
Trenching 2-2	22	30.00	15.00	468.00	80.00	40.00	40.00	LD_Mix	HDT_Mix	HHDT
Cleanup	22	30.00	15.00	369.00	80.00	40.00	40.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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3.2 Grading - 2018

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					0.2676	0.0000	0.2676	0.1446	0.0000	0.1446	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4902	5.6085	3.5243	7.0000e-003		0.2601	0.2601		0.2400	0.2400	0.0000	637.9382	637.9382	0.1954	0.0000	642.8231
Total	0.4902	5.6085	3.5243	7.0000e-003	0.2676	0.2601	0.5277	0.1446	0.2400	0.3846	0.0000	637.9382	637.9382	0.1954	0.0000	642.8231

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.4900e-003	0.2809	0.0471	8.2000e-004	0.0179	1.7700e-003	0.0197	4.9400e-003	1.6900e-003	6.6400e-003	0.0000	77.8311	77.8311	2.4400e-003	0.0000	77.8920
Vendor	0.0219	0.3051	0.1108	8.5000e-004	0.0232	4.3400e-003	0.0275	6.7000e-003	4.1600e-003	0.0109	0.0000	80.0333	80.0333	2.5900e-003	0.0000	80.0981
Worker	0.0671	0.0620	0.5119	8.8000e-004	0.0753	7.8000e-004	0.0761	0.0200	7.2000e-004	0.0208	0.0000	78.8937	78.8937	5.1700e-003	0.0000	79.0228
Total	0.0986	0.6480	0.6698	2.5500e-003	0.1164	6.8900e-003	0.1233	0.0317	6.5700e-003	0.0383	0.0000	236.7581	236.7581	0.0102	0.0000	237.0129

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3.2 Grading - 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					0.2676	0.0000	0.2676	0.1446	0.0000	0.1446	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.4902	5.6085	3.5243	7.0000e-003		0.2601	0.2601		0.2400	0.2400	0.0000	637.9375	637.9375	0.1954	0.0000	642.8223
Total	0.4902	5.6085	3.5243	7.0000e-003	0.2676	0.2601	0.5277	0.1446	0.2400	0.3846	0.0000	637.9375	637.9375	0.1954	0.0000	642.8223

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.4900e-003	0.2809	0.0471	8.2000e-004	0.0179	1.7700e-003	0.0197	4.9400e-003	1.6900e-003	6.6400e-003	0.0000	77.8311	77.8311	2.4400e-003	0.0000	77.8920
Vendor	0.0219	0.3051	0.1108	8.5000e-004	0.0232	4.3400e-003	0.0275	6.7000e-003	4.1600e-003	0.0109	0.0000	80.0333	80.0333	2.5900e-003	0.0000	80.0981
Worker	0.0671	0.0620	0.5119	8.8000e-004	0.0753	7.8000e-004	0.0761	0.0200	7.2000e-004	0.0208	0.0000	78.8937	78.8937	5.1700e-003	0.0000	79.0228
Total	0.0986	0.6480	0.6698	2.5500e-003	0.1164	6.8900e-003	0.1233	0.0317	6.5700e-003	0.0383	0.0000	236.7581	236.7581	0.0102	0.0000	237.0129

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3.3 Trenching 2-1 - 2018

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	0.1749	1.9060	1.3436	2.5100e-003		0.0990	0.0990		0.0914	0.0914	0.0000	229.0708	229.0708	0.0700	0.0000	230.8214
Total	0.1749	1.9060	1.3436	2.5100e-003		0.0990	0.0990		0.0914	0.0914	0.0000	229.0708	229.0708	0.0700	0.0000	230.8214

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	4.3600e-003	0.1290	0.0216	3.8000e-004	8.2400e-003	8.1000e-004	9.0500e-003	2.2700e-003	7.8000e-004	3.0500e-003	0.0000	35.7544	35.7544	1.1200e-003	0.0000	35.7823
Vendor	0.0101	0.1403	0.0509	3.9000e-004	0.0107	2.0000e-003	0.0127	3.0800e-003	1.9100e-003	4.9900e-003	0.0000	36.7969	36.7969	1.1900e-003	0.0000	36.8267
Worker	0.0309	0.0285	0.2354	4.0000e-004	0.0346	3.6000e-004	0.0350	9.2200e-003	3.3000e-004	9.5500e-003	0.0000	36.2730	36.2730	2.3800e-003	0.0000	36.3323
Total	0.0453	0.2978	0.3079	1.1700e-003	0.0535	3.1700e-003	0.0567	0.0146	3.0200e-003	0.0176	0.0000	108.8242	108.8242	4.6900e-003	0.0000	108.9414

