

Appendix 3.6-A
**Vegetation Management Equipment List
and CalEEMod Output Files**

Vegetation Management Equipment List

	Approximate Start Date/Finish Date	No. of Work Days	Area Disturbed	Equipment Type	No. of Equipment	Hours Equipment Operated Per Day	Miles to commute
Phase I OWA Invasive Species Removal							
Mechanical Weed Treatments							
	2016-2019	120	200 acres	Passenger vehicles used by CCCs to get to site	2	1.5	60
	2016-2019	120		Passenger vehicles used by River Partners (trucks/cars) to get to site	3	2	140
Phase II OWA Woodland Planting							
Site Preparation							
	2017	20	150 acres				
	2017	20		Passenger vehicles used by River Partners (trucks/cars) to get to site	4	2	140
	2017	36		Passenger vehicles used by CCCs to get to site	2	1.5	60
Irrigation System Installation							
<i>(Trench mainline, trench laterals, layout pipe and irrigation hose)</i>	2017	15		Tractors	2	7	
	2017	10	15	Trenchers	2	7.5	
	2017	20		Fork lift	1	3.5	
	2017	20		Passenger vehicles used by River Partners (trucks/cars) to get to site	4	3	140
	2017	20		Passenger vehicles used by CCCs to get to site	2	1.5	60
Plantings							
<i>(Label fields for planting, deliver plants to site, plant potted stock, collect and plant cuttings, plant native grasses, replant)</i>	2017	20	150 acres	Tractors	4	7	
	2017	20		Passenger vehicles used by River Partners (trucks/cars) to get to site	4	3	140
	2017	20		Passenger vehicles used by CCCs to get to site	2	1.5	60
	2017	5		Delivery trucks for potted stock	1	2	80
	2017	20		Fork lift	1	3.5	
	2018	3		Passenger vehicles used by River Partners (trucks/cars) to get to site	2	2	120
	2018	3		Tractors	1	7	
	2018	3		Passenger vehicles used by River Partners (trucks/cars) to get to site	4	3	140
	2018	3		Passenger vehicles used by River Partners (trucks/cars) to get to site	1	1.5	60
	2018	3		Tractors	2	7	
	2018	1		Delivery trucks for potted stock	1	2	80
	2018	3		Passenger vehicles used by River Partners (trucks/cars) to get to site	3	2	75
	2018	3		Passenger vehicles used by CCCs to get to site	2	1.5	60

Oroville Wildlife Area Butte County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Recreational	0.00	User Defined Unit	500.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	71
Climate Zone	3			Operational Year	2019
Utility Company	Pacific Gas & Electric Company				
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

Project Characteristics -

Land Use - From OWA AQ Modeling Assumptions spreadsheet

Construction Phase - Per OWA Air Quality Modeling Assumptions spreadsheet

Off-road Equipment - Passenger vehicles only

Off-road Equipment - Per OWA Modeling Assumptions

Off-road Equipment - Per OWA modeling assumptions

Off-road Equipment - Passenger vehicles only

Trips and VMT - Weighted average of worker trip lengths; delivery trucks for potted stock captured in vendor trips

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	7,750.00	20.00
tblConstructionPhase	NumDays	300.00	120.00

tblConstructionPhase	NumDays	300.00	36.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	7/12/2017	7/17/2017
tblConstructionPhase	PhaseEndDate	10/13/2017	5/26/2017
tblConstructionPhase	PhaseStartDate	6/20/2017	6/24/2017
tblConstructionPhase	PhaseStartDate	9/2/2017	4/15/2017
tblLandUse	LotAcreage	0.00	500.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	3.50
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2019
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	VendorTripLength	10.52	40.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

tblTripsAndVMT	WorkerTripLength	12.54	54.00
tblTripsAndVMT	WorkerTripLength	12.54	56.67
tblTripsAndVMT	WorkerTripLength	12.54	56.67
tblTripsAndVMT	WorkerTripLength	12.54	56.67
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	12.00
tblTripsAndVMT	WorkerTripNumber	13.00	12.00
tblTripsAndVMT	WorkerTripNumber	0.00	12.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.0399	0.2986	0.4403	7.7000e-004	0.0431	0.0207	0.0638	0.0115	0.0191	0.0305	0.0000	60.3259	60.3259	8.9100e-003	0.0000	60.5131
Total	0.0399	0.2986	0.4403	7.7000e-004	0.0431	0.0207	0.0638	0.0115	0.0191	0.0305	0.0000	60.3259	60.3259	8.9100e-003	0.0000	60.5131

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.0399	0.2986	0.4403	7.7000e-004	0.0431	0.0207	0.0638	0.0115	0.0191	0.0305	0.0000	60.3259	60.3259	8.9100e-003	0.0000	60.5130

Total	0.0399	0.2986	0.4403	7.7000e-004	0.0431	0.0207	0.0638	0.0115	0.0191	0.0305	0.0000	60.3259	60.3259	8.9100e-003	0.0000	60.5130
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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

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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000	0.0000	0.0000	0.0000	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 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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	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	Mechanical Weed Treatments	Site Preparation	4/15/2017	9/1/2017	6	120	
2	WP Site Prep	Site Preparation	4/15/2017	5/26/2017	6	36	
3	WP Irrigation System Installation	Trenching	5/27/2017	6/19/2017	6	20	
4	WP Plantings	Building Construction	6/24/2017	7/17/2017	6	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Mechanical Weed Treatments	Concrete/Industrial Saws	0	0.00	81	0.73

Mechanical Weed Treatments	Excavators	0	0.00	162	0.38
Mechanical Weed Treatments	Rubber Tired Dozers	0	0.00	255	0.40
Mechanical Weed Treatments	Tractors/Loaders/Backhoes	0	0.00	97	0.37
WP Site Prep	Rubber Tired Dozers	0	0.00	255	0.40
WP Site Prep	Tractors/Loaders/Backhoes	0	0.00	97	0.37
WP Irrigation System Installation	Excavators	0	0.00	162	0.38
WP Irrigation System Installation	Forklifts	1	3.50	89	0.20
WP Irrigation System Installation	Graders	0	0.00	174	0.41
WP Irrigation System Installation	Rubber Tired Dozers	0	0.00	255	0.40
WP Irrigation System Installation	Scrapers	0	0.00	361	0.48
WP Irrigation System Installation	Tractors/Loaders/Backhoes	2	7.00	97	0.37
WP Irrigation System Installation	Trenchers	2	7.50	80	0.50
WP Plantings	Cranes	0	0.00	226	0.29
WP Plantings	Forklifts	1	3.50	89	0.20
WP Plantings	Generator Sets	0	0.00	84	0.74
WP Plantings	Tractors/Loaders/Backhoes	4	7.00	97	0.37
WP Plantings	Welders	0	0.00	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
Mechanical Weed Treatments	0	10.00	0.00	0.00	54.00	10.52	20.00	LD_Mix	HDT_Mix	HHDT
WP Site Prep	0	12.00	0.00	0.00	56.67	10.52	20.00	LD_Mix	HDT_Mix	HHDT
WP Irrigation System Installation	5	12.00	0.00	0.00	56.67	10.52	20.00	LD_Mix	HDT_Mix	HHDT
WP Plantings	5	12.00	2.00	0.00	56.67	40.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Mechanical Weed Treatments - 2017

