

Roseville Dry Creek Trail\_Segment B - Option 5A\_Clearing and Grading - Placer County APCD Air District, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6400e-003					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	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.0000e-005	7.0000e-005	0.0000	0.0000	8.0000e-005
<b>Total</b>	<b>1.6400e-003</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.0000e-005</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	6.0061	2.2000e-004	5.0000e-005	6.0251
Unmitigated	6.0061	2.2000e-004	5.0000e-005	6.0251

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 4.76593	6.0061	2.2000e-004	5.0000e-005	6.0251
<b>Total</b>		<b>6.0061</b>	<b>2.2000e-004</b>	<b>5.0000e-005</b>	<b>6.0251</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 / 4.76593	6.0061	2.2000e-004	5.0000e-005	6.0251
<b>Total</b>		<b>6.0061</b>	<b>2.2000e-004</b>	<b>5.0000e-005</b>	<b>6.0251</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0690	4.0800e-003	0.0000	0.1710
Unmitigated	0.0690	4.0800e-003	0.0000	0.1710

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.34	0.0690	4.0800e-003	0.0000	0.1710
<b>Total</b>		<b>0.0690</b>	<b>4.0800e-003</b>	<b>0.0000</b>	<b>0.1710</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.34	0.0690	4.0800e-003	0.0000	0.1710
<b>Total</b>		<b>0.0690</b>	<b>4.0800e-003</b>	<b>0.0000</b>	<b>0.1710</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

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### Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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## 11.0 Vegetation

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Roseville Dry Creek Trail\_Segment B - Option 5A\_Drainage and Stabilization - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment B - Option 5A\_Drainage and Stabilization Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	0.25	Acre	0.25	10,890.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	74
<b>Climate Zone</b>	2			<b>Operational Year</b>	2023
<b>Utility Company</b>	Roseville Electric				
<b>CO2 Intensity (lb/MW hr)</b>	793.8	<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 -

Land Use -

Construction Phase - Per Table 2: Construction Phases and Equipment - Segment B, provided by Psomas, September 2017.

Off-road Equipment - Per Table 2: Construction Phases and Equipment - Segment B, provided by Psomas, September 2017.

Grading - No grading

Trips and VMT - Assume 10 avg employees on site in all phases, 4 vendor trips/day. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, September 2017.

## Roseville Dry Creek Trail\_Segment B - Option 5A\_Drainage and Stabilization - Placer County APCD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1.00	15.00
tblConstructionPhase	PhaseEndDate	4/30/2021	5/21/2021
tblGrading	AcresOfGrading	7.50	0.00
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblProjectCharacteristics	OperationalYear	2018	2023
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00

## 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					
2021	5.1400e-003	0.0621	0.0326	9.0000e-005	7.8000e-004	2.2600e-003	3.0400e-003	2.1000e-004	2.0800e-003	2.2900e-003	0.0000	7.7252	7.7252	2.1200e-003	0.0000	7.7783
<b>Maximum</b>	<b>5.1400e-003</b>	<b>0.0621</b>	<b>0.0326</b>	<b>9.0000e-005</b>	<b>7.8000e-004</b>	<b>2.2600e-003</b>	<b>3.0400e-003</b>	<b>2.1000e-004</b>	<b>2.0800e-003</b>	<b>2.2900e-003</b>	<b>0.0000</b>	<b>7.7252</b>	<b>7.7252</b>	<b>2.1200e-003</b>	<b>0.0000</b>	<b>7.7783</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					
2021	5.1400e-003	0.0621	0.0326	9.0000e-005	7.8000e-004	2.2600e-003	3.0400e-003	2.1000e-004	2.0800e-003	2.2900e-003	0.0000	7.7252	7.7252	2.1200e-003	0.0000	7.7783
<b>Maximum</b>	<b>5.1400e-003</b>	<b>0.0621</b>	<b>0.0326</b>	<b>9.0000e-005</b>	<b>7.8000e-004</b>	<b>2.2600e-003</b>	<b>3.0400e-003</b>	<b>2.1000e-004</b>	<b>2.0800e-003</b>	<b>2.2900e-003</b>	<b>0.0000</b>	<b>7.7252</b>	<b>7.7252</b>	<b>2.1200e-003</b>	<b>0.0000</b>	<b>7.7783</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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>



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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-1-2021	7-31-2021	0.0672	0.0672
		Highest	0.0672	0.0672

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0000e-004	0.0000	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	4.3000e-004	2.8300e-003	4.5500e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.9000e-004	0.0000	1.6945	1.6945	6.0000e-005	0.0000	1.6960
Waste						0.0000	0.0000		0.0000	0.0000	4.0600e-003	0.0000	4.0600e-003	2.4000e-004	0.0000	0.0101
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.3754	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>	<b>5.3000e-004</b>	<b>2.8300e-003</b>	<b>4.5500e-003</b>	<b>2.0000e-005</b>	<b>1.3900e-003</b>	<b>1.0000e-005</b>	<b>1.4000e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>4.0600e-003</b>	<b>2.0699</b>	<b>2.0739</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>2.0826</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	1.0000e-004	0.0000	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	4.3000e-004	2.8300e-003	4.5500e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.9000e-004	0.0000	1.6945	1.6945	6.0000e-005	0.0000	1.6960
Waste						0.0000	0.0000		0.0000	0.0000	4.0600e-003	0.0000	4.0600e-003	2.4000e-004	0.0000	0.0101
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.3754	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>	<b>5.3000e-004</b>	<b>2.8300e-003</b>	<b>4.5500e-003</b>	<b>2.0000e-005</b>	<b>1.3900e-003</b>	<b>1.0000e-005</b>	<b>1.4000e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>4.0600e-003</b>	<b>2.0699</b>	<b>2.0739</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>2.0826</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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/1/2021	5/21/2021	5	15	

**Acres of Grading (Site Preparation Phase): 0**

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**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Excavators	1	2.00	158	0.38
Architectural Coating	Tractors/Loaders/Backhoes	1	2.00	97	0.37
Architectural Coating	Paving Equipment	2	2.00	132	0.36
Architectural Coating	Off-Highway Trucks	1	2.00	402	0.38
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	10.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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**3.2 Site Preparation - 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					
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	4.8000e-003	0.0587	0.0302	7.0000e-005		2.2500e-003	2.2500e-003		2.0700e-003	2.0700e-003	0.0000	6.4132	6.4132	2.0700e-003	0.0000	6.4651
<b>Total</b>	<b>4.8000e-003</b>	<b>0.0587</b>	<b>0.0302</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.2500e-003</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>2.0700e-003</b>	<b>2.0700e-003</b>	<b>0.0000</b>	<b>6.4132</b>	<b>6.4132</b>	<b>2.0700e-003</b>	<b>0.0000</b>	<b>6.4651</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	9.0000e-005	3.2800e-003	6.3000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.0000e-004	6.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.8215	0.8215	4.0000e-005	0.0000	0.8225
Worker	2.4000e-004	1.6000e-004	1.7800e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4905	0.4905	1.0000e-005	0.0000	0.4907
<b>Total</b>	<b>3.3000e-004</b>	<b>3.4400e-003</b>	<b>2.4100e-003</b>	<b>2.0000e-005</b>	<b>7.9000e-004</b>	<b>1.0000e-005</b>	<b>7.9000e-004</b>	<b>2.2000e-004</b>	<b>1.0000e-005</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.3120</b>	<b>1.3120</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.3132</b>

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**3.2 Site Preparation - 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					
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	4.8000e-003	0.0587	0.0302	7.0000e-005		2.2500e-003	2.2500e-003		2.0700e-003	2.0700e-003	0.0000	6.4132	6.4132	2.0700e-003	0.0000	6.4651
<b>Total</b>	<b>4.8000e-003</b>	<b>0.0587</b>	<b>0.0302</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.2500e-003</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>2.0700e-003</b>	<b>2.0700e-003</b>	<b>0.0000</b>	<b>6.4132</b>	<b>6.4132</b>	<b>2.0700e-003</b>	<b>0.0000</b>	<b>6.4651</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	9.0000e-005	3.2800e-003	6.3000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.0000e-004	6.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.8215	0.8215	4.0000e-005	0.0000	0.8225
Worker	2.4000e-004	1.6000e-004	1.7800e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4905	0.4905	1.0000e-005	0.0000	0.4907
<b>Total</b>	<b>3.3000e-004</b>	<b>3.4400e-003</b>	<b>2.4100e-003</b>	<b>2.0000e-005</b>	<b>7.9000e-004</b>	<b>1.0000e-005</b>	<b>7.9000e-004</b>	<b>2.2000e-004</b>	<b>1.0000e-005</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.3120</b>	<b>1.3120</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.3132</b>

