

Creek Side Homes - Humboldt County, Annual

**Creek Side Homes  
Humboldt County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	64.00	Dwelling Unit	6.26	53,000.00	136
Congregate Care (Assisted Living)	100.00	Dwelling Unit	5.49	80,000.00	100
Condo/Townhouse	25.00	Dwelling Unit	4.23	19,000.00	33
City Park	1.56	Acre	1.56	3,500.00	0
User Defined Recreational	0.62	User Defined Unit	0.62	0.00	0
Other Asphalt Surfaces	0.14	Acre	0.14	0.00	0
Other Non-Asphalt Surfaces	0.45	Acre	0.45	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	103
<b>Climate Zone</b>	1			<b>Operational Year</b>	2021
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

**1.3 User Entered Comments & Non-Default Data**

Project Characteristics - The Utility Information does not take into account that the project will be automatically enrolled in the RCEA CCE Program which procures approximately 42 percent of its power from renewable and carbon-free sources.

Land Use - Lot ac. from Tent. Parcel Map. S.F. of structures from Site Plan. Population est. from Fiscal Impact Analysis. 1.56 ac. of park is from park in-lieu fees that will be paid by the applicant. Assumed park will have 3,500 s.f. of structures. User defined recreational is for 0.62 ac. of paved ped/bike trails. Other asphalt surfaces is for the extension of Foster Ave. Other non-asphalt surfaces is for the emergency access road.

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Construction Phase - Construction schedule assumes full buildout in 26 months. Number of construction days provided by applicant. Demolition is for removal of remaining mill structures. Site Prep-Grading also includes haz. materials remediation, Foster Ave. extension, park development, construction of wetland mitigation area, replacement of culverts, and stormwater features. Trenching is for extension of utilities. Paving also includes ped/bike trails and Foster Ave. extension.

Off-road Equipment - Trenching will involve the installation of utilities to serve the development. Assumed that 1 backhoe and 1 excavator will be required to complete this task within the 20 day period.

Off-road Equipment -

Grading - Assumed that the approximately 18.75 acre area would be passed over twice during site preparation. Based on site conditions and relatively flat topography, included 8,000 cy of import/export for grading.

Demolition - Demolition assumes 800 tons of debris which includes the removal of remnant structures from the former lumber mill site consisting primarily of concrete pads, a concrete ramp, metal, and other miscellaneous debris.

Architectural Coating -

Vehicle Trips - The Condo/Townhouses will be senior restricted neighborhood cottage units. As such the weekday trip rates for these units were reduced to 3.48 trips/day consistent with the Trip Generation Rates from the 8th Edition ITE Trip Generation Report for 'Elderly Housing - Attached.' Accordingly, the Sat. and Sun. trip rates for the Condo/Townhouses were also reduced by approximately 40%.

Vehicle Emission Factors -

Vehicle Emission Factors -

Area Coating -

Energy Use -

Sequestration - A minimum of 300 trees of various native and/or drought tolerant species would be planted throughout the residential development site (505-161-011).

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation - The City of Arcata Plaza and Downtown area is approximately 1 mile from the project site. The Arcata Transit Station is approximately 1.15 miles from the project site. The project will include sidewalks and trails within the project site and several ped/bike pathways that will connect the project site to the City's existing trail system, nearby neighborhoods, transit facilities, and the Downtown area.

Area Mitigation - No woodstoves or fireplaces are proposed for the residential units and assisted living facility. All units will have forced air gas or electric heating. Low VOC paints will be used for the project that have a maximum VOC standard of 50 g/L.

Energy Mitigation - The proposed project will be subject to City of Arcata Ordinance No. 1507 (Residential Reach Code) that requires new residential buildings to be designed and constructed to exceed minimum 2016 Title 24, Part 6 Building Energy Efficiency Standards by at least 20%.

Water Mitigation - The applicant proposes to install low flow plumbing fixtures in the proposed residential units and assisted living facility. To reduce outdoor water use for landscaping, it is proposed to install native and drought tolerant plant species that do not require irrigation at the assisted living facility and senior restricted cottage units.

Waste Mitigation - The development would include recycling services which is estimated to reduce solid waste generation by a minimum of 35%.

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Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialExteriorValue	250	50
tblAreaMitigation	UseLowVOCPaintResidentialInteriorValue	250	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	300.00	370.00
tblConstructionPhase	NumDays	30.00	70.00
tblConstructionPhase	NumDays	20.00	40.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	PhaseEndDate	4/30/2019	7/6/2021
tblConstructionPhase	PhaseEndDate	4/30/2019	3/2/2021
tblConstructionPhase	PhaseEndDate	4/30/2019	5/28/2019
tblConstructionPhase	PhaseEndDate	4/30/2019	10/1/2019
tblConstructionPhase	PhaseEndDate	4/30/2019	5/25/2021
tblConstructionPhase	PhaseEndDate	4/30/2019	6/25/2019
tblConstructionPhase	PhaseStartDate	5/1/2019	5/26/2021
tblConstructionPhase	PhaseStartDate	5/1/2019	10/2/2019
tblConstructionPhase	PhaseStartDate	5/1/2019	6/26/2019
tblConstructionPhase	PhaseStartDate	5/1/2019	3/31/2021
tblConstructionPhase	PhaseStartDate	5/1/2019	5/29/2019
tblGrading	AcresOfGrading	175.00	75.00
tblGrading	AcresOfGrading	0.00	37.50

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tblGrading	MaterialExported	0.00	8,000.00
tblGrading	MaterialImported	0.00	8,000.00
tblLandUse	BuildingSpaceSquareFeet	115,200.00	53,000.00
tblLandUse	BuildingSpaceSquareFeet	100,000.00	80,000.00
tblLandUse	BuildingSpaceSquareFeet	25,000.00	19,000.00
tblLandUse	BuildingSpaceSquareFeet	0.00	3,500.00
tblLandUse	BuildingSpaceSquareFeet	6,098.40	0.00
tblLandUse	BuildingSpaceSquareFeet	19,602.00	0.00
tblLandUse	GreenSpaceSquareFeet	67,953.60	0.00
tblLandUse	LandUseSquareFeet	115,200.00	53,000.00
tblLandUse	LandUseSquareFeet	100,000.00	80,000.00
tblLandUse	LandUseSquareFeet	25,000.00	19,000.00
tblLandUse	LandUseSquareFeet	67,953.60	3,500.00
tblLandUse	LandUseSquareFeet	6,098.40	0.00
tblLandUse	LandUseSquareFeet	19,602.00	0.00
tblLandUse	LotAcreage	20.78	6.26
tblLandUse	LotAcreage	6.25	5.49
tblLandUse	LotAcreage	1.56	4.23
tblLandUse	LotAcreage	0.00	0.62
tblLandUse	Population	183.00	136.00
tblLandUse	Population	286.00	100.00
tblLandUse	Population	72.00	33.00
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblProjectCharacteristics	OperationalYear	2018	2021
tblSequestration	NumberOfNewTrees	0.00	300.00
tblVehicleTrips	ST_TR	5.67	3.40

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tblVehicleTrips	SU_TR	4.84	2.90
tblVehicleTrips	WD_TR	5.81	3.48

**2.0 Emissions Summary**

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**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					
2019	0.3792	3.9179	2.5783	5.2300e-003	0.5188	0.1710	0.6898	0.2388	0.1585	0.3973	0.0000	472.8464	472.8464	0.1071	0.0000	475.5247
2020	0.4170	2.9924	3.2189	5.4900e-003	0.1338	0.1499	0.2837	0.0361	0.1410	0.1770	0.0000	483.8138	483.8138	0.0854	0.0000	485.9492
2021	2.5189	0.7736	0.9199	1.5300e-003	0.0273	0.0382	0.0655	7.3500e-003	0.0357	0.0430	0.0000	134.8185	134.8185	0.0296	0.0000	135.5592
<b>Maximum</b>	<b>2.5189</b>	<b>3.9179</b>	<b>3.2189</b>	<b>5.4900e-003</b>	<b>0.5188</b>	<b>0.1710</b>	<b>0.6898</b>	<b>0.2388</b>	<b>0.1585</b>	<b>0.3973</b>	<b>0.0000</b>	<b>483.8138</b>	<b>483.8138</b>	<b>0.1071</b>	<b>0.0000</b>	<b>485.9492</b>