Unmitigated Construction On-Site

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
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	6.0500e-003	0.0152	0.1374	2.8000e-004	0.0236	1.8000e-004	0.0238	6.2700e-003	1.7000e-004	6.4400e-003	0.0000	19.8864	19.8864	1.1300e-003	0.0000	19.9101
Total	6.0500e-003	0.0152	0.1374	2.8000e-004	0.0236	1.8000e-004	0.0238	6.2700e-003	1.7000e-004	6.4400e-003	0.0000	19.8864	19.8864	1.1300e-003	0.0000	19.9101

3.3 WP Site Prep - 2017

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					0.0000	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
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

Unmitigated Construction Off-Site

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	2.2600e-003	5.7200e-003	0.0518	1.1000e-004	8.9100e-003	7.0000e-005	8.9800e-003	2.3700e-003	6.0000e-005	2.4300e-003	0.0000	7.5110	7.5110	4.3000e-004	0.0000	7.5199
Total	2.2600e-003	5.7200e-003	0.0518	1.1000e-004	8.9100e-003	7.0000e-005	8.9800e-003	2.3700e-003	6.0000e-005	2.4300e-003	0.0000	7.5110	7.5110	4.3000e-004	0.0000	7.5199

3.4 WP Irrigation System Installation - 2017

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	0.0165	0.1496	0.0999	1.3000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	11.6968	11.6968	3.5800e-003	0.0000	11.7720
Total	0.0165	0.1496	0.0999	1.3000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	11.6968	11.6968	3.5800e-003	0.0000	11.7720

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2500e-003	3.1800e-003	0.0288	6.0000e-005	4.9500e-003	4.0000e-005	4.9900e-003	1.3200e-003	4.0000e-005	1.3500e-003	0.0000	4.1728	4.1728	2.4000e-004	0.0000	4.1777
Total	1.2500e-003	3.1800e-003	0.0288	6.0000e-005	4.9500e-003	4.0000e-005	4.9900e-003	1.3200e-003	4.0000e-005	1.3500e-003	0.0000	4.1728	4.1728	2.4000e-004	0.0000	4.1777

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	0.0165	0.1496	0.0999	1.3000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	11.6967	11.6967	3.5800e-003	0.0000	11.7720
Total	0.0165	0.1496	0.0999	1.3000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	11.6967	11.6967	3.5800e-003	0.0000	11.7720

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2500e-003	3.1800e-003	0.0288	6.0000e-005	4.9500e-003	4.0000e-005	4.9900e-003	1.3200e-003	4.0000e-005	1.3500e-003	0.0000	4.1728	4.1728	2.4000e-004	0.0000	4.1777
Total	1.2500e-003	3.1800e-003	0.0288	6.0000e-005	4.9500e-003	4.0000e-005	4.9900e-003	1.3200e-003	4.0000e-005	1.3500e-003	0.0000	4.1728	4.1728	2.4000e-004	0.0000	4.1777

3.5 WP Plantings - 2017

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	0.0120	0.1145	0.0893	1.2000e-004		8.6700e-003	8.6700e-003		7.9800e-003	7.9800e-003	0.0000	10.7255	10.7255	3.2900e-003	0.0000	10.7946
Total	0.0120	0.1145	0.0893	1.2000e-004		8.6700e-003	8.6700e-003		7.9800e-003	7.9800e-003	0.0000	10.7255	10.7255	3.2900e-003	0.0000	10.7946

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	5.0000e-004	7.2600e-003	4.4400e-003	2.0000e-005	7.0000e-004	1.3000e-004	8.3000e-004	2.0000e-004	1.2000e-004	3.2000e-004	0.0000	2.1606	2.1606	1.0000e-005	0.0000	2.1609
Worker	1.2500e-003	3.1800e-003	0.0288	6.0000e-005	4.9500e-003	4.0000e-005	4.9900e-003	1.3200e-003	4.0000e-005	1.3500e-003	0.0000	4.1728	4.1728	2.4000e-004	0.0000	4.1777
Total	1.7500e-003	0.0104	0.0332	8.0000e-005	5.6500e-003	1.7000e-004	5.8200e-003	1.5200e-003	1.6000e-004	1.6700e-003	0.0000	6.3334	6.3334	2.5000e-004	0.0000	6.3387

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	0.0120	0.1145	0.0893	1.2000e-004		8.6700e-003	8.6700e-003		7.9800e-003	7.9800e-003	0.0000	10.7255	10.7255	3.2900e-003	0.0000	10.7945
Total	0.0120	0.1145	0.0893	1.2000e-004		8.6700e-003	8.6700e-003		7.9800e-003	7.9800e-003	0.0000	10.7255	10.7255	3.2900e-003	0.0000	10.7945

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	5.0000e-004	7.2600e-003	4.4400e-003	2.0000e-005	7.0000e-004	1.3000e-004	8.3000e-004	2.0000e-004	1.2000e-004	3.2000e-004	0.0000	2.1606	2.1606	1.0000e-005	0.0000	2.1609
Worker	1.2500e-003	3.1800e-003	0.0288	6.0000e-005	4.9500e-003	4.0000e-005	4.9900e-003	1.3200e-003	4.0000e-005	1.3500e-003	0.0000	4.1728	4.1728	2.4000e-004	0.0000	4.1777
Total	1.7500e-003	0.0104	0.0332	8.0000e-005	5.6500e-003	1.7000e-004	5.8200e-003	1.5200e-003	1.6000e-004	1.6700e-003	0.0000	6.3334	6.3334	2.5000e-004	0.0000	6.3387

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Recreational	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
User Defined Recreational	10.52	10.52	10.52	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.400575	0.057455	0.217640	0.159866	0.073928	0.007831	0.015038	0.051979	0.001726	0.001142	0.007674	0.000820	0.004326

5.0 Energy Detail

4.4 Fleet Mix

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
	tons/yr										MT/yr					
Electricity Mitigated							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
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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
User Defined Recreational	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	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

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
User Defined Recreational	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	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

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Recreational	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			
User Defined Recreational	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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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
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

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
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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	
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Landscaping	0.0000	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

	ROG	NOx	CO	SO2	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
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	0.0000	0.0000	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

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
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7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Recreational	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			
User Defined Recreational	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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Recreational	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			
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000

Total		0.0000	0.0000	0.0000	0.0000
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9.0 Operational Offroad

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

Oroville Wildlife Area Butte County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	0.60	Acre	0.60	26,136.00	0
User Defined Recreational	0.00	User Defined Unit	120.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	71
Climate Zone	3			Operational Year	2019
Utility Company	Pacific Gas & Electric Company				
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

Project Characteristics -

Land Use - From Project Description 02/18/16

Construction Phase - Per Project Description

Off-road Equipment - How are we modeling water trucks and haul trucks for this phase?

Off-road Equipment - This phase only included for concrete pouring.

Off-road Equipment - How are we modeling concrete trucks and water trucks for this phase?

Off-road Equipment - How would we model haul trucks for this phase?

Off-road Equipment - How will we model hydroseeding trucks in this phase?