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3.3 Trenching 2-1 - 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					
Off-Road	0.1749	1.9060	1.3436	2.5100e-003		0.0990	0.0990		0.0914	0.0914	0.0000	229.0705	229.0705	0.0700	0.0000	230.8211
Total	0.1749	1.9060	1.3436	2.5100e-003		0.0990	0.0990		0.0914	0.0914	0.0000	229.0705	229.0705	0.0700	0.0000	230.8211

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	4.3600e-003	0.1290	0.0216	3.8000e-004	8.2400e-003	8.1000e-004	9.0500e-003	2.2700e-003	7.8000e-004	3.0500e-003	0.0000	35.7544	35.7544	1.1200e-003	0.0000	35.7823
Vendor	0.0101	0.1403	0.0509	3.9000e-004	0.0107	2.0000e-003	0.0127	3.0800e-003	1.9100e-003	4.9900e-003	0.0000	36.7969	36.7969	1.1900e-003	0.0000	36.8267
Worker	0.0309	0.0285	0.2354	4.0000e-004	0.0346	3.6000e-004	0.0350	9.2200e-003	3.3000e-004	9.5500e-003	0.0000	36.2730	36.2730	2.3800e-003	0.0000	36.3323
Total	0.0453	0.2978	0.3079	1.1700e-003	0.0535	3.1700e-003	0.0567	0.0146	3.0200e-003	0.0176	0.0000	108.8242	108.8242	4.6900e-003	0.0000	108.9414

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3.4 Trenching 2-2 - 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	0.1539	1.6524	1.2687	2.3900e-003		0.0850	0.0850		0.0784	0.0784	0.0000	214.1068	214.1068	0.0664	0.0000	215.7675
Total	0.1539	1.6524	1.2687	2.3900e-003		0.0850	0.0850		0.0784	0.0784	0.0000	214.1068	214.1068	0.0664	0.0000	215.7675

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.7200e-003	0.1137	0.0191	3.5000e-004	7.8400e-003	6.1000e-004	8.4500e-003	2.1600e-003	5.8000e-004	2.7400e-003	0.0000	33.6380	33.6380	1.0300e-003	0.0000	33.6637
Vendor	8.0100e-003	0.1217	0.0393	3.7000e-004	0.0101	1.5500e-003	0.0117	2.9300e-003	1.4800e-003	4.4100e-003	0.0000	34.6865	34.6865	1.0200e-003	0.0000	34.7120
Worker	0.0270	0.0240	0.1978	3.7000e-004	0.0329	3.3000e-004	0.0332	8.7500e-003	3.0000e-004	9.0600e-003	0.0000	33.4818	33.4818	2.0000e-003	0.0000	33.5317
Total	0.0387	0.2594	0.2561	1.0900e-003	0.0509	2.4900e-003	0.0533	0.0138	2.3600e-003	0.0162	0.0000	101.8062	101.8062	4.0500e-003	0.0000	101.9074

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3.4 Trenching 2-2 - 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	0.1539	1.6524	1.2687	2.3900e-003		0.0850	0.0850		0.0784	0.0784	0.0000	214.1066	214.1066	0.0664	0.0000	215.7673
Total	0.1539	1.6524	1.2687	2.3900e-003		0.0850	0.0850		0.0784	0.0784	0.0000	214.1066	214.1066	0.0664	0.0000	215.7673