**4.0 Operational Detail - Mobile**

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District, Annual **4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.3000e-004	2.8300e-003	4.5500e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.9000e-004	0.0000	1.6945	1.6945	6.0000e-005	0.0000	1.6960
Unmitigated	4.3000e-004	2.8300e-003	4.5500e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.9000e-004	0.0000	1.6945	1.6945	6.0000e-005	0.0000	1.6960

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.47	5.69	4.19	3,731	3,731
Total	0.47	5.69	4.19	3,731	3,731

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.504187	0.038691	0.220388	0.121642	0.020356	0.005773	0.031759	0.047089	0.001411	0.001172	0.005719	0.000756	0.001058

Roseville Dry Creek Trail\_Segment B - Option 5A\_Drainage and Stabilization - Placer County APCD Air District, Annual

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

Roseville Dry Creek Trail\_Segment B - Option 5A\_Drainage and Stabilization - Placer County APCD Air District, Annual

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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					
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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



Roseville Dry Creek Trail\_Segment B - Option 5A\_Drainage and Stabilization - Placer County APCD Air District, 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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.0000e-004	0.0000	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	1.0000e-004	0.0000	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	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	1.0000e-004					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
<b>Total</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0000e-004					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
<b>Total</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Roseville Dry Creek Trail\_Segment B - Option 5A\_Drainage and Stabilization - Placer County APCD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.3754	1.0000e-005	0.0000	0.3766
Unmitigated	0.3754	1.0000e-005	0.0000	0.3766

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.29787	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>		<b>0.3754</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3766</b>

Roseville Dry Creek Trail\_Segment B - Option 5A\_Drainage and Stabilization - Placer County APCD Air District, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.29787	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>		<b>0.3754</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3766</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.0600e-003	2.4000e-004	0.0000	0.0101
Unmitigated	4.0600e-003	2.4000e-004	0.0000	0.0101

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.02	4.0600e-003	2.4000e-004	0.0000	0.0101
<b>Total</b>		<b>4.0600e-003</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0101</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.02	4.0600e-003	2.4000e-004	0.0000	0.0101
<b>Total</b>		<b>4.0600e-003</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0101</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Roseville Dry Creek Trail\_Segment B - Option 5A\_Drainage and Stabilization - Placer County APCD Air District, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Roseville Dry Creek Trail\_Segment B - Option 5A\_Finish Grading - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment B - Option  
5A\_Finish Grading Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	4.00	Acre	4.00	174,240.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	74
<b>Climate Zone</b>	2			<b>Operational Year</b>	2023
<b>Utility Company</b>	Roseville Electric				
<b>CO2 Intensity (lb/MW hr)</b>	793.8	<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 -

Land Use - Acres value based on assumption of average of 20 feet disturbance on either side of centerline, for 3,900 ft (.7 miles)

Construction Phase - Per Table 2: Construction Phases and Equipment - Segment B, provided by Psomas, September 2017.

Off-road Equipment - Per Table 2: Construction Phases and Equipment - Segment B, provided by Psomas, September 2017.

Grading - Acres value based on assumption of average of 20 feet disturbance on either side of centerline, for 3,900 ft (.7 miles)

Trips and VMT - Assume 10 avg employees on site in all phases, 4 vendor trips/day. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, September 2017.



Date: Roseville Dry Creek Trail\_Segment B - Option 5A\_Finish Grading - Placer County APCD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	8.00	10.00
tblGrading	AcresOfGrading	5.00	4.00
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblProjectCharacteristics	OperationalYear	2018	2023
tblTripsAndVMT	HaulingTripNumber	0.00	100.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	10.00

## 2.0 Emissions Summary

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Date: Roseville Dry Creek Trail\_Segment B - Option 5A\_Finish Grading - Placer County APCD Air District, Annual

**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					
2021	0.0121	0.1387	0.0831	2.0000e-004	0.0336	5.8500e-003	0.0394	0.0172	5.3800e-003	0.0225	0.0000	17.7480	17.7480	4.3700e-003	0.0000	17.8573
<b>Maximum</b>	<b>0.0121</b>	<b>0.1387</b>	<b>0.0831</b>	<b>2.0000e-004</b>	<b>0.0336</b>	<b>5.8500e-003</b>	<b>0.0394</b>	<b>0.0172</b>	<b>5.3800e-003</b>	<b>0.0225</b>	<b>0.0000</b>	<b>17.7480</b>	<b>17.7480</b>	<b>4.3700e-003</b>	<b>0.0000</b>	<b>17.8573</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					
2021	0.0121	0.1387	0.0831	2.0000e-004	0.0336	5.8500e-003	0.0394	0.0172	5.3800e-003	0.0225	0.0000	17.7480	17.7480	4.3700e-003	0.0000	17.8572
<b>Maximum</b>	<b>0.0121</b>	<b>0.1387</b>	<b>0.0831</b>	<b>2.0000e-004</b>	<b>0.0336</b>	<b>5.8500e-003</b>	<b>0.0394</b>	<b>0.0172</b>	<b>5.3800e-003</b>	<b>0.0225</b>	<b>0.0000</b>	<b>17.7480</b>	<b>17.7480</b>	<b>4.3700e-003</b>	<b>0.0000</b>	<b>17.8572</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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-1-2021	7-31-2021	0.1504	0.1504
		Highest	0.1504	0.1504

## 2.2 Overall Operational

### Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.6400e-003	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.0000e-005	7.0000e-005	0.0000	0.0000	8.0000e-005
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	6.8200e-003	0.0453	0.0727	2.9000e-004	0.0222	2.1000e-004	0.0224	5.9700e-003	1.9000e-004	6.1700e-003	0.0000	27.1115	27.1115	9.8000e-004	0.0000	27.1360
Waste						0.0000	0.0000		0.0000	0.0000	0.0690	0.0000	0.0690	4.0800e-003	0.0000	0.1710
Water						0.0000	0.0000		0.0000	0.0000	0.0000	6.0061	6.0061	2.2000e-004	5.0000e-005	6.0251
<b>Total</b>	<b>8.4600e-003</b>	<b>0.0453</b>	<b>0.0728</b>	<b>2.9000e-004</b>	<b>0.0222</b>	<b>2.1000e-004</b>	<b>0.0224</b>	<b>5.9700e-003</b>	<b>1.9000e-004</b>	<b>6.1700e-003</b>	<b>0.0690</b>	<b>33.1177</b>	<b>33.1867</b>	<b>5.2800e-003</b>	<b>5.0000e-005</b>	<b>33.3321</b>

Date: Roseville Dry Creek Trail\_Segment B - Option 5A\_Finish Grading - Placer County APCD Air District, Annual

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.6400e-003	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.0000e-005	7.0000e-005	0.0000	0.0000	8.0000e-005
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	6.8200e-003	0.0453	0.0727	2.9000e-004	0.0222	2.1000e-004	0.0224	5.9700e-003	1.9000e-004	6.1700e-003	0.0000	27.1115	27.1115	9.8000e-004	0.0000	27.1360
Waste						0.0000	0.0000		0.0000	0.0000	0.0690	0.0000	0.0690	4.0800e-003	0.0000	0.1710
Water						0.0000	0.0000		0.0000	0.0000	0.0000	6.0061	6.0061	2.2000e-004	5.0000e-005	6.0251
<b>Total</b>	<b>8.4600e-003</b>	<b>0.0453</b>	<b>0.0728</b>	<b>2.9000e-004</b>	<b>0.0222</b>	<b>2.1000e-004</b>	<b>0.0224</b>	<b>5.9700e-003</b>	<b>1.9000e-004</b>	<b>6.1700e-003</b>	<b>0.0690</b>	<b>33.1177</b>	<b>33.1867</b>	<b>5.2800e-003</b>	<b>5.0000e-005</b>	<b>33.3321</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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	5/1/2021	5/14/2021	5	10	

**Acres of Grading (Site Preparation Phase): 0**

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**Acres of Grading (Grading Phase): 4**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Architectural Coating	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Architectural Coating	Graders	1	4.00	187	0.41
Architectural Coating	Off-Highway Trucks	1	4.00	402	0.38
Architectural Coating	Rollers	2	4.00	80	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	6	10.00	4.00	100.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Date: Roseville Dry Creek Trail\_Segment B - Option 5A\_Finish Grading - Placer County APCD Air District, Annual