Off-road Equipment - What should we model mule/gator as?

Trips and VMT - Parks Bar Quarry is 33 miles away. On-Site haul and hydroseeding truck activity captured in haul trips; water and cement trucks

Grading - Per Project Description

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	220.00	80.00
tblConstructionPhase	NumDays	120.00	45.00
tblConstructionPhase	NumDays	120.00	80.00
tblConstructionPhase	NumDays	120.00	10.00
tblConstructionPhase	NumDays	120.00	20.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	12/15/2017	9/13/2017
tblConstructionPhase	PhaseEndDate	9/7/2017	9/13/2017
tblConstructionPhase	PhaseStartDate	9/14/2017	6/13/2017
tblConstructionPhase	PhaseStartDate	6/7/2017	6/13/2017
tblGrading	AcresOfGrading	200.00	120.00
tblGrading	MaterialImported	0.00	44,400.00
tblLandUse	LotAcreage	0.00	120.00
tblOffRoadEquipment	HorsePower	84.00	50.00
tblOffRoadEquipment	HorsePower	84.00	50.00
tblOffRoadEquipment	HorsePower	84.00	50.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00

tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	5.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2019
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	75.00
tblTripsAndVMT	HaulingTripLength	20.00	33.00
tblTripsAndVMT	HaulingTripLength	20.00	150.00
tblTripsAndVMT	HaulingTripLength	20.00	150.00
tblTripsAndVMT	HaulingTripNumber	0.00	1.00
tblTripsAndVMT	HaulingTripNumber	0.00	1.00
tblTripsAndVMT	HaulingTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripLength	10.52	240.00
tblTripsAndVMT	VendorTripLength	10.52	240.00
tblTripsAndVMT	VendorTripLength	10.52	150.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.3946	4.2235	2.5236	6.5200e-003	0.1788	0.1935	0.3723	0.0383	0.1786	0.2168	0.0000	586.2460	586.2460	0.0661	0.0000	587.6344
Total	0.3946	4.2235	2.5236	6.5200e-003	0.1788	0.1935	0.3723	0.0383	0.1786	0.2168	0.0000	586.2460	586.2460	0.0661	0.0000	587.6344

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.3946	4.2235	2.5236	6.5200e-003	0.1788	0.1935	0.3723	0.0383	0.1786	0.2168	0.0000	586.2458	586.2458	0.0661	0.0000	587.6342
Total	0.3946	4.2235	2.5236	6.5200e-003	0.1788	0.1935	0.3723	0.0383	0.1786	0.2168	0.0000	586.2458	586.2458	0.0661	0.0000	587.6342

	ROG	NOx	CO	SO2	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

2.2 Overall Operational

Unmitigated Operational

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Clearing, Grubbing, & Stripping	Site Preparation	4/15/2017	6/6/2017	6	45	
2	Construction Activities	Site Preparation	6/13/2017	9/13/2017	6	80	
3	Concrete Pouring	Paving	6/13/2017	9/13/2017	6	80	
4	Hydroseeding	Site Preparation	9/14/2017	9/25/2017	6	10	
5	Demobilization & Site Cleanup	Site Preparation	9/26/2017	10/18/2017	6	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Clearing, Grubbing, & Stripping	Generator Sets	2	2.00	50	0.74
Clearing, Grubbing, & Stripping	Rubber Tired Dozers	0	0.00	255	0.40
Clearing, Grubbing, & Stripping	Rubber Tired Loaders	2	5.00	199	0.36
Clearing, Grubbing, & Stripping	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Construction Activities	Cranes	1	5.00	226	0.29
Construction Activities	Generator Sets	2	2.00	50	0.74
Construction Activities	Graders	4	10.00	174	0.41
Construction Activities	Rollers	4	5.00	80	0.38
Construction Activities	Rubber Tired Dozers	0	0.00	255	0.40
Construction Activities	Tractors/Loaders/Backhoes	4	5.00	97	0.37
Concrete Pouring	Pavers	0	0.00	125	0.42
Concrete Pouring	Paving Equipment	0	0.00	130	0.36

Concrete Pouring	Rollers	0	0.00	80	0.38
Hydroseeding	Rubber Tired Dozers	0	0.00	255	0.40
Hydroseeding	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Demobilization & Site Cleanup	Forklifts	2	2.50	89	0.20
Demobilization & Site Cleanup	Generator Sets	2	2.00	50	0.74
Demobilization & Site Cleanup	Rubber Tired Dozers	0	0.00	255	0.40
Demobilization & Site Cleanup	Tractors/Loaders/Backhoes	0	0.00	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
Clearing, Grubbing, & Stripping	4	10.00	1.00	1.00	12.54	240.00	75.00	LD_Mix	HDT_Mix	HHDT
Construction Activities	15	38.00	1.00	5,550.00	12.54	240.00	33.00	LD_Mix	HDT_Mix	HHDT
Concrete Pouring	0	0.00	1.00	0.00	12.54	150.00	20.00	LD_Mix	HDT_Mix	HHDT
Hydroseeding	0	10.00	0.00	1.00	12.54	10.52	150.00	LD_Mix	HDT_Mix	HHDT
Demobilization & Site Cleanup	4	10.00	0.00	1.00	12.54	10.52	150.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Clearing, Grubbing, & Stripping - 2017

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0207	0.2022	0.0819	2.2000e-004	7.8500e-003	7.8500e-003	7.3900e-003	7.3900e-003	0.0000	19.7733	19.7733	5.5000e-003	0.0000	19.8889		
Total	0.0207	0.2022	0.0819	2.2000e-004	7.8500e-003	7.8500e-003	0.0000	7.3900e-003	7.3900e-003	0.0000	19.7733	19.7733	5.5000e-003	0.0000	19.8889	

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	2.0000e-005	4.1000e-004	1.9000e-004	0.0000	3.0000e-005	1.0000e-005	4.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	0.0000	0.1234	0.1234	0.0000	0.0000	0.1234
Vendor	2.5900e-003	0.0469	0.0182	1.6000e-004	4.6900e-003	8.8000e-004	5.5700e-003	1.3400e-003	8.1000e-004	2.1500e-003	0.0000	14.4108	14.4108	9.0000e-005	0.0000	14.4127
Worker	9.8000e-004	1.4200e-003	0.0135	2.0000e-005	2.0600e-003	2.0000e-005	2.0700e-003	5.5000e-004	2.0000e-005	5.6000e-004	0.0000	1.7658	1.7658	1.0000e-004	0.0000	1.7680
Total	3.5900e-003	0.0488	0.0319	1.8000e-004	6.7800e-003	9.1000e-004	7.6800e-003	1.9000e-003	8.4000e-004	2.7200e-003	0.0000	16.2999	16.2999	1.9000e-004	0.0000	16.3040

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
Off-Road	0.0207	0.2022	0.0819	2.2000e-004		7.8500e-003	7.8500e-003		7.3900e-003	7.3900e-003	0.0000	19.7733	19.7733	5.5000e-003	0.0000	19.8889
Total	0.0207	0.2022	0.0819	2.2000e-004	0.0000	7.8500e-003	7.8500e-003	0.0000	7.3900e-003	7.3900e-003	0.0000	19.7733	19.7733	5.5000e-003	0.0000	19.8889