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.7200e-003	0.1137	0.0191	3.5000e-004	7.8400e-003	6.1000e-004	8.4500e-003	2.1600e-003	5.8000e-004	2.7400e-003	0.0000	33.6380	33.6380	1.0300e-003	0.0000	33.6637
Vendor	8.0100e-003	0.1217	0.0393	3.7000e-004	0.0101	1.5500e-003	0.0117	2.9300e-003	1.4800e-003	4.4100e-003	0.0000	34.6865	34.6865	1.0200e-003	0.0000	34.7120
Worker	0.0270	0.0240	0.1978	3.7000e-004	0.0329	3.3000e-004	0.0332	8.7500e-003	3.0000e-004	9.0600e-003	0.0000	33.4818	33.4818	2.0000e-003	0.0000	33.5317
Total	0.0387	0.2594	0.2561	1.0900e-003	0.0509	2.4900e-003	0.0533	0.0138	2.3600e-003	0.0162	0.0000	101.8062	101.8062	4.0500e-003	0.0000	101.9074

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3.5 Cleanup - 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					0.0957	0.0000	0.0957	0.0502	0.0000	0.0502	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1520	1.6942	1.1310	2.2700e-003		0.0774	0.0774		0.0713	0.0713	0.0000	203.2269	203.2269	0.0639	0.0000	204.8252
Total	0.1520	1.6942	1.1310	2.2700e-003	0.0957	0.0774	0.1731	0.0502	0.0713	0.1215	0.0000	203.2269	203.2269	0.0639	0.0000	204.8252

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	2.9400e-003	0.0897	0.0150	2.8000e-004	6.1800e-003	4.8000e-004	6.6600e-003	1.7000e-003	4.6000e-004	2.1600e-003	0.0000	26.5222	26.5222	8.1000e-004	0.0000	26.5425
Vendor	6.3200e-003	0.0961	0.0310	2.9000e-004	7.9900e-003	1.2200e-003	9.2100e-003	2.3100e-003	1.1700e-003	3.4800e-003	0.0000	27.3841	27.3841	8.1000e-004	0.0000	27.4042
Worker	0.0213	0.0189	0.1561	2.9000e-004	0.0260	2.6000e-004	0.0262	6.9100e-003	2.4000e-004	7.1500e-003	0.0000	26.4330	26.4330	1.5800e-003	0.0000	26.4724
Total	0.0306	0.2047	0.2021	8.6000e-004	0.0401	1.9600e-003	0.0421	0.0109	1.8700e-003	0.0128	0.0000	80.3393	80.3393	3.2000e-003	0.0000	80.4192

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3.5 Cleanup - 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					0.0957	0.0000	0.0957	0.0502	0.0000	0.0502	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1520	1.6942	1.1310	2.2700e-003		0.0774	0.0774		0.0713	0.0713	0.0000	203.2267	203.2267	0.0639	0.0000	204.8249
Total	0.1520	1.6942	1.1310	2.2700e-003	0.0957	0.0774	0.1731	0.0502	0.0713	0.1215	0.0000	203.2267	203.2267	0.0639	0.0000	204.8249

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	2.9400e-003	0.0897	0.0150	2.8000e-004	6.1800e-003	4.8000e-004	6.6600e-003	1.7000e-003	4.6000e-004	2.1600e-003	0.0000	26.5222	26.5222	8.1000e-004	0.0000	26.5425
Vendor	6.3200e-003	0.0961	0.0310	2.9000e-004	7.9900e-003	1.2200e-003	9.2100e-003	2.3100e-003	1.1700e-003	3.4800e-003	0.0000	27.3841	27.3841	8.1000e-004	0.0000	27.4042
Worker	0.0213	0.0189	0.1561	2.9000e-004	0.0260	2.6000e-004	0.0262	6.9100e-003	2.4000e-004	7.1500e-003	0.0000	26.4330	26.4330	1.5800e-003	0.0000	26.4724
Total	0.0306	0.2047	0.2021	8.6000e-004	0.0401	1.9600e-003	0.0421	0.0109	1.8700e-003	0.0128	0.0000	80.3393	80.3393	3.2000e-003	0.0000	80.4192

4.0 Operational Detail - Mobile

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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	2.4300e-003	0.0236	0.0414	1.4000e-004	8.9300e-003	1.9000e-004	9.1200e-003	2.4100e-003	1.8000e-004	2.5800e-003	0.0000	13.2239	13.2239	5.3000e-004	0.0000	13.2372
Unmitigated	2.4300e-003	0.0236	0.0414	1.4000e-004	8.9300e-003	1.9000e-004	9.1200e-003	2.4100e-003	1.8000e-004	2.5800e-003	0.0000	13.2239	13.2239	5.3000e-004	0.0000	13.2372