**3.2 Grading - 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					
Fugitive Dust					0.0322	0.0000	0.0322	0.0168	0.0000	0.0168	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0115	0.1237	0.0793	1.5000e-004		5.8000e-003	5.8000e-003		5.3400e-003	5.3400e-003	0.0000	13.0269	13.0269	4.2100e-003	0.0000	13.1322
<b>Total</b>	<b>0.0115</b>	<b>0.1237</b>	<b>0.0793</b>	<b>1.5000e-004</b>	<b>0.0322</b>	<b>5.8000e-003</b>	<b>0.0380</b>	<b>0.0168</b>	<b>5.3400e-003</b>	<b>0.0221</b>	<b>0.0000</b>	<b>13.0269</b>	<b>13.0269</b>	<b>4.2100e-003</b>	<b>0.0000</b>	<b>13.1322</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	3.8000e-004	0.0127	2.1600e-003	4.0000e-005	8.4000e-004	4.0000e-005	8.8000e-004	2.3000e-004	4.0000e-005	2.7000e-004	0.0000	3.8465	3.8465	1.2000e-004	0.0000	3.8496
Vendor	6.0000e-005	2.1800e-003	4.2000e-004	1.0000e-005	1.3000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5477	0.5477	3.0000e-005	0.0000	0.5483
Worker	1.6000e-004	1.1000e-004	1.1900e-003	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.3270	0.3270	1.0000e-005	0.0000	0.3272
<b>Total</b>	<b>6.0000e-004</b>	<b>0.0150</b>	<b>3.7700e-003</b>	<b>5.0000e-005</b>	<b>1.3600e-003</b>	<b>4.0000e-005</b>	<b>1.4200e-003</b>	<b>3.7000e-004</b>	<b>4.0000e-005</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>4.7211</b>	<b>4.7211</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>4.7251</b>

Date: Roseville Dry Creek Trail\_Segment B - Option 5A\_Finish Grading - Placer County APCD Air District, Annual

### 3.2 Grading - 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					
Fugitive Dust					0.0322	0.0000	0.0322	0.0168	0.0000	0.0168	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0115	0.1237	0.0793	1.5000e-004		5.8000e-003	5.8000e-003		5.3400e-003	5.3400e-003	0.0000	13.0268	13.0268	4.2100e-003	0.0000	13.1322
<b>Total</b>	<b>0.0115</b>	<b>0.1237</b>	<b>0.0793</b>	<b>1.5000e-004</b>	<b>0.0322</b>	<b>5.8000e-003</b>	<b>0.0380</b>	<b>0.0168</b>	<b>5.3400e-003</b>	<b>0.0221</b>	<b>0.0000</b>	<b>13.0268</b>	<b>13.0268</b>	<b>4.2100e-003</b>	<b>0.0000</b>	<b>13.1322</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	3.8000e-004	0.0127	2.1600e-003	4.0000e-005	8.4000e-004	4.0000e-005	8.8000e-004	2.3000e-004	4.0000e-005	2.7000e-004	0.0000	3.8465	3.8465	1.2000e-004	0.0000	3.8496
Vendor	6.0000e-005	2.1800e-003	4.2000e-004	1.0000e-005	1.3000e-004	0.0000	1.4000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5477	0.5477	3.0000e-005	0.0000	0.5483
Worker	1.6000e-004	1.1000e-004	1.1900e-003	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.3270	0.3270	1.0000e-005	0.0000	0.3272
<b>Total</b>	<b>6.0000e-004</b>	<b>0.0150</b>	<b>3.7700e-003</b>	<b>5.0000e-005</b>	<b>1.3600e-003</b>	<b>4.0000e-005</b>	<b>1.4200e-003</b>	<b>3.7000e-004</b>	<b>4.0000e-005</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>4.7211</b>	<b>4.7211</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>4.7251</b>

### 4.0 Operational Detail - Mobile

Roseville Dry Creek Trail\_Segment B - Option 5A\_Finish Grading - Placer County APCD Air

District, Annual **4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	6.8200e-003	0.0453	0.0727	2.9000e-004	0.0222	2.1000e-004	0.0224	5.9700e-003	1.9000e-004	6.1700e-003	0.0000	27.1115	27.1115	9.8000e-004	0.0000	27.1360
Unmitigated	6.8200e-003	0.0453	0.0727	2.9000e-004	0.0222	2.1000e-004	0.0224	5.9700e-003	1.9000e-004	6.1700e-003	0.0000	27.1115	27.1115	9.8000e-004	0.0000	27.1360

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	7.56	91.00	66.96	59,703	59,703
Total	7.56	91.00	66.96	59,703	59,703

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.504187	0.038691	0.220388	0.121642	0.020356	0.005773	0.031759	0.047089	0.001411	0.001172	0.005719	0.000756	0.001058



Date: Roseville Dry Creek Trail\_Segment B - Option 5A\_Finish Grading - Placer County APCD Air District, Annual

### 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

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

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**5.2 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	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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						
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	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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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			
City Park	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

#### 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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

### 6.0 Area Detail

#### 6.1 Mitigation Measures Area

Date: Roseville Dry Creek Trail\_Segment B - Option 5A\_Finish Grading - Placer County APCD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.6400e-003	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.0000e-005	7.0000e-005	0.0000	0.0000	8.0000e-005
Unmitigated	1.6400e-003	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.0000e-005	7.0000e-005	0.0000	0.0000	8.0000e-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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6400e-003					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	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.0000e-005	7.0000e-005	0.0000	0.0000	8.0000e-005
<b>Total</b>	<b>1.6400e-003</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.0000e-005</b>

Date: Roseville Dry Creek Trail\_Segment B - Option 5A\_Finish Grading - Placer County APCD Air District, Annual

### 6.2 Area by SubCategory

#### Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6400e-003					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	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.0000e-005	7.0000e-005	0.0000	0.0000	8.0000e-005
<b>Total</b>	<b>1.6400e-003</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.0000e-005</b>

### 7.0 Water Detail

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#### 7.1 Mitigation Measures Water

Date: Roseville Dry Creek Trail\_Segment B - Option 5A\_Finish Grading - Placer County APCD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	6.0061	2.2000e-004	5.0000e-005	6.0251
Unmitigated	6.0061	2.2000e-004	5.0000e-005	6.0251

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 4.76593	6.0061	2.2000e-004	5.0000e-005	6.0251
<b>Total</b>		<b>6.0061</b>	<b>2.2000e-004</b>	<b>5.0000e-005</b>	<b>6.0251</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 / 4.76593	6.0061	2.2000e-004	5.0000e-005	6.0251
<b>Total</b>		<b>6.0061</b>	<b>2.2000e-004</b>	<b>5.0000e-005</b>	<b>6.0251</b>

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0690	4.0800e-003	0.0000	0.1710
Unmitigated	0.0690	4.0800e-003	0.0000	0.1710

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### 8.2 Waste by Land Use

#### Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.34	0.0690	4.0800e-003	0.0000	0.1710
<b>Total</b>		<b>0.0690</b>	<b>4.0800e-003</b>	<b>0.0000</b>	<b>0.1710</b>

#### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.34	0.0690	4.0800e-003	0.0000	0.1710
<b>Total</b>		<b>0.0690</b>	<b>4.0800e-003</b>	<b>0.0000</b>	<b>0.1710</b>

### 9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Date: Roseville Dry Creek Trail\_Segment B - Option 5A\_Finish Grading - Placer County APCD Air District, Annual

## 10.0 Stationary Equipment

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### Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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## 11.0 Vegetation

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Roseville Dry Creek Trail\_Segment B - Option 5A\_Paving - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment B -  
Option 5A\_Paving Placer County APCD Air  
District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	4.00	Acre	4.00	174,240.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	74
<b>Climate Zone</b>	2			<b>Operational Year</b>	2023
<b>Utility Company</b>	Roseville Electric				
<b>CO2 Intensity (lb/MW hr)</b>	793.8	<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 -

Land Use -

Construction Phase - Per Table 2: Construction Phases and Equipment - Segment B, provided by Psomas, September 2017.

Off-road Equipment - Per Table 2: Construction Phases and Equipment - Segment B, provided by Psomas, September 2017.

Trips and VMT - Assume 10 avg employees on site in all phases, 4 vendor trips/day. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, September 2017.