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
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Category	tons/yr										MT/yr					
	Hauling	2.0000e-005	4.1000e-004	1.9000e-004	0.0000	3.0000e-005	1.0000e-005	4.0000e-005	1.0000e-005	1.0000e-005	1.0000e-005	0.0000	0.1234	0.1234	0.0000	0.0000
Vendor	2.5900e-003	0.0469	0.0182	1.6000e-004	4.6900e-003	8.8000e-004	5.5700e-003	1.3400e-003	8.1000e-004	2.1500e-003	0.0000	14.4108	14.4108	9.0000e-005	0.0000	14.4127
Worker	9.8000e-004	1.4200e-003	0.0135	2.0000e-005	2.0600e-003	2.0000e-005	2.0700e-003	5.5000e-004	2.0000e-005	5.6000e-004	0.0000	1.7658	1.7658	1.0000e-004	0.0000	1.7680
Total	3.5900e-003	0.0488	0.0319	1.8000e-004	6.7800e-003	9.1000e-004	7.6800e-003	1.9000e-003	8.4000e-004	2.7200e-003	0.0000	16.2999	16.2999	1.9000e-004	0.0000	16.3040

3.3 Construction Activities - 2017

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					0.0661	0.0000	0.0661	7.2500e-003	0.0000	7.2500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2828	2.7741	1.5310	2.0500e-003		0.1645	0.1645		0.1517	0.1517	0.0000	188.7046	188.7046	0.0568	0.0000	189.8981
Total	0.2828	2.7741	1.5310	2.0500e-003	0.0661	0.1645	0.2307	7.2500e-003	0.1517	0.1589	0.0000	188.7046	188.7046	0.0568	0.0000	189.8981

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	0.0679	1.0242	0.7023	3.3700e-003	0.0770	0.0157	0.0926	0.0212	0.0144	0.0356	0.0000	303.6483	303.6483	1.9900e-003	0.0000	303.6902
Vendor	4.6100e-003	0.0835	0.0324	2.8000e-004	8.3400e-003	1.5600e-003	9.9000e-003	2.3800e-003	1.4400e-003	3.8200e-003	0.0000	25.6192	25.6192	1.6000e-004	0.0000	25.6225
Worker	6.6200e-003	9.6100e-003	0.0909	1.7000e-004	0.0139	1.2000e-004	0.0140	3.6900e-003	1.1000e-004	3.8000e-003	0.0000	11.9286	11.9286	7.1000e-004	0.0000	11.9435

Total	0.0792	1.1173	0.8256	3.8200e-003	0.0992	0.0173	0.1165	0.0272	0.0160	0.0432	0.0000	341.1961	341.1961	2.8600e-003	0.0000	341.2562
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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					0.0661	0.0000	0.0661	7.2500e-003	0.0000	7.2500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2828	2.7741	1.5310	2.0500e-003		0.1645	0.1645		0.1517	0.1517	0.0000	188.7044	188.7044	0.0568	0.0000	189.8979
Total	0.2828	2.7741	1.5310	2.0500e-003	0.0661	0.1645	0.2307	7.2500e-003	0.1517	0.1589	0.0000	188.7044	188.7044	0.0568	0.0000	189.8979

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	0.0679	1.0242	0.7023	3.3700e-003	0.0770	0.0157	0.0926	0.0212	0.0144	0.0356	0.0000	303.6483	303.6483	1.9900e-003	0.0000	303.6902
Vendor	4.6100e-003	0.0835	0.0324	2.8000e-004	8.3400e-003	1.5600e-003	9.9000e-003	2.3800e-003	1.4400e-003	3.8200e-003	0.0000	25.6192	25.6192	1.6000e-004	0.0000	25.6225
Worker	6.6200e-003	9.6100e-003	0.0909	1.7000e-004	0.0139	1.2000e-004	0.0140	3.6900e-003	1.1000e-004	3.8000e-003	0.0000	11.9286	11.9286	7.1000e-004	0.0000	11.9435
Total	0.0792	1.1173	0.8256	3.8200e-003	0.0992	0.0173	0.1165	0.0272	0.0160	0.0432	0.0000	341.1961	341.1961	2.8600e-003	0.0000	341.2562

3.4 Concrete Pouring - 2017

Unmitigated Construction On-Site

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
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.9900e-003	0.0524	0.0218	1.8000e-004	5.2100e-003	9.8000e-004	6.1900e-003	1.4900e-003	9.0000e-004	2.3900e-003	0.0000	16.0351	16.0351	1.0000e-004	0.0000	16.0372
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	2.9900e-003	0.0524	0.0218	1.8000e-004	5.2100e-003	9.8000e-004	6.1900e-003	1.4900e-003	9.0000e-004	2.3900e-003	0.0000	16.0351	16.0351	1.0000e-004	0.0000	16.0372

3.5 Hydroseeding - 2017

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					0.0000	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
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

Unmitigated Construction Off-Site

Worker	2.2000e-004	3.2000e-004	2.9900e-003	1.0000e-005	4.6000e-004	0.0000	4.6000e-004	1.2000e-004	0.0000	1.3000e-004	0.0000	0.3924	0.3924	2.0000e-005	0.0000	0.3929
Total	2.6000e-004	1.1300e-003	3.2900e-003	1.0000e-005	5.2000e-004	1.0000e-005	5.4000e-004	1.4000e-004	1.0000e-005	1.6000e-004	0.0000	0.6383	0.6383	2.0000e-005	0.0000	0.6388

3.6 Demobilization & Site Cleanup - 2017

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.6400e-003	0.0262	0.0218	3.0000e-005		1.8700e-003	1.8700e-003		1.8000e-003	1.8000e-003	0.0000	2.5681	2.5681	5.4000e-004	0.0000	2.5795
Total	4.6400e-003	0.0262	0.0218	3.0000e-005	0.0000	1.8700e-003	1.8700e-003	0.0000	1.8000e-003	1.8000e-003	0.0000	2.5681	2.5681	5.4000e-004	0.0000	2.5795

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	4.0000e-005	8.1000e-004	3.0000e-004	0.0000	6.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.2459	0.2459	0.0000	0.0000	0.2460
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	4.4000e-004	6.3000e-004	5.9800e-003	1.0000e-005	9.1000e-004	1.0000e-005	9.2000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.7848	0.7848	5.0000e-005	0.0000	0.7858
Total	4.8000e-004	1.4400e-003	6.2800e-003	1.0000e-005	9.7000e-004	2.0000e-005	1.0000e-003	2.6000e-004	2.0000e-005	2.8000e-004	0.0000	1.0307	1.0307	5.0000e-005	0.0000	1.0317

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
Off-Road	4.6400e-003	0.0262	0.0218	3.0000e-005		1.8700e-003	1.8700e-003		1.8000e-003	1.8000e-003	0.0000	2.5681	2.5681	5.4000e-004	0.0000	2.5795
Total	4.6400e-003	0.0262	0.0218	3.0000e-005	0.0000	1.8700e-003	1.8700e-003	0.0000	1.8000e-003	1.8000e-003	0.0000	2.5681	2.5681	5.4000e-004	0.0000	2.5795