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.88	0.88	0.88	23,978	23,978
Total	0.88	0.88	0.88	23,978	23,978

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
General Light Industry	80.00	80.00	80.00	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.480138	0.040615	0.180049	0.120387	0.037372	0.006792	0.008746	0.115531	0.001256	0.001655	0.005192	0.001016	0.001248

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	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			
General Light Industry	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

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0110	8.0000e-005	8.1700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0158	0.0158	4.0000e-005	0.0000	0.0168
Unmitigated	0.0110	8.0000e-005	8.1700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0158	0.0158	4.0000e-005	0.0000	0.0168

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	0.0102					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.7000e-004	8.0000e-005	8.1700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0158	0.0158	4.0000e-005	0.0000	0.0168
Total	0.0110	8.0000e-005	8.1700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0158	0.0158	4.0000e-005	0.0000	0.0168

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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	0.0102					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.7000e-004	8.0000e-005	8.1700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0158	0.0158	4.0000e-005	0.0000	0.0168
Total	0.0110	8.0000e-005	8.1700e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0158	0.0158	4.0000e-005	0.0000	0.0168

7.0 Water Detail

7.1 Mitigation Measures Water

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	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			
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	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

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	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			
General Light Industry	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
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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
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Siskiyou Telco - Siskiyou County, Summer

Siskiyou Telco
Siskiyou County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	883.00	1000sqft	20.27	883,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	85
Climate Zone	14			Operational Year	2020
Utility Company	PacifiCorp				
CO2 Intensity (lb/MWhr)	1656.39	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Siskiyou Telco - Siskiyou County, Summer

Project Characteristics -

Land Use -

Construction Phase - Overall 195 day duration wo overlap per PEA

Off-road Equipment - Appx 20 pcs each phase per PEA and Proj Desc

Off-road Equipment - Appx 20 pcs each phase per PEA and Proj Desc

Off-road Equipment - Appx 20 pcs each phase per PEA and Proj Desc

Off-road Equipment - Appx 20 pcs each phase per PEA and Proj Desc

Trips and VMT - 40 mi one way per PEA and Proj Desc

Grading - 4933 cy hauled

Vehicle Trips - Negligible operational activity

Consumer Products - Negligible operational activity

Area Coating - Negligible operational activity

Energy Use - Negligible operational activity

Water And Wastewater - Negligible operational activity

Solid Waste - Negligible operational activity

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0.1
tblConstructionPhase	NumDays	35.00	87.00
tblConstructionPhase	NumDays	35.00	30.00
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	1E-09
tblEnergyUse	LightingElect	1.81	0.00
tblEnergyUse	NT24E	1.85	0.00
tblEnergyUse	NT24NG	0.31	0.00
tblEnergyUse	T24E	0.62	0.00
tblEnergyUse	T24NG	3.20	0.00

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tblGrading	AcresOfGrading	217.50	10.27
tblGrading	AcresOfGrading	75.00	10.00
tblGrading	MaterialExported	0.00	4,000.00
tblGrading	MaterialExported	0.00	933.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	UsageHours	8.00	7.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblSolidWaste	SolidWasteGenerationRate	1,094.92	0.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripNumber	500.00	1,071.00
tblTripsAndVMT	HaulingTripNumber	0.00	492.00
tblTripsAndVMT	HaulingTripNumber	0.00	468.00
tblTripsAndVMT	HaulingTripNumber	117.00	369.00
tblTripsAndVMT	VendorTripLength	6.60	40.00
tblTripsAndVMT	VendorTripLength	6.60	40.00
tblTripsAndVMT	VendorTripLength	6.60	40.00
tblTripsAndVMT	VendorTripLength	6.60	40.00
tblTripsAndVMT	VendorTripNumber	0.00	15.00
tblTripsAndVMT	VendorTripNumber	0.00	15.00
tblTripsAndVMT	VendorTripNumber	0.00	15.00
tblTripsAndVMT	VendorTripNumber	0.00	15.00
tblTripsAndVMT	WorkerTripLength	16.80	80.00
tblTripsAndVMT	WorkerTripLength	16.80	80.00