**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					
2019	0.3792	3.9179	2.5783	5.2300e-003	0.2655	0.1710	0.4365	0.1161	0.1585	0.2746	0.0000	472.8460	472.8460	0.1071	0.0000	475.5243
2020	0.4170	2.9924	3.2189	5.4900e-003	0.1338	0.1499	0.2837	0.0361	0.1410	0.1770	0.0000	483.8135	483.8135	0.0854	0.0000	485.9489
2021	2.5189	0.7736	0.9199	1.5300e-003	0.0273	0.0382	0.0655	7.3500e-003	0.0357	0.0430	0.0000	134.8184	134.8184	0.0296	0.0000	135.5591
<b>Maximum</b>	<b>2.5189</b>	<b>3.9179</b>	<b>3.2189</b>	<b>5.4900e-003</b>	<b>0.2655</b>	<b>0.1710</b>	<b>0.4365</b>	<b>0.1161</b>	<b>0.1585</b>	<b>0.2746</b>	<b>0.0000</b>	<b>483.8135</b>	<b>483.8135</b>	<b>0.1071</b>	<b>0.0000</b>	<b>485.9489</b>

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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	37.26	0.00	24.38	43.46	0.00	19.87	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-1-2019	7-31-2019	1.8125	1.8125
2	8-1-2019	10-31-2019	1.8610	1.8610
3	11-1-2019	1-31-2020	0.9200	0.9200
4	2-1-2020	4-30-2020	0.8400	0.8400
5	5-1-2020	7-31-2020	0.8505	0.8505
6	8-1-2020	10-31-2020	0.8546	0.8546
7	11-1-2020	1-31-2021	0.8368	0.8368
8	2-1-2021	4-30-2021	0.4609	0.4609
9	5-1-2021	7-31-2021	2.5776	2.5776
		Highest	2.5776	2.5776

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**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	12.7508	0.2478	16.0451	0.0266		2.0602	2.0602		2.0602	2.0602	195.2290	84.1686	279.3976	0.1824	0.0154	288.5334
Energy	8.6400e-003	0.0738	0.0314	4.7000e-004		5.9700e-003	5.9700e-003		5.9700e-003	5.9700e-003	0.0000	449.6186	449.6186	0.0181	4.9700e-003	451.5534
Mobile	0.5444	3.0596	6.4058	0.0141	1.0036	0.0199	1.0235	0.2705	0.0188	0.2894	0.0000	1,286.728 2	1,286.728 2	0.0743	0.0000	1,288.585 8
Waste						0.0000	0.0000		0.0000	0.0000	33.0307	0.0000	33.0307	1.9521	0.0000	81.8321
Water						0.0000	0.0000		0.0000	0.0000	3.9067	29.1809	33.0876	0.4026	9.7500e-003	46.0567
<b>Total</b>	<b>13.3039</b>	<b>3.3813</b>	<b>22.4823</b>	<b>0.0411</b>	<b>1.0036</b>	<b>2.0862</b>	<b>3.0897</b>	<b>0.2705</b>	<b>2.0851</b>	<b>2.3556</b>	<b>232.1664</b>	<b>1,849.696 3</b>	<b>2,081.862 7</b>	<b>2.6294</b>	<b>0.0301</b>	<b>2,156.561 4</b>



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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6983	0.0162	1.4064	7.0000e-005		7.7500e-003	7.7500e-003		7.7500e-003	7.7500e-003	0.0000	2.2924	2.2924	2.2200e-003	0.0000	2.3479
Energy	7.2400e-003	0.0618	0.0263	3.9000e-004		5.0000e-003	5.0000e-003		5.0000e-003	5.0000e-003	0.0000	424.6011	424.6011	0.0173	4.6200e-003	426.4097
Mobile	0.5192	2.8188	5.8566	0.0125	0.8852	0.0178	0.9030	0.2386	0.0168	0.2555	0.0000	1,147.4679	1,147.4679	0.0684	0.0000	1,149.1789
Waste						0.0000	0.0000		0.0000	0.0000	21.4700	0.0000	21.4700	1.2688	0.0000	53.1909
Water						0.0000	0.0000		0.0000	0.0000	3.1254	24.7065	27.8319	0.3221	7.8100e-003	38.2125
<b>Total</b>	<b>1.2248</b>	<b>2.8969</b>	<b>7.2893</b>	<b>0.0130</b>	<b>0.8852</b>	<b>0.0306</b>	<b>0.9157</b>	<b>0.2386</b>	<b>0.0296</b>	<b>0.2682</b>	<b>24.5953</b>	<b>1,599.0679</b>	<b>1,623.6632</b>	<b>1.6790</b>	<b>0.0124</b>	<b>1,669.3399</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>90.79</b>	<b>14.33</b>	<b>67.58</b>	<b>68.39</b>	<b>11.80</b>	<b>98.53</b>	<b>70.36</b>	<b>11.80</b>	<b>98.58</b>	<b>88.61</b>	<b>89.41</b>	<b>13.55</b>	<b>22.01</b>	<b>36.15</b>	<b>58.68</b>	<b>22.59</b>

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**2.3 Vegetation**

Vegetation

	CO2e
Category	MT
New Trees	212.4000
<b>Total</b>	<b>212.4000</b>

**3.0 Construction Detail**

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	5/26/2021	7/6/2021	5	30	
2	Building Construction	Building Construction	10/2/2019	3/2/2021	5	370	
3	Demolition	Demolition	5/1/2019	5/28/2019	5	20	
4	Grading	Grading	6/26/2019	10/1/2019	5	70	
5	Paving	Paving	3/31/2021	5/25/2021	5	40	
6	Site Preparation	Site Preparation	5/29/2019	6/25/2019	5	20	
7	Trenching	Trenching	3/3/2021	3/30/2021	5	20	

**Acres of Grading (Site Preparation Phase): 37.5**

**Acres of Grading (Grading Phase): 75**

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**Acres of Paving: 0.59**

**Residential Indoor: 307,800; Residential Outdoor: 102,600; Non-Residential Indoor: 5,250; Non-Residential Outdoor: 1,750; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45
Trenching	Excavators	1	8.00	158	0.38
Trenching	Tractors/Loaders/Backhoes	1	8.00	97	0.37

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**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	23.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	115.00	21.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	79.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	2,000.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Trenching	2	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

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**3.2 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.4183					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2800e-003	0.0229	0.0273	4.0000e-005		1.4100e-003	1.4100e-003		1.4100e-003	1.4100e-003	0.0000	3.8299	3.8299	2.6000e-004	0.0000	3.8365
<b>Total</b>	<b>2.4216</b>	<b>0.0229</b>	<b>0.0273</b>	<b>4.0000e-005</b>		<b>1.4100e-003</b>	<b>1.4100e-003</b>		<b>1.4100e-003</b>	<b>1.4100e-003</b>	<b>0.0000</b>	<b>3.8299</b>	<b>3.8299</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>3.8365</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-003	2.3200e-003	0.0188	3.0000e-005	2.6600e-003	3.0000e-005	2.6900e-003	7.1000e-004	2.0000e-005	7.3000e-004	0.0000	2.3932	2.3932	1.6000e-004	0.0000	2.3972
<b>Total</b>	<b>2.7000e-003</b>	<b>2.3200e-003</b>	<b>0.0188</b>	<b>3.0000e-005</b>	<b>2.6600e-003</b>	<b>3.0000e-005</b>	<b>2.6900e-003</b>	<b>7.1000e-004</b>	<b>2.0000e-005</b>	<b>7.3000e-004</b>	<b>0.0000</b>	<b>2.3932</b>	<b>2.3932</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>2.3972</b>