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	4.0000e-005	8.1000e-004	3.0000e-004	0.0000	6.0000e-005	1.0000e-005	8.0000e-005	2.0000e-005	1.0000e-005	3.0000e-005	0.0000	0.2459	0.2459	0.0000	0.0000	0.2460
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	4.4000e-004	6.3000e-004	5.9800e-003	1.0000e-005	9.1000e-004	1.0000e-005	9.2000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.7848	0.7848	5.0000e-005	0.0000	0.7858
Total	4.8000e-004	1.4400e-003	6.2800e-003	1.0000e-005	9.7000e-004	2.0000e-005	1.0000e-003	2.6000e-004	2.0000e-005	2.8000e-004	0.0000	1.0307	1.0307	5.0000e-005	0.0000	1.0317

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
User Defined Recreational	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
Other Non-Asphalt Surfaces	10.52	10.52	10.52	0.00	0.00	0.00	0	0	0
User Defined Recreational	10.52	10.52	10.52	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.400575	0.057455	0.217640	0.159866	0.073928	0.007831	0.015038	0.051979	0.001726	0.001142	0.007674	0.000820	0.004326

5.0 Energy Detail

4.4 Fleet Mix

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
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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
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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			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	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			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.1324	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Unmitigated	0.1324	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005

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	0.0303					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1021					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Total	0.1324	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005

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	0.0303					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1021					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Total	0.1324	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005

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

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	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			
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	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

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	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			
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
User Defined Recreational	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 Vegetation

Oroville Wildlife Area
Butte County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Non-Asphalt Surfaces	0.60	Acre	0.60	26,136.00	0
User Defined Recreational	0.00	User Defined Unit	120.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	71
Climate Zone	3			Operational Year	2019
Utility Company	Pacific Gas & Electric Company				
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

Project Characteristics -
 Land Use - From Project Description 02/18/16
 Construction Phase - Per Project Description
 Off-road Equipment - How are we modeling water trucks and haul trucks for this phase?
 Off-road Equipment - This phase only included for concrete pouring.
 Off-road Equipment - How are we modeling concrete trucks and water trucks for this phase?
 Off-road Equipment - How would we model haul trucks for this phase?
 Off-road Equipment - How will we model hydroseeding trucks in this phase?
 Off-road Equipment - What should we model mule/gator as?
 Trips and VMT - Parks Bar Quarry is 33 miles away. On-Site haul and hydroseeding truck activity captured in haul trips; water and cement trucks
 Grading - Per Project Description

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	220.00	80.00
tblConstructionPhase	NumDays	120.00	45.00
tblConstructionPhase	NumDays	120.00	80.00
tblConstructionPhase	NumDays	120.00	10.00
tblConstructionPhase	NumDays	120.00	20.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	12/15/2017	9/13/2017
tblConstructionPhase	PhaseEndDate	9/7/2017	9/13/2017
tblConstructionPhase	PhaseStartDate	9/14/2017	6/13/2017
tblConstructionPhase	PhaseStartDate	6/7/2017	6/13/2017
tblGrading	AcresOfGrading	200.00	120.00
tblGrading	MaterialImported	0.00	44,400.00
tblLandUse	LotAcreage	0.00	120.00
tblOffRoadEquipment	HorsePower	84.00	50.00
tblOffRoadEquipment	HorsePower	84.00	50.00
tblOffRoadEquipment	HorsePower	84.00	50.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00

tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	5.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2019
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	HaulingTripLength	20.00	75.00
tblTripsAndVMT	HaulingTripLength	20.00	33.00
tblTripsAndVMT	HaulingTripLength	20.00	150.00
tblTripsAndVMT	HaulingTripLength	20.00	150.00
tblTripsAndVMT	HaulingTripNumber	0.00	1.00
tblTripsAndVMT	HaulingTripNumber	0.00	1.00
tblTripsAndVMT	HaulingTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripLength	10.52	240.00
tblTripsAndVMT	VendorTripLength	10.52	240.00
tblTripsAndVMT	VendorTripLength	10.52	150.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	WorkerTripNumber	0.00	10.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	9.2518	99.2809	63.1770	0.1511	4.3647	4.5715	8.9362	0.9244	4.2131	5.1375	0.0000	15,026.9273	15,026.9273	1.6482	0.0000	15,061.5404
Total	9.2518	99.2809	63.1770	0.1511	4.3647	4.5715	8.9362	0.9244	4.2131	5.1375	0.0000	15,026.9273	15,026.9273	1.6482	0.0000	15,061.5404

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	9.2518	99.2809	63.1770	0.1511	4.3647	4.5715	8.9362	0.9244	4.2131	5.1375	0.0000	15,026.9273	15,026.9273	1.6482	0.0000	15,061.5404
Total	9.2518	99.2809	63.1770	0.1511	4.3647	4.5715	8.9362	0.9244	4.2131	5.1375	0.0000	15,026.9273	15,026.9273	1.6482	0.0000	15,061.5404

	ROG	NOx	CO	SO2	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

2.2 Overall Operational

Unmitigated Operational

1	Clearing, Grubbing, & Stripping	Site Preparation	4/15/2017	6/6/2017	6	45
2	Construction Activities	Site Preparation	6/13/2017	9/13/2017	6	80
3	Concrete Pouring	Paving	6/13/2017	9/13/2017	6	80
4	Hydroseeding	Site Preparation	9/14/2017	9/25/2017	6	10
5	Demobilization & Site Cleanup	Site Preparation	9/26/2017	10/18/2017	6	20

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Clearing, Grubbing, & Stripping	Generator Sets	2	2.00	50	0.74
Clearing, Grubbing, & Stripping	Rubber Tired Dozers	0	0.00	255	0.40
Clearing, Grubbing, & Stripping	Rubber Tired Loaders	2	5.00	199	0.36
Clearing, Grubbing, & Stripping	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Construction Activities	Cranes	1	5.00	226	0.29
Construction Activities	Generator Sets	2	2.00	50	0.74
Construction Activities	Graders	4	10.00	174	0.41
Construction Activities	Rollers	4	5.00	80	0.38
Construction Activities	Rubber Tired Dozers	0	0.00	255	0.40
Construction Activities	Tractors/Loaders/Backhoes	4	5.00	97	0.37
Concrete Pouring	Pavers	0	0.00	125	0.42
Concrete Pouring	Paving Equipment	0	0.00	130	0.36
Concrete Pouring	Rollers	0	0.00	80	0.38
Hydroseeding	Rubber Tired Dozers	0	0.00	255	0.40
Hydroseeding	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Demobilization & Site Cleanup	Forklifts	2	2.50	89	0.20
Demobilization & Site Cleanup	Generator Sets	2	2.00	50	0.74
Demobilization & Site Cleanup	Rubber Tired Dozers	0	0.00	255	0.40