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tblTripsAndVMT	WorkerTripLength	16.80	80.00
tblTripsAndVMT	WorkerTripLength	16.80	80.00
tblTripsAndVMT	WorkerTripNumber	55.00	30.00
tblTripsAndVMT	WorkerTripNumber	55.00	30.00
tblTripsAndVMT	WorkerTripNumber	55.00	30.00
tblTripsAndVMT	WorkerTripNumber	55.00	30.00
tblVehicleTrips	CC_TL	6.60	80.00
tblVehicleTrips	CNW_TL	6.60	80.00
tblVehicleTrips	CW_TL	14.70	80.00
tblVehicleTrips	ST_TR	1.32	1.0000e-003
tblVehicleTrips	SU_TR	0.68	1.0000e-003
tblVehicleTrips	WD_TR	6.97	1.0000e-003
tblWater	IndoorWaterUseRate	204,193,750.00	0.00

2.0 Emissions Summary

Siskiyou Telco - Siskiyou 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	0.0646	8.4000e-004	0.0907	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1933	0.1933	5.2000e-004		0.2062
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	0.0134	0.1229	0.2287	8.1000e-004	0.0516	1.0400e-003	0.0526	0.0138	9.8000e-004	0.0148		82.0895	82.0895	3.2600e-003		82.1710
Total	0.0780	0.1238	0.3194	8.2000e-004	0.0516	1.3700e-003	0.0530	0.0138	1.3100e-003	0.0152		82.2828	82.2828	3.7800e-003	0.0000	82.3772

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	0.0646	8.4000e-004	0.0907	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1933	0.1933	5.2000e-004		0.2062
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	0.0134	0.1229	0.2287	8.1000e-004	0.0516	1.0400e-003	0.0526	0.0138	9.8000e-004	0.0148		82.0895	82.0895	3.2600e-003		82.1710
Total	0.0780	0.1238	0.3194	8.2000e-004	0.0516	1.3700e-003	0.0530	0.0138	1.3100e-003	0.0152		82.2828	82.2828	3.7800e-003	0.0000	82.3772

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	4/16/2018	8/14/2018	5	87	Ph 1
2	Trenching 2-1	Trenching	8/15/2018	10/9/2018	5	40	Ph 2-1
3	Trenching 2-2	Trenching	4/15/2019	6/5/2019	5	38	Ph 2-2
4	Cleanup	Grading	6/10/2019	7/19/2019	5	30	Ph 3

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10.27

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
Grading	Air Compressors	1	8.00	78	0.48
Grading	Bore/Drill Rigs	5	8.00	221	0.50
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Other Construction Equipment	5	10.00	172	0.42
Grading	Rubber Tired Dozers	1	8.00	247	0.40

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Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	5	8.00	97	0.37
Trenching 2-1	Air Compressors	1	7.00	78	0.48
Trenching 2-1	Bore/Drill Rigs	5	7.00	221	0.50
Trenching 2-1	Excavators	2	7.00	158	0.38
Trenching 2-1	Other Construction Equipment	7	10.00	172	0.42
Trenching 2-1	Sweepers/Scrubbers	2	7.00	64	0.46
Trenching 2-1	Tractors/Loaders/Backhoes	5	7.00	97	0.37
Trenching 2-2	Air Compressors	1	7.00	78	0.48
Trenching 2-2	Bore/Drill Rigs	5	7.00	221	0.50
Trenching 2-2	Excavators	2	7.00	158	0.38
Trenching 2-2	Other Construction Equipment	7	10.00	172	0.42
Trenching 2-2	Sweepers/Scrubbers	2	7.00	64	0.46
Trenching 2-2	Tractors/Loaders/Backhoes	5	7.00	97	0.37
Cleanup	Bore/Drill Rigs	5	7.00	221	0.50
Cleanup	Excavators	2	8.00	158	0.38
Cleanup	Graders	1	8.00	187	0.41
Cleanup	Other Construction Equipment	5	10.00	172	0.42
Cleanup	Rubber Tired Dozers	1	8.00	247	0.40
Cleanup	Scrapers	2	8.00	367	0.48
Cleanup	Tractors/Loaders/Backhoes	5	7.00	97	0.37
Cleanup	Welders	1	7.00	46	0.45