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**3.2 Architectural Coating - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	2.4183					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2800e-003	0.0229	0.0273	4.0000e-005		1.4100e-003	1.4100e-003		1.4100e-003	1.4100e-003	0.0000	3.8299	3.8299	2.6000e-004	0.0000	3.8365
<b>Total</b>	<b>2.4216</b>	<b>0.0229</b>	<b>0.0273</b>	<b>4.0000e-005</b>		<b>1.4100e-003</b>	<b>1.4100e-003</b>		<b>1.4100e-003</b>	<b>1.4100e-003</b>	<b>0.0000</b>	<b>3.8299</b>	<b>3.8299</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>3.8365</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.7000e-003	2.3200e-003	0.0188	3.0000e-005	2.6600e-003	3.0000e-005	2.6900e-003	7.1000e-004	2.0000e-005	7.3000e-004	0.0000	2.3932	2.3932	1.6000e-004	0.0000	2.3972
<b>Total</b>	<b>2.7000e-003</b>	<b>2.3200e-003</b>	<b>0.0188</b>	<b>3.0000e-005</b>	<b>2.6600e-003</b>	<b>3.0000e-005</b>	<b>2.6900e-003</b>	<b>7.1000e-004</b>	<b>2.0000e-005</b>	<b>7.3000e-004</b>	<b>0.0000</b>	<b>2.3932</b>	<b>2.3932</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>2.3972</b>

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**3.3 Building Construction - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0767	0.6851	0.5578	8.7000e-004		0.0419	0.0419		0.0394	0.0394	0.0000	76.4089	76.4089	0.0186	0.0000	76.8742
<b>Total</b>	<b>0.0767</b>	<b>0.6851</b>	<b>0.5578</b>	<b>8.7000e-004</b>		<b>0.0419</b>	<b>0.0419</b>		<b>0.0394</b>	<b>0.0394</b>	<b>0.0000</b>	<b>76.4089</b>	<b>76.4089</b>	<b>0.0186</b>	<b>0.0000</b>	<b>76.8742</b>

**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	4.9700e-003	0.1012	0.0307	1.9000e-004	4.3800e-003	9.7000e-004	5.3400e-003	1.2700e-003	9.3000e-004	2.1900e-003	0.0000	18.1202	18.1202	1.0000e-003	0.0000	18.1452
Worker	0.0323	0.0303	0.2469	3.1000e-004	0.0288	3.1000e-004	0.0291	7.6800e-003	2.9000e-004	7.9700e-003	0.0000	27.3527	27.3527	2.1500e-003	0.0000	27.4063
<b>Total</b>	<b>0.0373</b>	<b>0.1316</b>	<b>0.2776</b>	<b>5.0000e-004</b>	<b>0.0332</b>	<b>1.2800e-003</b>	<b>0.0345</b>	<b>8.9500e-003</b>	<b>1.2200e-003</b>	<b>0.0102</b>	<b>0.0000</b>	<b>45.4728</b>	<b>45.4728</b>	<b>3.1500e-003</b>	<b>0.0000</b>	<b>45.5516</b>

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**3.3 Building Construction - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0767	0.6851	0.5578	8.7000e-004		0.0419	0.0419		0.0394	0.0394	0.0000	76.4088	76.4088	0.0186	0.0000	76.8741
<b>Total</b>	<b>0.0767</b>	<b>0.6851</b>	<b>0.5578</b>	<b>8.7000e-004</b>		<b>0.0419</b>	<b>0.0419</b>		<b>0.0394</b>	<b>0.0394</b>	<b>0.0000</b>	<b>76.4088</b>	<b>76.4088</b>	<b>0.0186</b>	<b>0.0000</b>	<b>76.8741</b>

**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	4.9700e-003	0.1012	0.0307	1.9000e-004	4.3800e-003	9.7000e-004	5.3400e-003	1.2700e-003	9.3000e-004	2.1900e-003	0.0000	18.1202	18.1202	1.0000e-003	0.0000	18.1452
Worker	0.0323	0.0303	0.2469	3.1000e-004	0.0288	3.1000e-004	0.0291	7.6800e-003	2.9000e-004	7.9700e-003	0.0000	27.3527	27.3527	2.1500e-003	0.0000	27.4063
<b>Total</b>	<b>0.0373</b>	<b>0.1316</b>	<b>0.2776</b>	<b>5.0000e-004</b>	<b>0.0332</b>	<b>1.2800e-003</b>	<b>0.0345</b>	<b>8.9500e-003</b>	<b>1.2200e-003</b>	<b>0.0102</b>	<b>0.0000</b>	<b>45.4728</b>	<b>45.4728</b>	<b>3.1500e-003</b>	<b>0.0000</b>	<b>45.5516</b>



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**3.3 Building Construction - 2020**

**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	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4091	303.4091	0.0740	0.0000	305.2596
<b>Total</b>	<b>0.2777</b>	<b>2.5134</b>	<b>2.2072</b>	<b>3.5300e-003</b>		<b>0.1463</b>	<b>0.1463</b>		<b>0.1376</b>	<b>0.1376</b>	<b>0.0000</b>	<b>303.4091</b>	<b>303.4091</b>	<b>0.0740</b>	<b>0.0000</b>	<b>305.2596</b>

**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	0.0157	0.3678	0.1048	7.7000e-004	0.0176	2.3700e-003	0.0200	5.1100e-003	2.2700e-003	7.3800e-003	0.0000	72.9182	72.9182	3.6200e-003	0.0000	73.0087
Worker	0.1236	0.1113	0.9069	1.2000e-003	0.1162	1.1900e-003	0.1174	0.0310	1.1000e-003	0.0321	0.0000	107.4865	107.4865	7.7800e-003	0.0000	107.6809
<b>Total</b>	<b>0.1393</b>	<b>0.4790</b>	<b>1.0117</b>	<b>1.9700e-003</b>	<b>0.1338</b>	<b>3.5600e-003</b>	<b>0.1374</b>	<b>0.0361</b>	<b>3.3700e-003</b>	<b>0.0395</b>	<b>0.0000</b>	<b>180.4047</b>	<b>180.4047</b>	<b>0.0114</b>	<b>0.0000</b>	<b>180.6896</b>

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**3.3 Building Construction - 2020**

**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	0.2777	2.5134	2.2072	3.5300e-003		0.1463	0.1463		0.1376	0.1376	0.0000	303.4087	303.4087	0.0740	0.0000	305.2592
<b>Total</b>	<b>0.2777</b>	<b>2.5134</b>	<b>2.2072</b>	<b>3.5300e-003</b>		<b>0.1463</b>	<b>0.1463</b>		<b>0.1376</b>	<b>0.1376</b>	<b>0.0000</b>	<b>303.4087</b>	<b>303.4087</b>	<b>0.0740</b>	<b>0.0000</b>	<b>305.2592</b>

**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	0.0157	0.3678	0.1048	7.7000e-004	0.0176	2.3700e-003	0.0200	5.1100e-003	2.2700e-003	7.3800e-003	0.0000	72.9182	72.9182	3.6200e-003	0.0000	73.0087
Worker	0.1236	0.1113	0.9069	1.2000e-003	0.1162	1.1900e-003	0.1174	0.0310	1.1000e-003	0.0321	0.0000	107.4865	107.4865	7.7800e-003	0.0000	107.6809
<b>Total</b>	<b>0.1393</b>	<b>0.4790</b>	<b>1.0117</b>	<b>1.9700e-003</b>	<b>0.1338</b>	<b>3.5600e-003</b>	<b>0.1374</b>	<b>0.0361</b>	<b>3.3700e-003</b>	<b>0.0395</b>	<b>0.0000</b>	<b>180.4047</b>	<b>180.4047</b>	<b>0.0114</b>	<b>0.0000</b>	<b>180.6896</b>

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**3.3 Building Construction - 2021**

**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	0.0409	0.3748	0.3564	5.8000e-004		0.0206	0.0206		0.0194	0.0194	0.0000	49.8020	49.8020	0.0120	0.0000	50.1024
<b>Total</b>	<b>0.0409</b>	<b>0.3748</b>	<b>0.3564</b>	<b>5.8000e-004</b>		<b>0.0206</b>	<b>0.0206</b>		<b>0.0194</b>	<b>0.0194</b>	<b>0.0000</b>	<b>49.8020</b>	<b>49.8020</b>	<b>0.0120</b>	<b>0.0000</b>	<b>50.1024</b>