## Roseville Dry Creek Trail\_Segment B - Option 5A\_Paving - Placer County APCD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	18.00	20.00
tblConstructionPhase	PhaseEndDate	4/30/2021	5/28/2021
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblProjectCharacteristics	OperationalYear	2018	2023
tblTripsAndVMT	HaulingTripNumber	0.00	15.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	20.00	10.00

## 2.0 Emissions Summary

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Roseville Dry Creek Trail\_Segment B - Option 5A\_Paving - Placer County APCD Air District, Annual

**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					
2021	0.0114	0.1149	0.1261	2.1000e-004	1.1700e-003	5.8100e-003	6.9800e-003	3.2000e-004	5.3600e-003	5.6800e-003	0.0000	18.6969	18.6969	5.2300e-003	0.0000	18.8276
<b>Maximum</b>	<b>0.0114</b>	<b>0.1149</b>	<b>0.1261</b>	<b>2.1000e-004</b>	<b>1.1700e-003</b>	<b>5.8100e-003</b>	<b>6.9800e-003</b>	<b>3.2000e-004</b>	<b>5.3600e-003</b>	<b>5.6800e-003</b>	<b>0.0000</b>	<b>18.6969</b>	<b>18.6969</b>	<b>5.2300e-003</b>	<b>0.0000</b>	<b>18.8276</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					
2021	0.0114	0.1149	0.1261	2.1000e-004	1.1700e-003	5.8100e-003	6.9800e-003	3.2000e-004	5.3600e-003	5.6800e-003	0.0000	18.6969	18.6969	5.2300e-003	0.0000	18.8276
<b>Maximum</b>	<b>0.0114</b>	<b>0.1149</b>	<b>0.1261</b>	<b>2.1000e-004</b>	<b>1.1700e-003</b>	<b>5.8100e-003</b>	<b>6.9800e-003</b>	<b>3.2000e-004</b>	<b>5.3600e-003</b>	<b>5.6800e-003</b>	<b>0.0000</b>	<b>18.6969</b>	<b>18.6969</b>	<b>5.2300e-003</b>	<b>0.0000</b>	<b>18.8276</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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-1-2021	7-31-2021	0.1262	0.1262
		Highest	0.1262	0.1262

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.6400e-003	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.0000e-005	7.0000e-005	0.0000	0.0000	8.0000e-005
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	6.8200e-003	0.0453	0.0727	2.9000e-004	0.0222	2.1000e-004	0.0224	5.9700e-003	1.9000e-004	6.1700e-003	0.0000	27.1115	27.1115	9.8000e-004	0.0000	27.1360
Waste						0.0000	0.0000		0.0000	0.0000	0.0690	0.0000	0.0690	4.0800e-003	0.0000	0.1710
Water						0.0000	0.0000		0.0000	0.0000	0.0000	6.0061	6.0061	2.2000e-004	5.0000e-005	6.0251
<b>Total</b>	<b>8.4600e-003</b>	<b>0.0453</b>	<b>0.0728</b>	<b>2.9000e-004</b>	<b>0.0222</b>	<b>2.1000e-004</b>	<b>0.0224</b>	<b>5.9700e-003</b>	<b>1.9000e-004</b>	<b>6.1700e-003</b>	<b>0.0690</b>	<b>33.1177</b>	<b>33.1867</b>	<b>5.2800e-003</b>	<b>5.0000e-005</b>	<b>33.3321</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	1.6400e-003	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.0000e-005	7.0000e-005	0.0000	0.0000	8.0000e-005
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	6.8200e-003	0.0453	0.0727	2.9000e-004	0.0222	2.1000e-004	0.0224	5.9700e-003	1.9000e-004	6.1700e-003	0.0000	27.1115	27.1115	9.8000e-004	0.0000	27.1360
Waste						0.0000	0.0000		0.0000	0.0000	0.0690	0.0000	0.0690	4.0800e-003	0.0000	0.1710
Water						0.0000	0.0000		0.0000	0.0000	0.0000	6.0061	6.0061	2.2000e-004	5.0000e-005	6.0251
<b>Total</b>	<b>8.4600e-003</b>	<b>0.0453</b>	<b>0.0728</b>	<b>2.9000e-004</b>	<b>0.0222</b>	<b>2.1000e-004</b>	<b>0.0224</b>	<b>5.9700e-003</b>	<b>1.9000e-004</b>	<b>6.1700e-003</b>	<b>0.0690</b>	<b>33.1177</b>	<b>33.1867</b>	<b>5.2800e-003</b>	<b>5.0000e-005</b>	<b>33.3321</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
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	Paving	Paving	5/1/2021	5/28/2021	5	20	

**Acres of Grading (Site Preparation Phase): 0**

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**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Pavers	1	4.80	130	0.42
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Architectural Coating	Tractors/Loaders/Backhoes	1	4.80	97	0.37
Architectural Coating	Rollers	2	4.80	80	0.38
Architectural Coating	Paving Equipment	2	4.00	8	0.43
Architectural Coating	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Paving	Pavers	1	8.00	130	0.42
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Paving Equipment	2	6.00	132	0.36

**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
Paving	8	10.00	4.00	15.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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**3.2 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	0.0109	0.1084	0.1226	1.9000e-004		5.7900e-003	5.7900e-003		5.3400e-003	5.3400e-003	0.0000	16.3706	16.3706	5.1400e-003	0.0000	16.4992
Paving	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>0.0109</b>	<b>0.1084</b>	<b>0.1226</b>	<b>1.9000e-004</b>		<b>5.7900e-003</b>	<b>5.7900e-003</b>		<b>5.3400e-003</b>	<b>5.3400e-003</b>	<b>0.0000</b>	<b>16.3706</b>	<b>16.3706</b>	<b>5.1400e-003</b>	<b>0.0000</b>	<b>16.4992</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	6.0000e-005	1.9100e-003	3.2000e-004	1.0000e-005	1.3000e-004	1.0000e-005	1.3000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5770	0.5770	2.0000e-005	0.0000	0.5774
Vendor	1.2000e-004	4.3700e-003	8.3000e-004	1.0000e-005	2.6000e-004	1.0000e-005	2.7000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.0954	1.0954	5.0000e-005	0.0000	1.0967
Worker	3.2000e-004	2.2000e-004	2.3700e-003	1.0000e-005	7.9000e-004	1.0000e-005	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6539	0.6539	1.0000e-005	0.0000	0.6543
<b>Total</b>	<b>5.0000e-004</b>	<b>6.5000e-003</b>	<b>3.5200e-003</b>	<b>3.0000e-005</b>	<b>1.1800e-003</b>	<b>3.0000e-005</b>	<b>1.1900e-003</b>	<b>3.2000e-004</b>	<b>2.0000e-005</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>2.3263</b>	<b>2.3263</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.3284</b>



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**3.2 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	0.0109	0.1084	0.1226	1.9000e-004		5.7900e-003	5.7900e-003		5.3400e-003	5.3400e-003	0.0000	16.3706	16.3706	5.1400e-003	0.0000	16.4992
Paving	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>0.0109</b>	<b>0.1084</b>	<b>0.1226</b>	<b>1.9000e-004</b>		<b>5.7900e-003</b>	<b>5.7900e-003</b>		<b>5.3400e-003</b>	<b>5.3400e-003</b>	<b>0.0000</b>	<b>16.3706</b>	<b>16.3706</b>	<b>5.1400e-003</b>	<b>0.0000</b>	<b>16.4992</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	6.0000e-005	1.9100e-003	3.2000e-004	1.0000e-005	1.3000e-004	1.0000e-005	1.3000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5770	0.5770	2.0000e-005	0.0000	0.5774
Vendor	1.2000e-004	4.3700e-003	8.3000e-004	1.0000e-005	2.6000e-004	1.0000e-005	2.7000e-004	8.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.0954	1.0954	5.0000e-005	0.0000	1.0967
Worker	3.2000e-004	2.2000e-004	2.3700e-003	1.0000e-005	7.9000e-004	1.0000e-005	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6539	0.6539	1.0000e-005	0.0000	0.6543
<b>Total</b>	<b>5.0000e-004</b>	<b>6.5000e-003</b>	<b>3.5200e-003</b>	<b>3.0000e-005</b>	<b>1.1800e-003</b>	<b>3.0000e-005</b>	<b>1.1900e-003</b>	<b>3.2000e-004</b>	<b>2.0000e-005</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>2.3263</b>	<b>2.3263</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>2.3284</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	6.8200e-003	0.0453	0.0727	2.9000e-004	0.0222	2.1000e-004	0.0224	5.9700e-003	1.9000e-004	6.1700e-003	0.0000	27.1115	27.1115	9.8000e-004	0.0000	27.1360
Unmitigated	6.8200e-003	0.0453	0.0727	2.9000e-004	0.0222	2.1000e-004	0.0224	5.9700e-003	1.9000e-004	6.1700e-003	0.0000	27.1115	27.1115	9.8000e-004	0.0000	27.1360

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	7.56	91.00	66.96	59,703	59,703
Total	7.56	91.00	66.96	59,703	59,703

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.504187	0.038691	0.220388	0.121642	0.020356	0.005773	0.031759	0.047089	0.001411	0.001172	0.005719	0.000756	0.001058