Category	lb/day										lb/day					
Hauling	1.0400e-003	0.0185	9.4900e-003	6.0000e-005	1.4500e-003	2.8000e-004	1.7400e-003	4.0000e-004	2.6000e-004	6.6000e-004		6.0408	6.0408	4.0000e-005		6.0416
Vendor	0.1169	2.1363	0.8532	7.1100e-003	0.2161	0.0391	0.2552	0.0614	0.0360	0.0974		705.9027	705.9027	4.4600e-003		705.9964
Worker	0.0447	0.0711	0.6135	1.0700e-003	0.0954	7.9000e-004	0.0962	0.0253	7.2000e-004	0.0260		83.7040	83.7040	5.1300e-003		83.8118
Total	0.1626	2.2259	1.4762	8.2400e-003	0.3129	0.0402	0.3531	0.0871	0.0370	0.1240		795.6475	795.6475	9.6300e-003		795.8498

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.9205	8.9850	3.6387	9.9400e-003		0.3488	0.3488		0.3284	0.3284	0.0000	968.7260	968.7260	0.2697		974.3896
Total	0.9205	8.9850	3.6387	9.9400e-003	0.0000	0.3488	0.3488	0.0000	0.3284	0.3284	0.0000	968.7260	968.7260	0.2697		974.3896

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	1.0400e-003	0.0185	9.4900e-003	6.0000e-005	1.4500e-003	2.8000e-004	1.7400e-003	4.0000e-004	2.6000e-004	6.6000e-004		6.0408	6.0408	4.0000e-005		6.0416
Vendor	0.1169	2.1363	0.8532	7.1100e-003	0.2161	0.0391	0.2552	0.0614	0.0360	0.0974		705.9027	705.9027	4.4600e-003		705.9964
Worker	0.0447	0.0711	0.6135	1.0700e-003	0.0954	7.9000e-004	0.0962	0.0253	7.2000e-004	0.0260		83.7040	83.7040	5.1300e-003		83.8118

Total	0.1626	2.2259	1.4762	8.2400e-003	0.3129	0.0402	0.3531	0.0871	0.0370	0.1240		795.6475	795.6475	9.6300e-003		795.8498
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3.3 Construction Activities - 2017

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					1.6535	0.0000	1.6535	0.1813	0.0000	0.1813			0.0000			0.0000
Off-Road	7.0690	69.3533	38.2753	0.0513		4.1130	4.1130		3.7914	3.7914		5,200.2796	5,200.2796	1.5662		5,233.1705
Total	7.0690	69.3533	38.2753	0.0513	1.6535	4.1130	5.7665	0.1813	3.7914	3.9727		5,200.2796	5,200.2796	1.5662		5,233.1705

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	1.8199	26.1793	21.1314	0.0843	1.9976	0.3919	2.3895	0.5472	0.3605	0.9077		8,360.8821	8,360.8821	0.0552		8,362.0422
Vendor	0.1169	2.1363	0.8532	7.1100e-003	0.2161	0.0391	0.2552	0.0614	0.0360	0.0974		705.9027	705.9027	4.4600e-003		705.9964
Worker	0.1698	0.2700	2.3314	4.0600e-003	0.3624	2.9900e-003	0.3654	0.0961	2.7300e-003	0.0989		318.0752	318.0752	0.0195		318.4849
Total	2.1065	28.5856	24.3160	0.0954	2.5761	0.4340	3.0101	0.7047	0.3992	1.1039		9,384.8601	9,384.8601	0.0792		9,386.5234

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					1.6535	0.0000	1.6535	0.1813	0.0000	0.1813			0.0000			0.0000
Off-Road	7.0690	69.3533	38.2753	0.0513		4.1130	4.1130		3.7914	3.7914	0.0000	5,200.2796	5,200.2796	1.5662		5,233.1705
Total	7.0690	69.3533	38.2753	0.0513	1.6535	4.1130	5.7665	0.1813	3.7914	3.9727	0.0000	5,200.2796	5,200.2796	1.5662		5,233.1705

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	1.8199	26.1793	21.1314	0.0843	1.9976	0.3919	2.3895	0.5472	0.3605	0.9077		8,360.8821	8,360.8821	0.0552		8,362.0422
Vendor	0.1169	2.1363	0.8532	7.1100e-003	0.2161	0.0391	0.2552	0.0614	0.0360	0.0974		705.9027	705.9027	4.4600e-003		705.9964
Worker	0.1698	0.2700	2.3314	4.0600e-003	0.3624	2.9900e-003	0.3654	0.0961	2.7300e-003	0.0989		318.0752	318.0752	0.0195		318.4849
Total	2.1065	28.5856	24.3160	0.0954	2.5761	0.4340	3.0101	0.7047	0.3992	1.1039		9,384.8601	9,384.8601	0.0792		9,386.5234

3.4 Concrete Pouring - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Paving	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
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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	0.0763	1.3420	0.5856	4.4500e-003	0.1351	0.0245	0.1596	0.0384	0.0225	0.0609		441.7876	441.7876	2.8000e-003		441.8465
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
Total	0.0763	1.3420	0.5856	4.4500e-003	0.1351	0.0245	0.1596	0.0384	0.0225	0.0609		441.7876	441.7876	2.8000e-003		441.8465

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Paving	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 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	0.0763	1.3420	0.5856	4.4500e-003	0.1351	0.0245	0.1596	0.0384	0.0225	0.0609		441.7876	441.7876	2.8000e-003		441.8465
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
Total	0.0763	1.3420	0.5856	4.4500e-003	0.1351	0.0245	0.1596	0.0384	0.0225	0.0609		441.7876	441.7876	2.8000e-003		441.8465

3.5 Hydroseeding - 2017

Unmitigated Construction On-Site

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

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	8.4000e-003	0.1648	0.0646	5.4000e-004	0.0131	2.5500e-003	0.0156	3.5800e-003	2.3400e-003	5.9200e-003		54.2045	54.2045	3.4000e-004		54.2117
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	0.0447	0.0711	0.6135	1.0700e-003	0.0954	7.9000e-004	0.0962	0.0253	7.2000e-004	0.0260		83.7040	83.7040	5.1300e-003		83.8118
Total	0.0531	0.2359	0.6781	1.6100e-003	0.1085	3.3400e-003	0.1118	0.0289	3.0600e-003	0.0319		137.9085	137.9085	5.4700e-003		138.0235

Mitigated Construction On-Site

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

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	8.4000e-003	0.1648	0.0646	5.4000e-004	0.0131	2.5500e-003	0.0156	3.5800e-003	2.3400e-003	5.9200e-003			54.2045	54.2045	3.4000e-004	54.2117
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	0.0447	0.0711	0.6135	1.0700e-003	0.0954	7.9000e-004	0.0962	0.0253	7.2000e-004	0.0260			83.7040	83.7040	5.1300e-003	83.8118
Total	0.0531	0.2359	0.6781	1.6100e-003	0.1085	3.3400e-003	0.1118	0.0289	3.0600e-003	0.0319			137.9085	137.9085	5.4700e-003	138.0235

3.6 Demobilization & Site Cleanup - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.4637	2.6170	2.1811	3.2400e-003		0.1872	0.1872		0.1796	0.1796		283.0862	283.0862	0.0596		284.3381
Total	0.4637	2.6170	2.1811	3.2400e-003	0.0000	0.1872	0.1872	0.0000	0.1796	0.1796		283.0862	283.0862	0.0596		284.3381