**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	2.2000e-003	0.0557	0.0150	1.3000e-004	2.8900e-003	2.4000e-004	3.1300e-003	8.4000e-004	2.3000e-004	1.0600e-003	0.0000	11.9004	11.9004	5.7000e-004	0.0000	11.9147
Worker	0.0193	0.0166	0.1350	1.9000e-004	0.0191	1.9000e-004	0.0193	5.0800e-003	1.7000e-004	5.2500e-003	0.0000	17.1510	17.1510	1.1500e-003	0.0000	17.1797
<b>Total</b>	<b>0.0215</b>	<b>0.0723</b>	<b>0.1500</b>	<b>3.2000e-004</b>	<b>0.0220</b>	<b>4.3000e-004</b>	<b>0.0224</b>	<b>5.9200e-003</b>	<b>4.0000e-004</b>	<b>6.3100e-003</b>	<b>0.0000</b>	<b>29.0513</b>	<b>29.0513</b>	<b>1.7200e-003</b>	<b>0.0000</b>	<b>29.0944</b>

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**3.3 Building Construction - 2021**

**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	0.0409	0.3748	0.3564	5.8000e-004		0.0206	0.0206		0.0194	0.0194	0.0000	49.8020	49.8020	0.0120	0.0000	50.1023
<b>Total</b>	<b>0.0409</b>	<b>0.3748</b>	<b>0.3564</b>	<b>5.8000e-004</b>		<b>0.0206</b>	<b>0.0206</b>		<b>0.0194</b>	<b>0.0194</b>	<b>0.0000</b>	<b>49.8020</b>	<b>49.8020</b>	<b>0.0120</b>	<b>0.0000</b>	<b>50.1023</b>

**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	2.2000e-003	0.0557	0.0150	1.3000e-004	2.8900e-003	2.4000e-004	3.1300e-003	8.4000e-004	2.3000e-004	1.0600e-003	0.0000	11.9004	11.9004	5.7000e-004	0.0000	11.9147
Worker	0.0193	0.0166	0.1350	1.9000e-004	0.0191	1.9000e-004	0.0193	5.0800e-003	1.7000e-004	5.2500e-003	0.0000	17.1510	17.1510	1.1500e-003	0.0000	17.1797
<b>Total</b>	<b>0.0215</b>	<b>0.0723</b>	<b>0.1500</b>	<b>3.2000e-004</b>	<b>0.0220</b>	<b>4.3000e-004</b>	<b>0.0224</b>	<b>5.9200e-003</b>	<b>4.0000e-004</b>	<b>6.3100e-003</b>	<b>0.0000</b>	<b>29.0513</b>	<b>29.0513</b>	<b>1.7200e-003</b>	<b>0.0000</b>	<b>29.0944</b>

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**3.4 Demolition - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					8.5600e-003	0.0000	8.5600e-003	1.3000e-003	0.0000	1.3000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0351	0.3578	0.2206	3.9000e-004		0.0180	0.0180		0.0167	0.0167	0.0000	34.6263	34.6263	9.6300e-003	0.0000	34.8672
<b>Total</b>	<b>0.0351</b>	<b>0.3578</b>	<b>0.2206</b>	<b>3.9000e-004</b>	<b>8.5600e-003</b>	<b>0.0180</b>	<b>0.0265</b>	<b>1.3000e-003</b>	<b>0.0167</b>	<b>0.0180</b>	<b>0.0000</b>	<b>34.6263</b>	<b>34.6263</b>	<b>9.6300e-003</b>	<b>0.0000</b>	<b>34.8672</b>

**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	4.5000e-004	0.0141	2.4800e-003	3.0000e-005	6.5000e-004	9.0000e-005	7.4000e-004	1.8000e-004	9.0000e-005	2.7000e-004	0.0000	3.0277	3.0277	1.0000e-004	0.0000	3.0302
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	1.3000e-003	1.2200e-003	9.9100e-003	1.0000e-005	1.1600e-003	1.0000e-005	1.1700e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0978	1.0978	9.0000e-005	0.0000	1.0999
<b>Total</b>	<b>1.7500e-003</b>	<b>0.0153</b>	<b>0.0124</b>	<b>4.0000e-005</b>	<b>1.8100e-003</b>	<b>1.0000e-004</b>	<b>1.9100e-003</b>	<b>4.9000e-004</b>	<b>1.0000e-004</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>4.1254</b>	<b>4.1254</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>4.1301</b>

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**3.4 Demolition - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.8500e-003	0.0000	3.8500e-003	5.8000e-004	0.0000	5.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0351	0.3578	0.2206	3.9000e-004		0.0180	0.0180		0.0167	0.0167	0.0000	34.6263	34.6263	9.6300e-003	0.0000	34.8671
<b>Total</b>	<b>0.0351</b>	<b>0.3578</b>	<b>0.2206</b>	<b>3.9000e-004</b>	<b>3.8500e-003</b>	<b>0.0180</b>	<b>0.0218</b>	<b>5.8000e-004</b>	<b>0.0167</b>	<b>0.0173</b>	<b>0.0000</b>	<b>34.6263</b>	<b>34.6263</b>	<b>9.6300e-003</b>	<b>0.0000</b>	<b>34.8671</b>

**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	4.5000e-004	0.0141	2.4800e-003	3.0000e-005	6.5000e-004	9.0000e-005	7.4000e-004	1.8000e-004	9.0000e-005	2.7000e-004	0.0000	3.0277	3.0277	1.0000e-004	0.0000	3.0302
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	1.3000e-003	1.2200e-003	9.9100e-003	1.0000e-005	1.1600e-003	1.0000e-005	1.1700e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0978	1.0978	9.0000e-005	0.0000	1.0999
<b>Total</b>	<b>1.7500e-003</b>	<b>0.0153</b>	<b>0.0124</b>	<b>4.0000e-005</b>	<b>1.8100e-003</b>	<b>1.0000e-004</b>	<b>1.9100e-003</b>	<b>4.9000e-004</b>	<b>1.0000e-004</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>4.1254</b>	<b>4.1254</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>4.1301</b>

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**3.5 Grading - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2515	0.0000	0.2515	0.1203	0.0000	0.1203	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1659	1.9082	1.1682	2.1700e-003		0.0834	0.0834		0.0767	0.0767	0.0000	194.9546	194.9546	0.0617	0.0000	196.4967
<b>Total</b>	<b>0.1659</b>	<b>1.9082</b>	<b>1.1682</b>	<b>2.1700e-003</b>	<b>0.2515</b>	<b>0.0834</b>	<b>0.3348</b>	<b>0.1203</b>	<b>0.0767</b>	<b>0.1970</b>	<b>0.0000</b>	<b>194.9546</b>	<b>194.9546</b>	<b>0.0617</b>	<b>0.0000</b>	<b>196.4967</b>

**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	0.0114	0.3571	0.0629	8.1000e-004	0.0165	2.3500e-003	0.0188	4.5200e-003	2.2500e-003	6.7800e-003	0.0000	76.6494	76.6494	2.5500e-003	0.0000	76.7132
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	5.6800e-003	0.0462	6.0000e-005	5.4000e-003	6.0000e-005	5.4600e-003	1.4400e-003	5.0000e-005	1.4900e-003	0.0000	5.1229	5.1229	4.0000e-004	0.0000	5.1330
<b>Total</b>	<b>0.0175</b>	<b>0.3628</b>	<b>0.1091</b>	<b>8.7000e-004</b>	<b>0.0219</b>	<b>2.4100e-003</b>	<b>0.0243</b>	<b>5.9600e-003</b>	<b>2.3000e-003</b>	<b>8.2700e-003</b>	<b>0.0000</b>	<b>81.7723</b>	<b>81.7723</b>	<b>2.9500e-003</b>	<b>0.0000</b>	<b>81.8462</b>

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**3.5 Grading - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1132	0.0000	0.1132	0.0541	0.0000	0.0541	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1659	1.9082	1.1682	2.1700e-003		0.0834	0.0834		0.0767	0.0767	0.0000	194.9544	194.9544	0.0617	0.0000	196.4964
<b>Total</b>	<b>0.1659</b>	<b>1.9082</b>	<b>1.1682</b>	<b>2.1700e-003</b>	<b>0.1132</b>	<b>0.0834</b>	<b>0.1965</b>	<b>0.0541</b>	<b>0.0767</b>	<b>0.1309</b>	<b>0.0000</b>	<b>194.9544</b>	<b>194.9544</b>	<b>0.0617</b>	<b>0.0000</b>	<b>196.4964</b>