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

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**5.2 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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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					
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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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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			
City Park	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.6400e-003	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.0000e-005	7.0000e-005	0.0000	0.0000	8.0000e-005
Unmitigated	1.6400e-003	0.0000	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.0000e-005	7.0000e-005	0.0000	0.0000	8.0000e-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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6400e-003					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	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.0000e-005	7.0000e-005	0.0000	0.0000	8.0000e-005
<b>Total</b>	<b>1.6400e-003</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.0000e-005</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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.6400e-003					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	4.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.0000e-005	7.0000e-005	0.0000	0.0000	8.0000e-005
<b>Total</b>	<b>1.6400e-003</b>	<b>0.0000</b>	<b>4.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>8.0000e-005</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	6.0061	2.2000e-004	5.0000e-005	6.0251
Unmitigated	6.0061	2.2000e-004	5.0000e-005	6.0251

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 4.76593	6.0061	2.2000e-004	5.0000e-005	6.0251
<b>Total</b>		<b>6.0061</b>	<b>2.2000e-004</b>	<b>5.0000e-005</b>	<b>6.0251</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 / 4.76593	6.0061	2.2000e-004	5.0000e-005	6.0251
<b>Total</b>		<b>6.0061</b>	<b>2.2000e-004</b>	<b>5.0000e-005</b>	<b>6.0251</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0690	4.0800e-003	0.0000	0.1710
Unmitigated	0.0690	4.0800e-003	0.0000	0.1710

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.34	0.0690	4.0800e-003	0.0000	0.1710
<b>Total</b>		<b>0.0690</b>	<b>4.0800e-003</b>	<b>0.0000</b>	<b>0.1710</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.34	0.0690	4.0800e-003	0.0000	0.1710
<b>Total</b>		<b>0.0690</b>	<b>4.0800e-003</b>	<b>0.0000</b>	<b>0.1710</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Roseville Dry Creek Trail\_Segment B - Option 5A\_Paving - Placer County APCD Air District, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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**Roseville Dry Creek Trail\_Segment B - Option 5A\_Planting and Erosion Control Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	0.25	Acre	0.25	10,890.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	74
<b>Climate Zone</b>	2			<b>Operational Year</b>	2023
<b>Utility Company</b>	Roseville Electric				
<b>CO2 Intensity (lb/MW hr)</b>	793.8	<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 -

Land Use -

Construction Phase - Per Table 2: Construction Phases and Equipment - Segment B, provided by Psomas, September 2017.

Off-road Equipment - Per Table 2: Construction Phases and Equipment - Segment B, provided by Psomas, September 2017.

Grading - No grading

Trips and VMT - Assume 10 avg employees on site in all phases. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, September 2017.

## Roseville Dry Creek Trail\_Segment B - Option 5A\_Planting and Erosion Control - Placer County APCD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1.00	15.00
tblConstructionPhase	PhaseEndDate	4/30/2021	5/21/2021
tblGrading	AcresOfGrading	7.50	0.00
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblProjectCharacteristics	OperationalYear	2018	2023
tblTripsAndVMT	HaulingTripNumber	0.00	1.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00

## 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					
2021	5.0500e-003	0.0589	0.0320	8.0000e-005	6.0000e-004	2.2500e-003	2.8500e-003	1.6000e-004	2.0700e-003	2.2300e-003	0.0000	6.9422	6.9422	2.0900e-003	0.0000	6.9943
<b>Maximum</b>	<b>5.0500e-003</b>	<b>0.0589</b>	<b>0.0320</b>	<b>8.0000e-005</b>	<b>6.0000e-004</b>	<b>2.2500e-003</b>	<b>2.8500e-003</b>	<b>1.6000e-004</b>	<b>2.0700e-003</b>	<b>2.2300e-003</b>	<b>0.0000</b>	<b>6.9422</b>	<b>6.9422</b>	<b>2.0900e-003</b>	<b>0.0000</b>	<b>6.9943</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					
2021	5.0500e-003	0.0589	0.0320	8.0000e-005	6.0000e-004	2.2500e-003	2.8500e-003	1.6000e-004	2.0700e-003	2.2300e-003	0.0000	6.9422	6.9422	2.0900e-003	0.0000	6.9943
<b>Maximum</b>	<b>5.0500e-003</b>	<b>0.0589</b>	<b>0.0320</b>	<b>8.0000e-005</b>	<b>6.0000e-004</b>	<b>2.2500e-003</b>	<b>2.8500e-003</b>	<b>1.6000e-004</b>	<b>2.0700e-003</b>	<b>2.2300e-003</b>	<b>0.0000</b>	<b>6.9422</b>	<b>6.9422</b>	<b>2.0900e-003</b>	<b>0.0000</b>	<b>6.9943</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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-1-2021	7-31-2021	0.0640	0.0640
		Highest	0.0640	0.0640

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0000e-004	0.0000	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	4.3000e-004	2.8300e-003	4.5500e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.9000e-004	0.0000	1.6945	1.6945	6.0000e-005	0.0000	1.6960
Waste						0.0000	0.0000		0.0000	0.0000	4.0600e-003	0.0000	4.0600e-003	2.4000e-004	0.0000	0.0101
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.3754	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>	<b>5.3000e-004</b>	<b>2.8300e-003</b>	<b>4.5500e-003</b>	<b>2.0000e-005</b>	<b>1.3900e-003</b>	<b>1.0000e-005</b>	<b>1.4000e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>4.0600e-003</b>	<b>2.0699</b>	<b>2.0739</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>2.0826</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	1.0000e-004	0.0000	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	4.3000e-004	2.8300e-003	4.5500e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.9000e-004	0.0000	1.6945	1.6945	6.0000e-005	0.0000	1.6960
Waste						0.0000	0.0000		0.0000	0.0000	4.0600e-003	0.0000	4.0600e-003	2.4000e-004	0.0000	0.0101
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.3754	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>	<b>5.3000e-004</b>	<b>2.8300e-003</b>	<b>4.5500e-003</b>	<b>2.0000e-005</b>	<b>1.3900e-003</b>	<b>1.0000e-005</b>	<b>1.4000e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>4.0600e-003</b>	<b>2.0699</b>	<b>2.0739</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>2.0826</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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	5/1/2021	5/21/2021	5	15	

**Acres of Grading (Site Preparation Phase): 0**



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**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Architectural Coating	Off-Highway Trucks	1	4.00	124	0.44
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	10.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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**3.2 Site Preparation - 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					
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	4.8000e-003	0.0587	0.0302	7.0000e-005		2.2500e-003	2.2500e-003		2.0700e-003	2.0700e-003	0.0000	6.4132	6.4132	2.0700e-003	0.0000	6.4651
<b>Total</b>	<b>4.8000e-003</b>	<b>0.0587</b>	<b>0.0302</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.2500e-003</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>2.0700e-003</b>	<b>2.0700e-003</b>	<b>0.0000</b>	<b>6.4132</b>	<b>6.4132</b>	<b>2.0700e-003</b>	<b>0.0000</b>	<b>6.4651</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	1.3000e-004	2.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0385	0.0385	0.0000	0.0000	0.0385
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	2.4000e-004	1.6000e-004	1.7800e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4905	0.4905	1.0000e-005	0.0000	0.4907
<b>Total</b>	<b>2.4000e-004</b>	<b>2.9000e-004</b>	<b>1.8000e-003</b>	<b>1.0000e-005</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>6.0000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.5289</b>	<b>0.5289</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.5292</b>

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**3.2 Site Preparation - 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					
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	4.8000e-003	0.0587	0.0302	7.0000e-005		2.2500e-003	2.2500e-003		2.0700e-003	2.0700e-003	0.0000	6.4132	6.4132	2.0700e-003	0.0000	6.4651
<b>Total</b>	<b>4.8000e-003</b>	<b>0.0587</b>	<b>0.0302</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.2500e-003</b>	<b>2.2500e-003</b>	<b>0.0000</b>	<b>2.0700e-003</b>	<b>2.0700e-003</b>	<b>0.0000</b>	<b>6.4132</b>	<b>6.4132</b>	<b>2.0700e-003</b>	<b>0.0000</b>	<b>6.4651</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	1.3000e-004	2.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0385	0.0385	0.0000	0.0000	0.0385
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	2.4000e-004	1.6000e-004	1.7800e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4905	0.4905	1.0000e-005	0.0000	0.4907
<b>Total</b>	<b>2.4000e-004</b>	<b>2.9000e-004</b>	<b>1.8000e-003</b>	<b>1.0000e-005</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>6.0000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.5289</b>	<b>0.5289</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.5292</b>