Trips and VMT

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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	22	30.00	15.00	1,071.00	80.00	40.00	40.00	LD_Mix	HDT_Mix	HHDT
Trenching 2-1	22	30.00	15.00	492.00	80.00	40.00	40.00	LD_Mix	HDT_Mix	HHDT
Trenching 2-2	22	30.00	15.00	468.00	80.00	40.00	40.00	LD_Mix	HDT_Mix	HHDT
Cleanup	22	30.00	15.00	369.00	80.00	40.00	40.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.1525	0.0000	6.1525	3.3245	0.0000	3.3245			0.0000			0.0000
Off-Road	11.2680	128.9303	81.0175	0.1609		5.9785	5.9785		5.5163	5.5163		16,165.6667	16,165.6667	4.9514		16,289.4523
Total	11.2680	128.9303	81.0175	0.1609	6.1525	5.9785	12.1310	3.3245	5.5163	8.8408		16,165.6667	16,165.6667	4.9514		16,289.4523

Siskiyou Telco - Siskiyou County, Summer

3.2 Grading - 2018

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	0.2155	6.3446	1.0341	0.0190	0.4314	0.0405	0.4718	0.1183	0.0387	0.1570		1,985.6568	1,985.6568	0.0585		1,987.1194
Vendor	0.4939	6.8235	2.4574	0.0195	0.5555	0.0997	0.6552	0.1598	0.0954	0.2551		2,036.3561	2,036.3561	0.0644		2,037.9652
Worker	1.4132	1.1891	11.8450	0.0209	1.8236	0.0180	1.8416	0.4835	0.0166	0.5000		2,078.2230	2,078.2230	0.1340		2,081.5731
Total	2.1227	14.3572	15.3365	0.0594	2.8105	0.1581	2.9686	0.7615	0.1507	0.9122		6,100.2359	6,100.2359	0.2569		6,106.6577

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					6.1525	0.0000	6.1525	3.3245	0.0000	3.3245			0.0000			0.0000
Off-Road	11.2680	128.9303	81.0175	0.1609		5.9785	5.9785		5.5163	5.5163	0.0000	16,165.6667	16,165.6667	4.9514		16,289.4523
Total	11.2680	128.9303	81.0175	0.1609	6.1525	5.9785	12.1310	3.3245	5.5163	8.8408	0.0000	16,165.6667	16,165.6667	4.9514		16,289.4523

Siskiyou Telco - Siskiyou County, Summer

3.2 Grading - 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	0.2155	6.3446	1.0341	0.0190	0.4314	0.0405	0.4718	0.1183	0.0387	0.1570		1,985.6568	1,985.6568	0.0585		1,987.1194
Vendor	0.4939	6.8235	2.4574	0.0195	0.5555	0.0997	0.6552	0.1598	0.0954	0.2551		2,036.3561	2,036.3561	0.0644		2,037.9652
Worker	1.4132	1.1891	11.8450	0.0209	1.8236	0.0180	1.8416	0.4835	0.0166	0.5000		2,078.2230	2,078.2230	0.1340		2,081.5731
Total	2.1227	14.3572	15.3365	0.0594	2.8105	0.1581	2.9686	0.7615	0.1507	0.9122		6,100.2359	6,100.2359	0.2569		6,106.6577

3.3 Trenching 2-1 - 2018

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	8.7466	95.2979	67.1793	0.1257		4.9506	4.9506		4.5686	4.5686		12,625.3639	12,625.3639	3.8594		12,721.8496
Total	8.7466	95.2979	67.1793	0.1257		4.9506	4.9506		4.5686	4.5686		12,625.3639	12,625.3639	3.8594		12,721.8496

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3.3 Trenching 2-1 - 2018

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	0.2154	6.3393	1.0332	0.0189	0.4310	0.0404	0.4714	0.1182	0.0387	0.1569		1,983.988 2	1,983.988 2	0.0585		1,985.449 5
Vendor	0.4939	6.8235	2.4574	0.0195	0.5555	0.0997	0.6552	0.1598	0.0954	0.2551		2,036.356 1	2,036.356 1	0.0644		2,037.965 2
Worker	1.4132	1.1891	11.8450	0.0209	1.8236	0.0180	1.8416	0.4835	0.0166	0.5000		2,078.223 0	2,078.223 0	0.1340		2,081.573 1
Total	2.1225	14.3519	15.3356	0.0594	2.8101	0.1581	2.9682	0.7614	0.1506	0.9121		6,098.567 3	6,098.567 3	0.2568		6,104.987 8