**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	0.0114	0.3571	0.0629	8.1000e-004	0.0165	2.3500e-003	0.0188	4.5200e-003	2.2500e-003	6.7800e-003	0.0000	76.6494	76.6494	2.5500e-003	0.0000	76.7132
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	5.6800e-003	0.0462	6.0000e-005	5.4000e-003	6.0000e-005	5.4600e-003	1.4400e-003	5.0000e-005	1.4900e-003	0.0000	5.1229	5.1229	4.0000e-004	0.0000	5.1330
<b>Total</b>	<b>0.0175</b>	<b>0.3628</b>	<b>0.1091</b>	<b>8.7000e-004</b>	<b>0.0219</b>	<b>2.4100e-003</b>	<b>0.0243</b>	<b>5.9600e-003</b>	<b>2.3000e-003</b>	<b>8.2700e-003</b>	<b>0.0000</b>	<b>81.7723</b>	<b>81.7723</b>	<b>2.9500e-003</b>	<b>0.0000</b>	<b>81.8462</b>



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**3.6 Paving - 2021**

**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	0.0251	0.2584	0.2931	4.6000e-004		0.0136	0.0136		0.0125	0.0125	0.0000	40.0470	40.0470	0.0130	0.0000	40.3708
Paving	1.8000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0253</b>	<b>0.2584</b>	<b>0.2931</b>	<b>4.6000e-004</b>		<b>0.0136</b>	<b>0.0136</b>		<b>0.0125</b>	<b>0.0125</b>	<b>0.0000</b>	<b>40.0470</b>	<b>40.0470</b>	<b>0.0130</b>	<b>0.0000</b>	<b>40.3708</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3500e-003	2.0100e-003	0.0164	2.0000e-005	2.3100e-003	2.0000e-005	2.3400e-003	6.2000e-004	2.0000e-005	6.4000e-004	0.0000	2.0810	2.0810	1.4000e-004	0.0000	2.0845
<b>Total</b>	<b>2.3500e-003</b>	<b>2.0100e-003</b>	<b>0.0164</b>	<b>2.0000e-005</b>	<b>2.3100e-003</b>	<b>2.0000e-005</b>	<b>2.3400e-003</b>	<b>6.2000e-004</b>	<b>2.0000e-005</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>2.0810</b>	<b>2.0810</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>2.0845</b>

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**3.6 Paving - 2021**

**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	0.0251	0.2584	0.2931	4.6000e-004		0.0136	0.0136		0.0125	0.0125	0.0000	40.0469	40.0469	0.0130	0.0000	40.3707
Paving	1.8000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0253</b>	<b>0.2584</b>	<b>0.2931</b>	<b>4.6000e-004</b>		<b>0.0136</b>	<b>0.0136</b>		<b>0.0125</b>	<b>0.0125</b>	<b>0.0000</b>	<b>40.0469</b>	<b>40.0469</b>	<b>0.0130</b>	<b>0.0000</b>	<b>40.3707</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.3500e-003	2.0100e-003	0.0164	2.0000e-005	2.3100e-003	2.0000e-005	2.3400e-003	6.2000e-004	2.0000e-005	6.4000e-004	0.0000	2.0810	2.0810	1.4000e-004	0.0000	2.0845
<b>Total</b>	<b>2.3500e-003</b>	<b>2.0100e-003</b>	<b>0.0164</b>	<b>2.0000e-005</b>	<b>2.3100e-003</b>	<b>2.0000e-005</b>	<b>2.3400e-003</b>	<b>6.2000e-004</b>	<b>2.0000e-005</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>2.0810</b>	<b>2.0810</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>2.0845</b>

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**3.7 Site Preparation - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2006	0.0000	0.2006	0.1015	0.0000	0.1015	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0434	0.4557	0.2206	3.8000e-004		0.0239	0.0239		0.0220	0.0220	0.0000	34.1687	34.1687	0.0108	0.0000	34.4390
<b>Total</b>	<b>0.0434</b>	<b>0.4557</b>	<b>0.2206</b>	<b>3.8000e-004</b>	<b>0.2006</b>	<b>0.0239</b>	<b>0.2245</b>	<b>0.1015</b>	<b>0.0220</b>	<b>0.1234</b>	<b>0.0000</b>	<b>34.1687</b>	<b>34.1687</b>	<b>0.0108</b>	<b>0.0000</b>	<b>34.4390</b>

**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	1.5600e-003	1.4600e-003	0.0119	1.0000e-005	1.3900e-003	2.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.3173	1.3173	1.0000e-004	0.0000	1.3199
<b>Total</b>	<b>1.5600e-003</b>	<b>1.4600e-003</b>	<b>0.0119</b>	<b>1.0000e-005</b>	<b>1.3900e-003</b>	<b>2.0000e-005</b>	<b>1.4000e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>1.3173</b>	<b>1.3173</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.3199</b>

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**3.7 Site Preparation - 2019**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0457	0.0000	0.0457	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0434	0.4557	0.2206	3.8000e-004		0.0239	0.0239		0.0220	0.0220	0.0000	34.1687	34.1687	0.0108	0.0000	34.4389
<b>Total</b>	<b>0.0434</b>	<b>0.4557</b>	<b>0.2206</b>	<b>3.8000e-004</b>	<b>0.0903</b>	<b>0.0239</b>	<b>0.1142</b>	<b>0.0457</b>	<b>0.0220</b>	<b>0.0676</b>	<b>0.0000</b>	<b>34.1687</b>	<b>34.1687</b>	<b>0.0108</b>	<b>0.0000</b>	<b>34.4389</b>

**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	1.5600e-003	1.4600e-003	0.0119	1.0000e-005	1.3900e-003	2.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.3173	1.3173	1.0000e-004	0.0000	1.3199
<b>Total</b>	<b>1.5600e-003</b>	<b>1.4600e-003</b>	<b>0.0119</b>	<b>1.0000e-005</b>	<b>1.3900e-003</b>	<b>2.0000e-005</b>	<b>1.4000e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>0.0000</b>	<b>1.3173</b>	<b>1.3173</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.3199</b>

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**3.8 Trenching - 2021**

**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	4.1600e-003	0.0405	0.0553	8.0000e-005		2.1600e-003	2.1600e-003		1.9900e-003	1.9900e-003	0.0000	7.2674	7.2674	2.3500e-003	0.0000	7.3262
<b>Total</b>	<b>4.1600e-003</b>	<b>0.0405</b>	<b>0.0553</b>	<b>8.0000e-005</b>		<b>2.1600e-003</b>	<b>2.1600e-003</b>		<b>1.9900e-003</b>	<b>1.9900e-003</b>	<b>0.0000</b>	<b>7.2674</b>	<b>7.2674</b>	<b>2.3500e-003</b>	<b>0.0000</b>	<b>7.3262</b>

**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	3.9000e-004	3.4000e-004	2.7300e-003	0.0000	3.9000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.3468	0.3468	2.0000e-005	0.0000	0.3474
<b>Total</b>	<b>3.9000e-004</b>	<b>3.4000e-004</b>	<b>2.7300e-003</b>	<b>0.0000</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>3.9000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.3468</b>	<b>0.3468</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3474</b>

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**3.8 Trenching - 2021**

**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	4.1600e-003	0.0405	0.0553	8.0000e-005		2.1600e-003	2.1600e-003		1.9900e-003	1.9900e-003	0.0000	7.2674	7.2674	2.3500e-003	0.0000	7.3261
<b>Total</b>	<b>4.1600e-003</b>	<b>0.0405</b>	<b>0.0553</b>	<b>8.0000e-005</b>		<b>2.1600e-003</b>	<b>2.1600e-003</b>		<b>1.9900e-003</b>	<b>1.9900e-003</b>	<b>0.0000</b>	<b>7.2674</b>	<b>7.2674</b>	<b>2.3500e-003</b>	<b>0.0000</b>	<b>7.3261</b>