**4.0 Operational Detail - Mobile**

Roseville Dry Creek Trail\_Segment B - Option 5A\_Planting and Erosion Control - Placer County APCD Air

District, Annual **4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.3000e-004	2.8300e-003	4.5500e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.9000e-004	0.0000	1.6945	1.6945	6.0000e-005	0.0000	1.6960
Unmitigated	4.3000e-004	2.8300e-003	4.5500e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.9000e-004	0.0000	1.6945	1.6945	6.0000e-005	0.0000	1.6960

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.47	5.69	4.19	3,731	3,731
Total	0.47	5.69	4.19	3,731	3,731

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.504187	0.038691	0.220388	0.121642	0.020356	0.005773	0.031759	0.047089	0.001411	0.001172	0.005719	0.000756	0.001058

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

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**5.2 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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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					
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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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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			
City Park	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Roseville Dry Creek Trail\_Segment B - Option 5A\_Planting and Erosion Control - Placer County APCD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.0000e-004	0.0000	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	1.0000e-004	0.0000	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	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	1.0000e-004					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
<b>Total</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



Roseville Dry Creek Trail\_Segment B - Option 5A\_Planting and Erosion Control - Placer County APCD Air District, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0000e-004					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
<b>Total</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Roseville Dry Creek Trail\_Segment B - Option 5A\_Planting and Erosion Control - Placer County APCD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.3754	1.0000e-005	0.0000	0.3766
Unmitigated	0.3754	1.0000e-005	0.0000	0.3766

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.29787	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>		<b>0.3754</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3766</b>

Roseville Dry Creek Trail\_Segment B - Option 5A\_Planting and Erosion Control - Placer County APCD Air District, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.29787	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>		<b>0.3754</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3766</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.0600e-003	2.4000e-004	0.0000	0.0101
Unmitigated	4.0600e-003	2.4000e-004	0.0000	0.0101

Roseville Dry Creek Trail\_Segment B - Option 5A\_Planting and Erosion Control - Placer County APCD Air District, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.02	4.0600e-003	2.4000e-004	0.0000	0.0101
<b>Total</b>		<b>4.0600e-003</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0101</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.02	4.0600e-003	2.4000e-004	0.0000	0.0101
<b>Total</b>		<b>4.0600e-003</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0101</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Roseville Dry Creek Trail\_Segment B - Option 5A\_Planting and Erosion Control - Placer County APCD Air District, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Roseville Dry Creek Trail\_Segment C\_Clearing and Grading - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment C\_Clearing and Grading  
Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	5.00	Acre	5.00	217,800.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	74
<b>Climate Zone</b>	2			<b>Operational Year</b>	2023
<b>Utility Company</b>	Roseville Electric				
<b>CO2 Intensity (lb/MW hr)</b>	793.8	<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 - Notes

Land Use - Acres value based on assumption of average of 20 feet disturbance on either side of centerline, for 5,100 ft (1.0 miles)

Construction Phase - Per Table 3: Construction Phases and Equipment - Segment C, provided by Psomas, September 2017.

Off-road Equipment - Per Table 3: Construction Phases and Equipment - Segment C, provided by Psomas, September 2017.

Trips and VMT - Assume 10 avg employees on site in all phases, 4 vendor trips/day. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, September 2017.

Grading - Acres value based on assumption of average of 20 feet disturbance on either side of centerline, for 5,100 ft (1.0 miles)

## Roseville Dry Creek Trail\_Segment C\_Clearing and Grading - Placer County APCD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	8.00	10.00
tblGrading	AcresOfGrading	2.50	5.00
tblOffRoadEquipment	HorsePower	80.00	247.00
tblOffRoadEquipment	LoadFactor	0.38	0.40
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	PhaseName		Grading
tblOffRoadEquipment	UsageHours	8.00	4.80
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	2.70
tblProjectCharacteristics	OperationalYear	2018	2023
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	25.00	10.00

## 2.0 Emissions Summary

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Roseville Dry Creek Trail\_Segment C\_Clearing and Grading - Placer County APCD Air District, Annual

**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					
2022	8.8400e-003	0.0912	0.0787	1.8000e-004	3.1900e-003	3.8600e-003	7.0500e-003	4.3000e-004	3.5500e-003	3.9800e-003	0.0000	16.2819	16.2819	5.0000e-003	0.0000	16.4068
<b>Maximum</b>	<b>8.8400e-003</b>	<b>0.0912</b>	<b>0.0787</b>	<b>1.8000e-004</b>	<b>3.1900e-003</b>	<b>3.8600e-003</b>	<b>7.0500e-003</b>	<b>4.3000e-004</b>	<b>3.5500e-003</b>	<b>3.9800e-003</b>	<b>0.0000</b>	<b>16.2819</b>	<b>16.2819</b>	<b>5.0000e-003</b>	<b>0.0000</b>	<b>16.4068</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					
2022	8.8400e-003	0.0912	0.0787	1.8000e-004	3.1900e-003	3.8600e-003	7.0500e-003	4.3000e-004	3.5500e-003	3.9800e-003	0.0000	16.2819	16.2819	5.0000e-003	0.0000	16.4068
<b>Maximum</b>	<b>8.8400e-003</b>	<b>0.0912</b>	<b>0.0787</b>	<b>1.8000e-004</b>	<b>3.1900e-003</b>	<b>3.8600e-003</b>	<b>7.0500e-003</b>	<b>4.3000e-004</b>	<b>3.5500e-003</b>	<b>3.9800e-003</b>	<b>0.0000</b>	<b>16.2819</b>	<b>16.2819</b>	<b>5.0000e-003</b>	<b>0.0000</b>	<b>16.4068</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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>



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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-1-2022	6-30-2022	0.1000	0.1000
		Highest	0.1000	0.1000

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.0500e-003	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	8.5300e-003	0.0566	0.0909	3.7000e-004	0.0278	2.6000e-004	0.0280	7.4600e-003	2.4000e-004	7.7100e-003	0.0000	33.8894	33.8894	1.2200e-003	0.0000	33.9199
Waste						0.0000	0.0000		0.0000	0.0000	0.0873	0.0000	0.0873	5.1600e-003	0.0000	0.2163
Water						0.0000	0.0000		0.0000	0.0000	0.0000	7.5076	7.5076	2.7000e-004	6.0000e-005	7.5314
<b>Total</b>	<b>0.0106</b>	<b>0.0566</b>	<b>0.0910</b>	<b>3.7000e-004</b>	<b>0.0278</b>	<b>2.6000e-004</b>	<b>0.0280</b>	<b>7.4600e-003</b>	<b>2.4000e-004</b>	<b>7.7100e-003</b>	<b>0.0873</b>	<b>41.3971</b>	<b>41.4844</b>	<b>6.6500e-003</b>	<b>6.0000e-005</b>	<b>41.6677</b>

Roseville Dry Creek Trail\_Segment C\_Clearing and Grading - Placer County APCD Air District, Annual

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.0500e-003	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	8.5300e-003	0.0566	0.0909	3.7000e-004	0.0278	2.6000e-004	0.0280	7.4600e-003	2.4000e-004	7.7100e-003	0.0000	33.8894	33.8894	1.2200e-003	0.0000	33.9199
Waste						0.0000	0.0000		0.0000	0.0000	0.0873	0.0000	0.0873	5.1600e-003	0.0000	0.2163
Water						0.0000	0.0000		0.0000	0.0000	0.0000	7.5076	7.5076	2.7000e-004	6.0000e-005	7.5314
<b>Total</b>	<b>0.0106</b>	<b>0.0566</b>	<b>0.0910</b>	<b>3.7000e-004</b>	<b>0.0278</b>	<b>2.6000e-004</b>	<b>0.0280</b>	<b>7.4600e-003</b>	<b>2.4000e-004</b>	<b>7.7100e-003</b>	<b>0.0873</b>	<b>41.3971</b>	<b>41.4844</b>	<b>6.6500e-003</b>	<b>6.0000e-005</b>	<b>41.6677</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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	4/1/2022	4/14/2022	5	10	

**Acres of Grading (Site Preparation Phase): 0**

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**Acres of Grading (Grading Phase): 5**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	4.80	158	0.38
Grading	Graders	1	4.00	187	0.41
Grading	Off-Highway Trucks	1	4.00	402	0.38
Grading	Other Construction Equipment	4	4.00	172	0.42
Grading	Rollers	2	4.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	2.70	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
Grading	10	10.00	4.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Roseville Dry Creek Trail\_Segment C\_Clearing and Grading - Placer County APCD Air District, Annual