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	4.2000e-003	0.0824	0.0323	2.7000e-004	6.5400e-003	1.2700e-003	7.8100e-003	1.7900e-003	1.1700e-003	2.9600e-003		27.1023	27.1023	1.7000e-004		27.1058
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	0.0447	0.0711	0.6135	1.0700e-003	0.0954	7.9000e-004	0.0962	0.0253	7.2000e-004	0.0260		83.7040	83.7040	5.1300e-003		83.8118
Total	0.0489	0.1535	0.6458	1.3400e-003	0.1019	2.0600e-003	0.1040	0.0271	1.8900e-003	0.0290		110.8063	110.8063	5.3000e-003		110.9176

Mitigated Construction On-Site

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

Off-Road	0.4637	2.6170	2.1811	3.2400e-003		0.1872	0.1872		0.1796	0.1796	0.0000	283.0862	283.0862	0.0596		284.3381
Total	0.4637	2.6170	2.1811	3.2400e-003	0.0000	0.1872	0.1872	0.0000	0.1796	0.1796	0.0000	283.0862	283.0862	0.0596		284.3381

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	4.2000e-003	0.0824	0.0323	2.7000e-004	6.5400e-003	1.2700e-003	7.8100e-003	1.7900e-003	1.1700e-003	2.9600e-003			27.1023	27.1023	1.7000e-004		27.1058
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	0.0447	0.0711	0.6135	1.0700e-003	0.0954	7.9000e-004	0.0962	0.0253	7.2000e-004	0.0260			83.7040	83.7040	5.1300e-003		83.8118
Total	0.0489	0.1535	0.6458	1.3400e-003	0.1019	2.0600e-003	0.1040	0.0271	1.8900e-003	0.0290			110.8063	110.8063	5.3000e-003		110.9176

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Mitigated	0.0000	0.0000	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
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
User Defined Recreational	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
Other Non-Asphalt Surfaces	10.52	10.52	10.52	0.00	0.00	0.00	0	0	0
User Defined Recreational	10.52	10.52	10.52	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.400575	0.057455	0.217640	0.159866	0.073928	0.007831	0.015038	0.051979	0.001726	0.001142	0.007674	0.000820	0.004326

5.0 Energy Detail

4.4 Fleet Mix

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

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Recreational	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
Other Non-Asphalt Surfaces	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

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Recreational	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
Other Non-Asphalt Surfaces	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
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Category	lb/day										lb/day						
	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Mitigated	0.7253	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000			1.3000e-004	1.3000e-004	0.0000		1.4000e-004
Unmitigated	0.7253	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000			1.3000e-004	1.3000e-004	0.0000		1.4000e-004

6.2 Area by SubCategory

Unmitigated

SubCategory	ROG	NOx	CO	SO2	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						
Architectural Coating	0.1660					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Consumer Products	0.5593					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Landscaping	1.0000e-005	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000			1.3000e-004	1.3000e-004	0.0000		1.4000e-004
Total	0.7253	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000			1.3000e-004	1.3000e-004	0.0000		1.4000e-004

Mitigated

SubCategory	ROG	NOx	CO	SO2	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						
Architectural Coating	0.1660					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Consumer Products	0.5593					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000	
Landscaping	1.0000e-005	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000			1.3000e-004	1.3000e-004	0.0000		1.4000e-004

Total	0.7253	0.0000	6.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		1.3000e-004	1.3000e-004	0.0000		1.4000e-004
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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 Vegetation

**Oroville Wildlife Area
Butte County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Recreational	0.00	User Defined Unit	500.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	71
Climate Zone	3			Operational Year	2019
Utility Company	Pacific Gas & Electric Company				
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

- Project Characteristics -
- Land Use - From OWA AQ Modeling Assumptions spreadsheet
- Construction Phase - Per OWA Air Quality Modeling Assumptions spreadsheet
- Off-road Equipment - Passenger vehicles only
- Off-road Equipment - Per OWA Modeling Assumptions
- Off-road Equipment - Per OWA modeling assumptions
- Off-road Equipment - Passenger vehicles only
- Trips and VMT - Weighted average of worker trip lengths; delivery trucks for potted stock captured in vendor trips

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	7,750.00	20.00
tblConstructionPhase	NumDays	300.00	120.00

tblConstructionPhase	NumDays	300.00	36.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	PhaseEndDate	7/12/2017	7/17/2017
tblConstructionPhase	PhaseEndDate	10/13/2017	5/26/2017
tblConstructionPhase	PhaseStartDate	6/20/2017	6/24/2017
tblConstructionPhase	PhaseStartDate	9/2/2017	4/15/2017
tblLandUse	LotAcreage	0.00	500.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	3.50
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2019
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblTripsAndVMT	VendorTripLength	10.52	40.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00

tblTripsAndVMT	WorkerTripLength	12.54	54.00
tblTripsAndVMT	WorkerTripLength	12.54	56.67
tblTripsAndVMT	WorkerTripLength	12.54	56.67
tblTripsAndVMT	WorkerTripLength	12.54	56.67
tblTripsAndVMT	WorkerTripNumber	0.00	10.00
tblTripsAndVMT	WorkerTripNumber	0.00	12.00
tblTripsAndVMT	WorkerTripNumber	13.00	12.00
tblTripsAndVMT	WorkerTripNumber	0.00	12.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	1.8842	15.6012	15.0918	0.0242	0.9992	1.1655	2.0926	0.2663	1.0722	1.3180	0.0000	2,218.468 3	2,218.468 3	0.4419	0.0000	2,227.747 8
Total	1.8842	15.6012	15.0918	0.0242	0.9992	1.1655	2.0926	0.2663	1.0722	1.3180	0.0000	2,218.468 3	2,218.468 3	0.4419	0.0000	2,227.747 8

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	1.8842	15.6012	15.0918	0.0242	0.9992	1.1655	2.0926	0.2663	1.0722	1.3180	0.0000	2,218.468 3	2,218.468 3	0.4419	0.0000	2,227.747 8

Total	1.8842	15.6012	15.0918	0.0242	0.9992	1.1655	2.0926	0.2663	1.0722	1.3180	0.0000	2,218.468 3	2,218.468 3	0.4419	0.0000	2,227.747 8
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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

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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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	0.0000	0.0000	0.0000	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 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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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	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

	ROG	NOx	CO	SO2	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	Mechanical Weed Treatments	Site Preparation	4/15/2017	9/1/2017	6	120	
2	WP Site Prep	Site Preparation	4/15/2017	5/26/2017	6	36	
3	WP Irrigation System Installation	Trenching	5/27/2017	6/19/2017	6	20	
4	WP Plantings	Building Construction	6/24/2017	7/17/2017	6	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Mechanical Weed Treatments	Concrete/Industrial Saws	0	0.00	81	0.73
Mechanical Weed Treatments	Excavators	0	0.00	162	0.38
Mechanical Weed Treatments	Rubber Tired Dozers	0	0.00	255	0.40
Mechanical Weed Treatments	Tractors/Loaders/Backhoes	0	0.00	97	0.37
WP Site Prep	Rubber Tired Dozers	0	0.00	255	0.40
WP Site Prep	Tractors/Loaders/Backhoes	0	0.00	97	0.37
WP Irrigation System Installation	Excavators	0	0.00	162	0.38