**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	3.9000e-004	3.4000e-004	2.7300e-003	0.0000	3.9000e-004	0.0000	3.9000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.3468	0.3468	2.0000e-005	0.0000	0.3474
<b>Total</b>	<b>3.9000e-004</b>	<b>3.4000e-004</b>	<b>2.7300e-003</b>	<b>0.0000</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>3.9000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>0.3468</b>	<b>0.3468</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.3474</b>

**4.0 Operational Detail - Mobile**

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Creek Side Homes - Humboldt County, Annual

**4.1 Mitigation Measures Mobile**

Improve Destination Accessibility

Increase Transit Accessibility

Improve Pedestrian Network

	ROG	NOx	CO	SO2	Fugitive 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	0.5192	2.8188	5.8566	0.0125	0.8852	0.0178	0.9030	0.2386	0.0168	0.2555	0.0000	1,147.4679	1,147.4679	0.0684	0.0000	1,149.1789
Unmitigated	0.5444	3.0596	6.4058	0.0141	1.0036	0.0199	1.0235	0.2705	0.0188	0.2894	0.0000	1,286.7282	1,286.7282	0.0743	0.0000	1,288.5858

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	2.95	35.49	26.11	23,284	20,537
Condo/Townhouse	87.00	85.00	72.50	242,269	213,681
Congregate Care (Assisted Living)	274.00	220.00	244.00	749,909	661,420
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	609.28	634.24	551.68	1,730,565	1,526,358
User Defined Recreational	0.00	0.00	0.00		
<b>Total</b>	<b>973.23</b>	<b>974.73</b>	<b>894.29</b>	<b>2,746,027</b>	<b>2,421,996</b>

**4.3 Trip Type Information**

Creek Side Homes - Humboldt County, Annual

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
Condo/Townhouse	10.80	7.30	7.50	42.30	19.60	38.10	86	11	3
Congregate Care (Assisted Living)	10.80	7.30	7.50	42.30	19.60	38.10	86	11	3
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Single Family Housing	10.80	7.30	7.50	42.30	19.60	38.10	86	11	3
User Defined Recreational	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.479770	0.048374	0.208987	0.137651	0.044565	0.007238	0.014792	0.045519	0.003292	0.001618	0.005746	0.001515	0.000933
Congregate Care (Assisted Living)	0.479770	0.048374	0.208987	0.137651	0.044565	0.007238	0.014792	0.045519	0.003292	0.001618	0.005746	0.001515	0.000933
Condo/Townhouse	0.479770	0.048374	0.208987	0.137651	0.044565	0.007238	0.014792	0.045519	0.003292	0.001618	0.005746	0.001515	0.000933
City Park	0.479770	0.048374	0.208987	0.137651	0.044565	0.007238	0.014792	0.045519	0.003292	0.001618	0.005746	0.001515	0.000933
User Defined Recreational	0.479770	0.048374	0.208987	0.137651	0.044565	0.007238	0.014792	0.045519	0.003292	0.001618	0.005746	0.001515	0.000933
Other Asphalt Surfaces	0.479770	0.048374	0.208987	0.137651	0.044565	0.007238	0.014792	0.045519	0.003292	0.001618	0.005746	0.001515	0.000933
Other Non-Asphalt Surfaces	0.479770	0.048374	0.208987	0.137651	0.044565	0.007238	0.014792	0.045519	0.003292	0.001618	0.005746	0.001515	0.000933

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24



Creek Side Homes - Humboldt County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated							0.0000	0.0000		0.0000	0.0000	352.9945	352.9945	0.0160	3.3000e-003	354.3777
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	364.1422	364.1422	0.0165	3.4100e-003	365.5691
NaturalGas Mitigated	7.2400e-003	0.0618	0.0263	3.9000e-004		5.0000e-003	5.0000e-003		5.0000e-003	5.0000e-003	0.0000	71.6065	71.6065	1.3700e-003	1.3100e-003	72.0321
NaturalGas Unmitigated	8.6400e-003	0.0738	0.0314	4.7000e-004		5.9700e-003	5.9700e-003		5.9700e-003	5.9700e-003	0.0000	85.4764	85.4764	1.6400e-003	1.5700e-003	85.9843

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**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					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	157028	8.5000e-004	7.2400e-003	3.0800e-003	5.0000e-005		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	8.3796	8.3796	1.6000e-004	1.5000e-004	8.4294
Congregate Care (Assisted Living)	490352	2.6400e-003	0.0226	9.6100e-003	1.4000e-004		1.8300e-003	1.8300e-003		1.8300e-003	1.8300e-003	0.0000	26.1671	26.1671	5.0000e-004	4.8000e-004	26.3226
Other 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	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	0.0000
Single Family Housing	954387	5.1500e-003	0.0440	0.0187	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003	0.0000	50.9297	50.9297	9.8000e-004	9.3000e-004	51.2324
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
<b>Total</b>		<b>8.6400e-003</b>	<b>0.0738</b>	<b>0.0314</b>	<b>4.7000e-004</b>		<b>5.9800e-003</b>	<b>5.9800e-003</b>		<b>5.9800e-003</b>	<b>5.9800e-003</b>	<b>0.0000</b>	<b>85.4764</b>	<b>85.4764</b>	<b>1.6400e-003</b>	<b>1.5600e-003</b>	<b>85.9843</b>

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**5.2 Energy by Land Use - Natural Gas**

**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	tons/yr										MT/yr					
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	133617	7.2000e-004	6.1600e-003	2.6200e-003	4.0000e-005		5.0000e-004	5.0000e-004		5.0000e-004	5.0000e-004	0.0000	7.1303	7.1303	1.4000e-004	1.3000e-004	7.1727
Congregate Care (Assisted Living)	424262	2.2900e-003	0.0196	8.3200e-003	1.2000e-004		1.5800e-003	1.5800e-003		1.5800e-003	1.5800e-003	0.0000	22.6402	22.6402	4.3000e-004	4.2000e-004	22.7748
Other 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	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	0.0000
Single Family Housing	783977	4.2300e-003	0.0361	0.0154	2.3000e-004		2.9200e-003	2.9200e-003		2.9200e-003	2.9200e-003	0.0000	41.8360	41.8360	8.0000e-004	7.7000e-004	42.0846
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
<b>Total</b>		<b>7.2400e-003</b>	<b>0.0618</b>	<b>0.0263</b>	<b>3.9000e-004</b>		<b>5.0000e-003</b>	<b>5.0000e-003</b>		<b>5.0000e-003</b>	<b>5.0000e-003</b>	<b>0.0000</b>	<b>71.6065</b>	<b>71.6065</b>	<b>1.3700e-003</b>	<b>1.3200e-003</b>	<b>72.0321</b>

## Creek Side Homes - Humboldt County, Annual

**5.3 Energy by Land Use - Electricity****Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	155285	45.1740	2.0400e-003	4.2000e-004	45.3511
Congregate Care (Assisted Living)	499801	145.3978	6.5700e-003	1.3600e-003	145.9676
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	596643	173.5704	7.8500e-003	1.6200e-003	174.2505
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>364.1422</b>	<b>0.0165</b>	<b>3.4000e-003</b>	<b>365.5691</b>

## Creek Side Homes - Humboldt County, Annual

**5.3 Energy by Land Use - Electricity****Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	149781	43.5730	1.9700e-003	4.1000e-004	43.7438
Congregate Care (Assisted Living)	480211	139.6988	6.3200e-003	1.3100e-003	140.2462
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	583417	169.7227	7.6700e-003	1.5900e-003	170.3877
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>352.9945</b>	<b>0.0160</b>	<b>3.3100e-003</b>	<b>354.3777</b>

**6.0 Area Detail****6.1 Mitigation Measures Area**

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

Creek Side Homes - Humboldt County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6983	0.0162	1.4064	7.0000e-005		7.7500e-003	7.7500e-003		7.7500e-003	7.7500e-003	0.0000	2.2924	2.2924	2.2200e-003	0.0000	2.3479
Unmitigated	12.7508	0.2478	16.0451	0.0266		2.0602	2.0602		2.0602	2.0602	195.2290	84.1686	279.3976	0.1824	0.0154	288.5334