**3.2 Grading - 2022**

**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					2.6500e-003	0.0000	2.6500e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.6300e-003	0.0888	0.0772	1.7000e-004		3.8500e-003	3.8500e-003		3.5400e-003	3.5400e-003	0.0000	15.3477	15.3477	4.9600e-003	0.0000	15.4718
<b>Total</b>	<b>8.6300e-003</b>	<b>0.0888</b>	<b>0.0772</b>	<b>1.7000e-004</b>	<b>2.6500e-003</b>	<b>3.8500e-003</b>	<b>6.5000e-003</b>	<b>2.9000e-004</b>	<b>3.5400e-003</b>	<b>3.8300e-003</b>	<b>0.0000</b>	<b>15.3477</b>	<b>15.3477</b>	<b>4.9600e-003</b>	<b>0.0000</b>	<b>15.4718</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	1.0000e-005	2.3000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0761	0.0761	0.0000	0.0000	0.0761
Vendor	6.0000e-005	2.0700e-003	3.9000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5432	0.5432	2.0000e-005	0.0000	0.5438
Worker	1.5000e-004	1.0000e-004	1.0900e-003	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.3150	0.3150	1.0000e-005	0.0000	0.3152
<b>Total</b>	<b>2.2000e-004</b>	<b>2.4000e-003</b>	<b>1.5200e-003</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>5.5000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.9342</b>	<b>0.9342</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.9351</b>

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**3.2 Grading - 2022**

**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					2.6500e-003	0.0000	2.6500e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.6300e-003	0.0888	0.0772	1.7000e-004		3.8500e-003	3.8500e-003		3.5400e-003	3.5400e-003	0.0000	15.3477	15.3477	4.9600e-003	0.0000	15.4718
<b>Total</b>	<b>8.6300e-003</b>	<b>0.0888</b>	<b>0.0772</b>	<b>1.7000e-004</b>	<b>2.6500e-003</b>	<b>3.8500e-003</b>	<b>6.5000e-003</b>	<b>2.9000e-004</b>	<b>3.5400e-003</b>	<b>3.8300e-003</b>	<b>0.0000</b>	<b>15.3477</b>	<b>15.3477</b>	<b>4.9600e-003</b>	<b>0.0000</b>	<b>15.4718</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	1.0000e-005	2.3000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0761	0.0761	0.0000	0.0000	0.0761
Vendor	6.0000e-005	2.0700e-003	3.9000e-004	1.0000e-005	1.3000e-004	0.0000	1.3000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.5432	0.5432	2.0000e-005	0.0000	0.5438
Worker	1.5000e-004	1.0000e-004	1.0900e-003	0.0000	3.9000e-004	0.0000	4.0000e-004	1.0000e-004	0.0000	1.1000e-004	0.0000	0.3150	0.3150	1.0000e-005	0.0000	0.3152
<b>Total</b>	<b>2.2000e-004</b>	<b>2.4000e-003</b>	<b>1.5200e-003</b>	<b>1.0000e-005</b>	<b>5.4000e-004</b>	<b>0.0000</b>	<b>5.5000e-004</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.9342</b>	<b>0.9342</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.9351</b>

**4.0 Operational Detail - Mobile**

Roseville Dry Creek Trail\_Segment C\_Clearing and Grading - Placer County APCD Air District, Annual

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	8.5300e-003	0.0566	0.0909	3.7000e-004	0.0278	2.6000e-004	0.0280	7.4600e-003	2.4000e-004	7.7100e-003	0.0000	33.8894	33.8894	1.2200e-003	0.0000	33.9199
Unmitigated	8.5300e-003	0.0566	0.0909	3.7000e-004	0.0278	2.6000e-004	0.0280	7.4600e-003	2.4000e-004	7.7100e-003	0.0000	33.8894	33.8894	1.2200e-003	0.0000	33.9199

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	9.45	113.75	83.70	74,628	74,628
Total	9.45	113.75	83.70	74,628	74,628

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.504187	0.038691	0.220388	0.121642	0.020356	0.005773	0.031759	0.047089	0.001411	0.001172	0.005719	0.000756	0.001058

Roseville Dry Creek Trail\_Segment C\_Clearing and Grading - Placer County APCD Air District, Annual

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

Roseville Dry Creek Trail\_Segment C\_Clearing and Grading - Placer County APCD Air District, Annual

**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	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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						
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	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



Roseville Dry Creek Trail\_Segment C\_Clearing and Grading - Placer County APCD Air District, 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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.0500e-003	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
Unmitigated	2.0500e-003	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.0500e-003					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	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
<b>Total</b>	<b>2.0500e-003</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-004</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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.0500e-003					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	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
<b>Total</b>	<b>2.0500e-003</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Roseville Dry Creek Trail\_Segment C\_Clearing and Grading - Placer County APCD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	7.5076	2.7000e-004	6.0000e-005	7.5314
Unmitigated	7.5076	2.7000e-004	6.0000e-005	7.5314

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 5.95741	7.5076	2.7000e-004	6.0000e-005	7.5314
<b>Total</b>		<b>7.5076</b>	<b>2.7000e-004</b>	<b>6.0000e-005</b>	<b>7.5314</b>

Roseville Dry Creek Trail\_Segment C\_Clearing and Grading - Placer County APCD Air District, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 5.95741	7.5076	2.7000e-004	6.0000e-005	7.5314
<b>Total</b>		<b>7.5076</b>	<b>2.7000e-004</b>	<b>6.0000e-005</b>	<b>7.5314</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0873	5.1600e-003	0.0000	0.2163
Unmitigated	0.0873	5.1600e-003	0.0000	0.2163

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.43	0.0873	5.1600e-003	0.0000	0.2163
<b>Total</b>		<b>0.0873</b>	<b>5.1600e-003</b>	<b>0.0000</b>	<b>0.2163</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.43	0.0873	5.1600e-003	0.0000	0.2163
<b>Total</b>		<b>0.0873</b>	<b>5.1600e-003</b>	<b>0.0000</b>	<b>0.2163</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Roseville Dry Creek Trail\_Segment C\_Clearing and Grading - Placer County APCD Air District, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Roseville Dry Creek Trail\_Segment C\_Drainage and Utilities - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment C\_Drainage and Utilities  
Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	0.25	Acre	0.25	10,890.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	74
<b>Climate Zone</b>	2			<b>Operational Year</b>	2023
<b>Utility Company</b>	Roseville Electric				
<b>CO2 Intensity (lb/MW hr)</b>	793.8	<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 - Notes

Land Use -

Construction Phase - Per Table 3: Construction Phases and Equipment - Segment C, provided by Psomas, September 2017.

Off-road Equipment - Per Table 3: Construction Phases and Equipment - Segment C, provided by Psomas, September 2017.

Trips and VMT - Assume 10 avg employees on site in all phases, 4 vendor trips/day. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, September 2017.



## Roseville Dry Creek Trail\_Segment C\_Drainage and Utilities - Placer County APCD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	20.00
tblOffRoadEquipment	HorsePower	158.00	231.00
tblOffRoadEquipment	HorsePower	8.00	89.00
tblOffRoadEquipment	LoadFactor	0.38	0.29
tblOffRoadEquipment	LoadFactor	0.43	0.20
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblProjectCharacteristics	OperationalYear	2018	2023
tblTripsAndVMT	VendorTripNumber	2.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00

## 2.0 Emissions Summary

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Roseville Dry Creek Trail\_Segment C\_Drainage and Utilities - Placer County APCD Air District, Annual

**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					
2022	2.5900e-003	0.0227	0.0202	7.0000e-005	1.0500e-003	7.3000e-004	1.7800e-003	2.8000e-004	6.7000e-004	9.6000e-004	0.0000	6.5651	6.5651	1.6300e-003	0.0000	6.6059
<b>Maximum</b>	<b>2.5900e-003</b>	<b>0.0227</b>	<b>0.0202</b>	<b>7.0000e-005</b>	<b>1.0500e-003</b>	<b>7.3000e-004</b>	<b>1.7800e-003</b>	<b>2.8000e-004</b>	<b>6.7000e-004</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>6.5651</b>	<b>6.5651</b>	<b>1.6300e-003</b>	<b>0.0000</b>	<b>6.6059</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					
2022	2.5900e-003	0.0227	0.0202	7.0000e-005	1.0500e-003	7.3000e-004	1.7800e-003	2.8000e-004	6.7000e-004	9.6000e-004	0.0000	6.5651	6.5651	1.6300e-003	0.0000	6.6059
<b>Maximum</b>	<b>2.5900e-003</b>	<b>0.0227</b>	<b>0.0202</b>	<b>7.0000e-005</b>	<b>1.0500e-003</b>	<b>7.3000e-004</b>	<b>1.7800e-003</b>	<b>2.8000e-004</b>	<b>6.7000e-004</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>6.5651</b>	<b>6.5651</b>	<b>1.6300e-003</b>	<b>0.0000</b>	<b>6.6059</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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Roseville Dry Creek Trail\_Segment C\_Drainage and Utilities - Placer County APCD Air District, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2022	8-31-2022	0.0252	0.0252
		Highest	0.0252	0.0252