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	8.7466	95.2979	67.1793	0.1257		4.9506	4.9506		4.5686	4.5686	0.0000	12,625.36 39	12,625.36 39	3.8594		12,721.84 96
Total	8.7466	95.2979	67.1793	0.1257		4.9506	4.9506		4.5686	4.5686	0.0000	12,625.36 39	12,625.36 39	3.8594		12,721.84 96

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3.3 Trenching 2-1 - 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	0.2154	6.3393	1.0332	0.0189	0.4310	0.0404	0.4714	0.1182	0.0387	0.1569		1,983.988 2	1,983.988 2	0.0585		1,985.449 5
Vendor	0.4939	6.8235	2.4574	0.0195	0.5555	0.0997	0.6552	0.1598	0.0954	0.2551		2,036.356 1	2,036.356 1	0.0644		2,037.965 2
Worker	1.4132	1.1891	11.8450	0.0209	1.8236	0.0180	1.8416	0.4835	0.0166	0.5000		2,078.223 0	2,078.223 0	0.1340		2,081.573 1
Total	2.1225	14.3519	15.3356	0.0594	2.8101	0.1581	2.9682	0.7614	0.1506	0.9121		6,098.567 3	6,098.567 3	0.2568		6,104.987 8

3.4 Trenching 2-2 - 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	8.1012	86.9704	66.7718	0.1256		4.4719	4.4719		4.1261	4.1261		12,421.70 34	12,421.70 34	3.8539		12,518.05 19
Total	8.1012	86.9704	66.7718	0.1256		4.4719	4.4719		4.1261	4.1261		12,421.70 34	12,421.70 34	3.8539		12,518.05 19

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3.4 Trenching 2-2 - 2019

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	0.1937	5.8846	0.9588	0.0188	0.4316	0.0317	0.4633	0.1184	0.0304	0.1487		1,965.077 1	1,965.077 1	0.0566		1,966.491 2
Vendor	0.4138	6.2364	2.0157	0.0194	0.5555	0.0813	0.6368	0.1598	0.0777	0.2375		2,020.747 6	2,020.747 6	0.0580		2,022.196 9
Worker	1.3010	1.0517	10.5322	0.0203	1.8236	0.0172	1.8408	0.4835	0.0159	0.4993		2,019.446 5	2,019.446 5	0.1188		2,022.417 5
Total	1.9085	13.1727	13.5067	0.0585	2.8107	0.1302	2.9408	0.7616	0.1240	0.8856		6,005.271 1	6,005.271 1	0.2334		6,011.105 6

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	8.1012	86.9704	66.7718	0.1256		4.4719	4.4719		4.1261	4.1261	0.0000	12,421.70 34	12,421.70 34	3.8539		12,518.05 19
Total	8.1012	86.9704	66.7718	0.1256		4.4719	4.4719		4.1261	4.1261	0.0000	12,421.70 34	12,421.70 34	3.8539		12,518.05 19

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3.4 Trenching 2-2 - 2019

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	0.1937	5.8846	0.9588	0.0188	0.4316	0.0317	0.4633	0.1184	0.0304	0.1487		1,965.077 1	1,965.077 1	0.0566		1,966.491 2
Vendor	0.4138	6.2364	2.0157	0.0194	0.5555	0.0813	0.6368	0.1598	0.0777	0.2375		2,020.747 6	2,020.747 6	0.0580		2,022.196 9
Worker	1.3010	1.0517	10.5322	0.0203	1.8236	0.0172	1.8408	0.4835	0.0159	0.4993		2,019.446 5	2,019.446 5	0.1188		2,022.417 5
Total	1.9085	13.1727	13.5067	0.0585	2.8107	0.1302	2.9408	0.7616	0.1240	0.8856		6,005.271 1	6,005.271 1	0.2334		6,011.105 6

3.5 Cleanup - 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					6.3791	0.0000	6.3791	3.3489	0.0000	3.3489			0.0000			0.0000
Off-Road	10.1325	112.9454	75.3992	0.1513		5.1576	5.1576		4.7520	4.7520		14,934.62 06	14,934.62 06	4.6981		15,052.07 22
Total	10.1325	112.9454	75.3992	0.1513	6.3791	5.1576	11.5367	3.3489	4.7520	8.1009		14,934.62 06	14,934.62 06	4.6981		15,052.07 22