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	0.2418					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6073					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	11.8590	0.2316	14.6387	0.0265		2.0525	2.0525		2.0525	2.0525	195.2290	81.8762	277.1052	0.1802	0.0154	286.1855
Landscaping	0.0426	0.0162	1.4064	7.0000e-005		7.7500e-003	7.7500e-003		7.7500e-003	7.7500e-003	0.0000	2.2924	2.2924	2.2200e-003	0.0000	2.3479
<b>Total</b>	<b>12.7508</b>	<b>0.2478</b>	<b>16.0451</b>	<b>0.0266</b>		<b>2.0602</b>	<b>2.0602</b>		<b>2.0602</b>	<b>2.0602</b>	<b>195.2290</b>	<b>84.1686</b>	<b>279.3976</b>	<b>0.1824</b>	<b>0.0154</b>	<b>288.5334</b>

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**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0484					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.6073					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0426	0.0162	1.4064	7.0000e-005		7.7500e-003	7.7500e-003		7.7500e-003	7.7500e-003	0.0000	2.2924	2.2924	2.2200e-003	0.0000	2.3479
<b>Total</b>	<b>0.6983</b>	<b>0.0162</b>	<b>1.4064</b>	<b>7.0000e-005</b>		<b>7.7500e-003</b>	<b>7.7500e-003</b>		<b>7.7500e-003</b>	<b>7.7500e-003</b>	<b>0.0000</b>	<b>2.2924</b>	<b>2.2924</b>	<b>2.2200e-003</b>	<b>0.0000</b>	<b>2.3479</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	27.8319	0.3221	7.8100e-003	38.2125
Unmitigated	33.0876	0.4026	9.7500e-003	46.0567



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**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 1.85871	1.8925	9.0000e-005	2.0000e-005	1.8999
Condo/Townhouse	1.62885 / 1.02688	4.1263	0.0532	1.2900e-003	5.8408
Congregate Care (Assisted Living)	6.5154 / 4.10754	16.5053	0.2130	5.1500e-003	23.3634
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	4.16986 / 2.62882	10.5634	0.1363	3.2900e-003	14.9526
User Defined Recreational	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>33.0876</b>	<b>0.4026</b>	<b>9.7500e-003</b>	<b>46.0567</b>

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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 1.74533	1.7771	8.0000e-005	2.0000e-005	1.7840
Condo/Townhouse	1.30308 / 0.964244	3.4464	0.0426	1.0300e-003	4.8186
Congregate Care (Assisted Living)	5.21232 / 3.85698	13.7856	0.1704	4.1200e-003	19.2743
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	3.33589 / 2.46847	8.8228	0.1091	2.6400e-003	12.3356
User Defined Recreational	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>27.8319</b>	<b>0.3221</b>	<b>7.8100e-003</b>	<b>38.2125</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	21.4700	1.2688	0.0000	53.1909
Unmitigated	33.0307	1.9521	0.0000	81.8321

## Creek Side Homes - Humboldt County, Annual

**8.2 Waste by Land Use****Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.13	0.0264	1.5600e-003	0.0000	0.0654
Condo/Townhouse	11.5	2.3344	0.1380	0.0000	5.7834
Congregate Care (Assisted Living)	91.25	18.5229	1.0947	0.0000	45.8898
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	59.84	12.1470	0.7179	0.0000	30.0936
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>33.0307</b>	<b>1.9521</b>	<b>0.0000</b>	<b>81.8321</b>

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**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.0845	0.0172	1.0100e-003	0.0000	0.0425
Condo/Townhouse	7.475	1.5174	0.0897	0.0000	3.7592
Congregate Care (Assisted Living)	59.3125	12.0399	0.7115	0.0000	29.8284
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Single Family Housing	38.896	7.8955	0.4666	0.0000	19.5609
User Defined Recreational	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>21.4700</b>	<b>1.2688</b>	<b>0.0000</b>	<b>53.1909</b>

**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
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Creek Side Homes - Humboldt County, Annual

**Boilers**

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

Equipment Type	Number
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**11.0 Vegetation**

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Creek Side Homes - Humboldt County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	212.4000	0.0000	0.0000	212.4000

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	300	212.4000	0.0000	0.0000	212.4000
<b>Total</b>		<b>212.4000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>212.4000</b>

**Creek Side Homes**  
**Humboldt County, Mitigation Report**

**Construction Mitigation Summary**

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Trenching	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**OFFROAD Equipment Mitigation**



Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Excavators	Diesel	No Change	0	6	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	3	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	2	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	6	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	10	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	2	No Change	0.00
Scrapers	Diesel	No Change	0	2	No Change	0.00
Welders	Diesel	No Change	0	1	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Air Compressors	3.28000E-003	2.29000E-002	2.72600E-002	4.00000E-005	1.41000E-003	1.41000E-003	0.00000E+000	3.82988E+000	3.82988E+000	2.60000E-004	0.00000E+000	3.83645E+000
Concrete/Industrial Saws	4.62000E-003	3.58900E-002	3.70200E-002	6.00000E-005	2.29000E-003	2.29000E-003	0.00000E+000	5.37657E+000	5.37657E+000	3.80000E-004	0.00000E+000	5.38603E+000
Cranes	7.40700E-002	8.80060E-001	3.44980E-001	9.30000E-004	3.64200E-002	3.35100E-002	0.00000E+000	8.23781E+001	8.23781E+001	2.65400E-002	0.00000E+000	8.30416E+001
Excavators	2.83600E-002	2.89720E-001	3.59040E-001	5.70000E-004	1.39800E-002	1.28600E-002	0.00000E+000	5.09062E+001	5.09062E+001	1.61400E-002	0.00000E+000	5.13097E+001
Forklifts	8.05300E-002	7.25230E-001	6.55600E-001	8.50000E-004	5.41800E-002	4.98400E-002	0.00000E+000	7.48226E+001	7.48226E+001	2.41100E-002	0.00000E+000	7.54253E+001
Generator Sets	7.43900E-002	6.46550E-001	6.85650E-001	1.22000E-003	3.66500E-002	3.66500E-002	0.00000E+000	1.04563E+002	1.04563E+002	5.95000E-003	0.00000E+000	1.04712E+002
Graders	1.70400E-002	2.30290E-001	6.43300E-002	2.30000E-004	7.39000E-003	6.80000E-003	0.00000E+000	2.08806E+001	2.08806E+001	6.61000E-003	0.00000E+000	2.10458E+001
Pavers	9.85000E-003	1.03800E-001	1.16190E-001	1.90000E-004	5.02000E-003	4.62000E-003	0.00000E+000	1.65130E+001	1.65130E+001	5.34000E-003	0.00000E+000	1.66465E+001
Paving Equipment	7.68000E-003	7.76100E-002	1.01660E-001	1.60000E-004	3.83000E-003	3.53000E-003	0.00000E+000	1.43138E+001	1.43138E+001	4.63000E-003	0.00000E+000	1.44295E+001
Rollers	7.58000E-003	7.69700E-002	7.52200E-002	1.00000E-004	4.71000E-003	4.33000E-003	0.00000E+000	9.22022E+000	9.22022E+000	2.98000E-003	0.00000E+000	9.29477E+000
Rubber Tired Dozers	9.64400E-002	1.02633E+000	3.64150E-001	7.20000E-004	5.00400E-002	4.60400E-002	0.00000E+000	6.51916E+001	6.51916E+001	2.06300E-002	0.00000E+000	6.57072E+001
Scrapers	7.45700E-002	9.03970E-001	5.64300E-001	1.06000E-003	3.54200E-002	3.25900E-002	0.00000E+000	9.52426E+001	9.52426E+001	3.01300E-002	0.00000E+000	9.59960E+001
Tractors/Loaders/Backhoes	1.29950E-001	1.30638E+000	1.38384E+000	1.88000E-003	8.36800E-002	7.69800E-002	0.00000E+000	1.66454E+002	1.66454E+002	5.34500E-002	0.00000E+000	1.67791E+002
Welders	6.38400E-002	2.91070E-001	3.27170E-001	4.70000E-004	1.62200E-002	1.62200E-002	0.00000E+000	3.48208E+001	3.48208E+001	5.19000E-003	0.00000E+000	3.49507E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	3.28000E-003	2.29000E-002	2.72600E-002	4.00000E-005	1.41000E-003	1.41000E-003	0.00000E+000	3.82988E+000	3.82988E+000	2.60000E-004	0.00000E+000	3.83645E+000
Concrete/Industrial Saws	4.62000E-003	3.58900E-002	3.70200E-002	6.00000E-005	2.29000E-003	2.29000E-003	0.00000E+000	5.37657E+000	5.37657E+000	3.80000E-004	0.00000E+000	5.38603E+000
Cranes	7.40700E-002	8.80050E-001	3.44980E-001	9.30000E-004	3.64200E-002	3.35100E-002	0.00000E+000	8.23780E+001	8.23780E+001	2.65400E-002	0.00000E+000	8.30415E+001
Excavators	2.83600E-002	2.89720E-001	3.59040E-001	5.70000E-004	1.39800E-002	1.28600E-002	0.00000E+000	5.09061E+001	5.09061E+001	1.61400E-002	0.00000E+000	5.13096E+001
Forklifts	8.05300E-002	7.25230E-001	6.55600E-001	8.50000E-004	5.41800E-002	4.98400E-002	0.00000E+000	7.48226E+001	7.48226E+001	2.41100E-002	0.00000E+000	7.54252E+001
Generator Sets	7.43900E-002	6.46550E-001	6.85650E-001	1.22000E-003	3.66500E-002	3.66500E-002	0.00000E+000	1.04563E+002	1.04563E+002	5.95000E-003	0.00000E+000	1.04712E+002
Graders	1.70400E-002	2.30290E-001	6.43300E-002	2.30000E-004	7.39000E-003	6.80000E-003	0.00000E+000	2.08806E+001	2.08806E+001	6.61000E-003	0.00000E+000	2.10458E+001
Pavers	9.85000E-003	1.03800E-001	1.16190E-001	1.90000E-004	5.02000E-003	4.62000E-003	0.00000E+000	1.65130E+001	1.65130E+001	5.34000E-003	0.00000E+000	1.66465E+001
Paving Equipment	7.68000E-003	7.76100E-002	1.01660E-001	1.60000E-004	3.83000E-003	3.53000E-003	0.00000E+000	1.43138E+001	1.43138E+001	4.63000E-003	0.00000E+000	1.44295E+001
Rollers	7.58000E-003	7.69700E-002	7.52200E-002	1.00000E-004	4.71000E-003	4.33000E-003	0.00000E+000	9.22021E+000	9.22021E+000	2.98000E-003	0.00000E+000	9.29476E+000
Rubber Tired Dozers	9.64400E-002	1.02632E+000	3.64150E-001	7.20000E-004	5.00400E-002	4.60400E-002	0.00000E+000	6.51915E+001	6.51915E+001	2.06300E-002	0.00000E+000	6.57072E+001
Scrapers	7.45700E-002	9.03970E-001	5.64300E-001	1.06000E-003	3.54200E-002	3.25900E-002	0.00000E+000	9.52425E+001	9.52425E+001	3.01300E-002	0.00000E+000	9.59959E+001
Tractors/Loaders/Balckhoes	1.29950E-001	1.30638E+000	1.38384E+000	1.88000E-003	8.36800E-002	7.69800E-002	0.00000E+000	1.66454E+002	1.66454E+002	5.34500E-002	0.00000E+000	1.67791E+002
Welders	6.38400E-002	2.91070E-001	3.27170E-001	4.70000E-004	1.62200E-002	1.62200E-002	0.00000E+000	3.48208E+001	3.48208E+001	5.19000E-003	0.00000E+000	3.49506E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Cranes	0.00000E+000	1.13629E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21391E-006	1.21391E-006	0.00000E+000	0.00000E+000	1.20422E-006
Excavators	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.17864E-006	1.17864E-006	0.00000E+000	0.00000E+000	1.16937E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20284E-006	1.20284E-006	0.00000E+000	0.00000E+000	1.19323E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.24327E-006	1.24327E-006	0.00000E+000	0.00000E+000	1.14600E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.43674E-006	1.43674E-006	0.00000E+000	0.00000E+000	1.42546E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21117E-006	1.21117E-006	0.00000E+000	0.00000E+000	1.20145E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.39726E-006	1.39726E-006	0.00000E+000	0.00000E+000	1.38605E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.08457E-006	1.08457E-006	0.00000E+000	0.00000E+000	1.07587E-006
Rubber Tired Dozers	0.00000E+000	9.74345E-006	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.07376E-006	1.07376E-006	0.00000E+000	0.00000E+000	1.21752E-006
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.25994E-006	1.25994E-006	0.00000E+000	0.00000E+000	1.14588E-006
Tractors/Loaders/Balckhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20153E-006	1.20153E-006	0.00000E+000	0.00000E+000	1.19196E-006
Welders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.43592E-006	1.43592E-006	0.00000E+000	0.00000E+000	1.14447E-006

**Fugitive Dust Mitigation**

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction	0.00	PM2.5 Reduction	0.00	
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	0.00	PM2.5 Reduction	0.00	
Yes	Water Exposed Area	PM10 Reduction	55.00	PM2.5 Reduction	55.00	Frequency (per day) 2.00

No	Unpaved Road Mitigation	Moisture Content %	0.00	Vehicle Speed (mph)	15.00		
Yes	Clean Paved Road	% PM Reduction	0.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.19	0.05	0.19	0.05	0.00	0.00
Demolition	Fugitive Dust	0.01	0.00	0.00	0.00	0.55	0.55
Demolition	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Grading	Fugitive Dust	0.25	0.12	0.11	0.05	0.55	0.55
Grading	Roads	0.02	0.01	0.02	0.01	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.20	0.10	0.09	0.05	0.55	0.55
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Trenching	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Trenching	Roads	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Percent Reduction Summary**

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	80.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.06	3.06	3.04	2.65	3.06
Hearth	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	4.63	7.87	8.57	10.81	10.63	10.67	0.00	10.82	10.82	7.90	0.00	10.82
Natural Gas	16.20	16.23	16.21	17.02	16.39	16.39	0.00	16.23	16.23	16.46	15.38	16.23
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	20.00	15.33	15.88	19.99	19.90	17.03
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**Operational Mobile Mitigation**

Project Setting: Suburban Center

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	0.20	0.49		
No	Land Use	Improve Walkability Design	0.00			
Yes	Land Use	Improve Destination Accessibility	0.18	1.00		
Yes	Land Use	Increase Transit Accessibility	0.06	1.15		
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.10			

Yes	Neighborhood Enhancements	Improve Pedestrian Network	2.00	Project Site and Connecting Off-Site	
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.02		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.12		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"	4.50		
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program	10.00		
	Commute	Commute Subtotal	0.00		

No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.12		

**Area Mitigation**

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
Yes	No Hearth	
No	Use Low VOC Cleaning Supplies	
Yes	Use Low VOC Paint (Residential Interior)	50.00
Yes	Use Low VOC Paint (Residential Exterior)	50.00
Yes	Use Low VOC Paint (Non-residential Interior)	50.00
Yes	Use Low VOC Paint (Non-residential Exterior)	50.00
Yes	Use Low VOC Paint (Parking)	50.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

**Energy Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
Yes	Exceed Title 24	20.00	
No	Install High Efficiency Lighting		
No	On-site Renewable		



Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

**Water Mitigation Measures**

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy	0.00	0.00
No	Use Reclaimed Water	0.00	0.00
No	Use Grey Water	0.00	
Yes	Install low-flow bathroom faucet	32.00	
Yes	Install low-flow Kitchen faucet	18.00	
Yes	Install low-flow Toilet	20.00	
Yes	Install low-flow Shower	20.00	
No	Turf Reduction	0.00	
Yes	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape	0.00	0.00

**Solid Waste Mitigation**

Mitigation Measures	Input Value
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Institute Recycling and Composting Services Percent Reduction in Waste Disposed	35.00
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