WP Irrigation System Installation	Forklifts	1	3.50	89	0.20
WP Irrigation System Installation	Graders	0	0.00	174	0.41
WP Irrigation System Installation	Rubber Tired Dozers	0	0.00	255	0.40
WP Irrigation System Installation	Scrapers	0	0.00	361	0.48
WP Irrigation System Installation	Tractors/Loaders/Backhoes	2	7.00	97	0.37
WP Irrigation System Installation	Trenchers	2	7.50	80	0.50
WP Plantings	Cranes	0	0.00	226	0.29
WP Plantings	Forklifts	1	3.50	89	0.20
WP Plantings	Generator Sets	0	0.00	84	0.74
WP Plantings	Tractors/Loaders/Backhoes	4	7.00	97	0.37
WP Plantings	Welders	0	0.00	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
Mechanical Weed Treatments	0	10.00	0.00	0.00	54.00	10.52	20.00	LD_Mix	HDT_Mix	HHDT
WP Site Prep	0	12.00	0.00	0.00	56.67	10.52	20.00	LD_Mix	HDT_Mix	HHDT
WP Irrigation System Installation	5	12.00	0.00	0.00	56.67	10.52	20.00	LD_Mix	HDT_Mix	HHDT
WP Plantings	5	12.00	2.00	0.00	56.67	40.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Mechanical Weed Treatments - 2017

Unmitigated Construction On-Site

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

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	0.1026	0.2838	2.2634	4.5100e-003	0.4103	3.0800e-003	0.4134	0.1088	2.8100e-003	0.1116		353.3548	353.3548	0.0207		353.7903
Total	0.1026	0.2838	2.2634	4.5100e-003	0.4103	3.0800e-003	0.4134	0.1088	2.8100e-003	0.1116		353.3548	353.3548	0.0207		353.7903

Mitigated Construction On-Site

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

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	0.1026	0.2838	2.2634	4.5100e-003	0.4103	3.0800e-003	0.4134	0.1088	2.8100e-003	0.1116		353.3548	353.3548	0.0207		353.7903
Total	0.1026	0.2838	2.2634	4.5100e-003	0.4103	3.0800e-003	0.4134	0.1088	2.8100e-003	0.1116		353.3548	353.3548	0.0207		353.7903

3.3 WP Site Prep - 2017

Unmitigated Construction On-Site

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

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	0.0000	0.0000
Worker	0.1276	0.3570	2.8436	5.6800e-003	0.5168	3.8700e-003	0.5206	0.1370	3.5400e-003	0.1405		444.8642	444.8642	0.0261		445.4121
Total	0.1276	0.3570	2.8436	5.6800e-003	0.5168	3.8700e-003	0.5206	0.1370	3.5400e-003	0.1405		444.8642	444.8642	0.0261		445.4121

Mitigated Construction On-Site

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

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	0.1276	0.3570	2.8436	5.6800e-003	0.5168	3.8700e-003	0.5206	0.1370	3.5400e-003	0.1405		444.8642	444.8642	0.0261		445.4121
Total	0.1276	0.3570	2.8436	5.6800e-003	0.5168	3.8700e-003	0.5206	0.1370	3.5400e-003	0.1405		444.8642	444.8642	0.0261		445.4121

3.4 WP Irrigation System Installation - 2017

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	1.6540	14.9603	9.9848	0.0126		1.1586	1.1586		1.0659	1.0659		1,289.3464	1,289.3464	0.3951		1,297.6425
Total	1.6540	14.9603	9.9848	0.0126		1.1586	1.1586		1.0659	1.0659		1,289.3464	1,289.3464	0.3951		1,297.6425

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	0.1276	0.3570	2.8436	5.6800e-003	0.5168	3.8700e-003	0.5206	0.1370	3.5400e-003	0.1405		444.8642	444.8642	0.0261		445.4121
Total	0.1276	0.3570	2.8436	5.6800e-003	0.5168	3.8700e-003	0.5206	0.1370	3.5400e-003	0.1405		444.8642	444.8642	0.0261		445.4121

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	1.6540	14.9603	9.9848	0.0126		1.1586	1.1586		1.0659	1.0659	0.0000	1,289.346 4	1,289.346 4	0.3951		1,297.642 5
Total	1.6540	14.9603	9.9848	0.0126		1.1586	1.1586		1.0659	1.0659	0.0000	1,289.346 4	1,289.346 4	0.3951		1,297.642 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	0.0000	0.0000	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	0.1276	0.3570	2.8436	5.6800e-003	0.5168	3.8700e-003	0.5206	0.1370	3.5400e-003	0.1405		444.8642	444.8642	0.0261		445.4121
Total	0.1276	0.3570	2.8436	5.6800e-003	0.5168	3.8700e-003	0.5206	0.1370	3.5400e-003	0.1405		444.8642	444.8642	0.0261		445.4121

3.5 WP Plantings - 2017

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	1.2011	11.4526	8.9249	0.0116		0.8671	0.8671		0.7978	0.7978		1,182.288 8	1,182.288 8	0.3623		1,189.896 0
Total	1.2011	11.4526	8.9249	0.0116		0.8671	0.8671		0.7978	0.7978		1,182.288 8	1,182.288 8	0.3623		1,189.896 0

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	0.0533	0.7424	0.5173	2.4000e-003	0.0721	0.0132	0.0853	0.0205	0.0121	0.0326		237.9605	237.9605	1.5500e-003		237.9932
Worker	0.1276	0.3570	2.8436	5.6800e-003	0.5168	3.8700e-003	0.5206	0.1370	3.5400e-003	0.1405		444.8642	444.8642	0.0261		445.4121
Total	0.1809	1.0994	3.3609	8.0800e-003	0.5888	0.0170	0.6059	0.1575	0.0157	0.1731		682.8247	682.8247	0.0276		683.4053

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	1.2011	11.4526	8.9249	0.0116		0.8671	0.8671		0.7978	0.7978	0.0000	1,182.2888	1,182.2888	0.3623		1,189.8960
Total	1.2011	11.4526	8.9249	0.0116		0.8671	0.8671		0.7978	0.7978	0.0000	1,182.2888	1,182.2888	0.3623		1,189.8960

Mitigated Construction Off-Site

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

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0533	0.7424	0.5173	2.4000e-003	0.0721	0.0132	0.0853	0.0205	0.0121	0.0326	237.9605	237.9605	1.5500e-003	237.9932	
Worker	0.1276	0.3570	2.8436	5.6800e-003	0.5168	3.8700e-003	0.5206	0.1370	3.5400e-003	0.1405	444.8642	444.8642	0.0261	445.4121	
Total	0.1809	1.0994	3.3609	8.0800e-003	0.5888	0.0170	0.6059	0.1575	0.0157	0.1731	682.8247	682.8247	0.0276	683.4053	

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Recreational	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
User Defined Recreational	10.52	10.52	10.52	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.400575	0.057455	0.217640	0.159866	0.073928	0.007831	0.015038	0.051979	0.001726	0.001142	0.007674	0.000820	0.004326

5.0 Energy Detail

4.4 Fleet Mix

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

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					
User Defined Recreational	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

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
User Defined Recreational	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	0.0000	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

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
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	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

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
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	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

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 Vegetation