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3.5 Cleanup - 2019

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	0.1934	5.8770	0.9576	0.0187	0.4310	0.0317	0.4627	0.1182	0.0303	0.1485		1,962.5577	1,962.5577	0.0565		1,963.9701
Vendor	0.4138	6.2364	2.0157	0.0194	0.5555	0.0813	0.6368	0.1598	0.0777	0.2375		2,020.7476	2,020.7476	0.0580		2,022.1969
Worker	1.3010	1.0517	10.5322	0.0203	1.8236	0.0172	1.8408	0.4835	0.0159	0.4993		2,019.4465	2,019.4465	0.1188		2,022.4175
Total	1.9082	13.1652	13.5055	0.0584	2.8101	0.1302	2.9403	0.7615	0.1239	0.8854		6,002.7517	6,002.7517	0.2333		6,008.5844

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					6.3791	0.0000	6.3791	3.3489	0.0000	3.3489			0.0000			0.0000
Off-Road	10.1325	112.9454	75.3992	0.1513		5.1576	5.1576		4.7520	4.7520	0.0000	14,934.6205	14,934.6205	4.6981		15,052.0722
Total	10.1325	112.9454	75.3992	0.1513	6.3791	5.1576	11.5367	3.3489	4.7520	8.1009	0.0000	14,934.6205	14,934.6205	4.6981		15,052.0722

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3.5 Cleanup - 2019

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	0.1934	5.8770	0.9576	0.0187	0.4310	0.0317	0.4627	0.1182	0.0303	0.1485		1,962.5577	1,962.5577	0.0565		1,963.9701
Vendor	0.4138	6.2364	2.0157	0.0194	0.5555	0.0813	0.6368	0.1598	0.0777	0.2375		2,020.7476	2,020.7476	0.0580		2,022.1969
Worker	1.3010	1.0517	10.5322	0.0203	1.8236	0.0172	1.8408	0.4835	0.0159	0.4993		2,019.4465	2,019.4465	0.1188		2,022.4175
Total	1.9082	13.1652	13.5055	0.0584	2.8101	0.1302	2.9403	0.7615	0.1239	0.8854		6,002.7517	6,002.7517	0.2333		6,008.5844

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Siskiyou Telco - Siskiyou 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	0.0134	0.1229	0.2287	8.1000e-004	0.0516	1.0400e-003	0.0526	0.0138	9.8000e-004	0.0148		82.0895	82.0895	3.2600e-003		82.1710
Unmitigated	0.0134	0.1229	0.2287	8.1000e-004	0.0516	1.0400e-003	0.0526	0.0138	9.8000e-004	0.0148		82.0895	82.0895	3.2600e-003		82.1710

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	0.88	0.88	0.88	23,978	23,978
Total	0.88	0.88	0.88	23,978	23,978

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
General Light Industry	80.00	80.00	80.00	59.00	28.00	13.00	92	5	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.480138	0.040615	0.180049	0.120387	0.037372	0.006792	0.008746	0.115531	0.001256	0.001655	0.005192	0.001016	0.001248

5.0 Energy Detail

Historical Energy Use: N

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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

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					
General Light Industry	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

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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					
General Light Industry	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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.0646	8.4000e-004	0.0907	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1933	0.1933	5.2000e-004		0.2062
Unmitigated	0.0646	8.4000e-004	0.0907	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1933	0.1933	5.2000e-004		0.2062

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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	0.0561					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.5400e-003	8.4000e-004	0.0907	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1933	0.1933	5.2000e-004		0.2062
Total	0.0646	8.4000e-004	0.0907	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1933	0.1933	5.2000e-004		0.2062

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	0.0561					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.5400e-003	8.4000e-004	0.0907	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1933	0.1933	5.2000e-004		0.2062
Total	0.0646	8.4000e-004	0.0907	1.0000e-005		3.3000e-004	3.3000e-004		3.3000e-004	3.3000e-004		0.1933	0.1933	5.2000e-004		0.2062

7.0 Water Detail

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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

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