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0000e-004	0.0000	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	4.3000e-004	2.8300e-003	4.5500e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.9000e-004	0.0000	1.6945	1.6945	6.0000e-005	0.0000	1.6960
Waste						0.0000	0.0000		0.0000	0.0000	4.0600e-003	0.0000	4.0600e-003	2.4000e-004	0.0000	0.0101
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.3754	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>	<b>5.3000e-004</b>	<b>2.8300e-003</b>	<b>4.5500e-003</b>	<b>2.0000e-005</b>	<b>1.3900e-003</b>	<b>1.0000e-005</b>	<b>1.4000e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>4.0600e-003</b>	<b>2.0699</b>	<b>2.0739</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>2.0826</b>

Roseville Dry Creek Trail\_Segment C\_Drainage and Utilities - Placer County APCD Air District, Annual

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0000e-004	0.0000	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	4.3000e-004	2.8300e-003	4.5500e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.9000e-004	0.0000	1.6945	1.6945	6.0000e-005	0.0000	1.6960
Waste						0.0000	0.0000		0.0000	0.0000	4.0600e-003	0.0000	4.0600e-003	2.4000e-004	0.0000	0.0101
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.3754	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>	<b>5.3000e-004</b>	<b>2.8300e-003</b>	<b>4.5500e-003</b>	<b>2.0000e-005</b>	<b>1.3900e-003</b>	<b>1.0000e-005</b>	<b>1.4000e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>4.0600e-003</b>	<b>2.0699</b>	<b>2.0739</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>2.0826</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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	6/1/2022	6/28/2022	5	20	

**Acres of Grading (Site Preparation Phase): 0**

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**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Excavators	1	2.00	231	0.29
Building Construction	Off-Highway Trucks	1	2.00	402	0.38
Building Construction	Plate Compactors	2	2.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	1	2.00	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
Building Construction	5	10.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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**3.2 Building Construction - 2022**

**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	2.1700e-003	0.0183	0.0172	6.0000e-005		7.2000e-004	7.2000e-004		6.6000e-004	6.6000e-004	0.0000	4.8488	4.8488	1.5700e-003	0.0000	4.8880
<b>Total</b>	<b>2.1700e-003</b>	<b>0.0183</b>	<b>0.0172</b>	<b>6.0000e-005</b>		<b>7.2000e-004</b>	<b>7.2000e-004</b>		<b>6.6000e-004</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>4.8488</b>	<b>4.8488</b>	<b>1.5700e-003</b>	<b>0.0000</b>	<b>4.8880</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	1.1000e-004	4.1400e-003	7.7000e-004	1.0000e-005	2.6000e-004	1.0000e-005	2.7000e-004	8.0000e-005	1.0000e-005	8.0000e-005	0.0000	1.0864	1.0864	5.0000e-005	0.0000	1.0876
Worker	3.0000e-004	2.0000e-004	2.1900e-003	1.0000e-005	7.9000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6300	0.6300	1.0000e-005	0.0000	0.6303
<b>Total</b>	<b>4.1000e-004</b>	<b>4.3400e-003</b>	<b>2.9600e-003</b>	<b>2.0000e-005</b>	<b>1.0500e-003</b>	<b>1.0000e-005</b>	<b>1.0600e-003</b>	<b>2.9000e-004</b>	<b>1.0000e-005</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>1.7164</b>	<b>1.7164</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.7179</b>

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**3.2 Building Construction - 2022**

**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	2.1700e-003	0.0183	0.0172	6.0000e-005		7.2000e-004	7.2000e-004		6.6000e-004	6.6000e-004	0.0000	4.8488	4.8488	1.5700e-003	0.0000	4.8880
<b>Total</b>	<b>2.1700e-003</b>	<b>0.0183</b>	<b>0.0172</b>	<b>6.0000e-005</b>		<b>7.2000e-004</b>	<b>7.2000e-004</b>		<b>6.6000e-004</b>	<b>6.6000e-004</b>	<b>0.0000</b>	<b>4.8488</b>	<b>4.8488</b>	<b>1.5700e-003</b>	<b>0.0000</b>	<b>4.8880</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	1.1000e-004	4.1400e-003	7.7000e-004	1.0000e-005	2.6000e-004	1.0000e-005	2.7000e-004	8.0000e-005	1.0000e-005	8.0000e-005	0.0000	1.0864	1.0864	5.0000e-005	0.0000	1.0876
Worker	3.0000e-004	2.0000e-004	2.1900e-003	1.0000e-005	7.9000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6300	0.6300	1.0000e-005	0.0000	0.6303
<b>Total</b>	<b>4.1000e-004</b>	<b>4.3400e-003</b>	<b>2.9600e-003</b>	<b>2.0000e-005</b>	<b>1.0500e-003</b>	<b>1.0000e-005</b>	<b>1.0600e-003</b>	<b>2.9000e-004</b>	<b>1.0000e-005</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>1.7164</b>	<b>1.7164</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>1.7179</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.3000e-004	2.8300e-003	4.5500e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.9000e-004	0.0000	1.6945	1.6945	6.0000e-005	0.0000	1.6960
Unmitigated	4.3000e-004	2.8300e-003	4.5500e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.9000e-004	0.0000	1.6945	1.6945	6.0000e-005	0.0000	1.6960

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.47	5.69	4.19	3,731	3,731
Total	0.47	5.69	4.19	3,731	3,731

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.504187	0.038691	0.220388	0.121642	0.020356	0.005773	0.031759	0.047089	0.001411	0.001172	0.005719	0.000756	0.001058



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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

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**5.2 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	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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						
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	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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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			
City Park	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Roseville Dry Creek Trail\_Segment C\_Drainage and Utilities - Placer County APCD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.0000e-004	0.0000	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	1.0000e-004	0.0000	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	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	1.0000e-004					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
<b>Total</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0000e-004					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
<b>Total</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Roseville Dry Creek Trail\_Segment C\_Drainage and Utilities - Placer County APCD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.3754	1.0000e-005	0.0000	0.3766
Unmitigated	0.3754	1.0000e-005	0.0000	0.3766

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.29787	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>		<b>0.3754</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3766</b>

Roseville Dry Creek Trail\_Segment C\_Drainage and Utilities - Placer County APCD Air District, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.29787	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>		<b>0.3754</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3766</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.0600e-003	2.4000e-004	0.0000	0.0101
Unmitigated	4.0600e-003	2.4000e-004	0.0000	0.0101

Roseville Dry Creek Trail\_Segment C\_Drainage and Utilities - Placer County APCD Air District, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.02	4.0600e-003	2.4000e-004	0.0000	0.0101
<b>Total</b>		<b>4.0600e-003</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0101</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.02	4.0600e-003	2.4000e-004	0.0000	0.0101
<b>Total</b>		<b>4.0600e-003</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0101</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Roseville Dry Creek Trail\_Segment C\_Drainage and Utilities - Placer County APCD Air District, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Roseville Dry Creek Trail\_Segment C\_Finish Grading - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment C\_Finish Grading  
Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	5.00	Acre	5.00	217,800.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	74
<b>Climate Zone</b>	2			<b>Operational Year</b>	2023
<b>Utility Company</b>	Roseville Electric				
<b>CO2 Intensity (lb/MW hr)</b>	793.8	<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 - Notes

Land Use - Acres value based on assumption of average of 20 feet disturbance on either side of centerline, for 5,100 ft (1.0 miles)

Construction Phase - Per Table 3: Construction Phases and Equipment - Segment C, provided by Psomas, September 2017.

Off-road Equipment - Per Table 3: Construction Phases and Equipment - Segment C, provided by Psomas, September 2017.

Trips and VMT - Assume 10 avg employees on site in all phases, 4 vendor trips/day. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, September 2017.

Grading - Acres value based on assumption of average of 20 feet disturbance on either side of centerline, for 5,100 ft (1.0 miles)

Off-road Equipment - Per Table 3: Construction Phases and Equipment - Segment C, provided by Psomas, September 2017.

Roseville Dry Creek Trail\_Segment C\_Finish Grading - Placer County APCD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	8.00	15.00
tblConstructionPhase	PhaseEndDate	6/14/2022	6/21/2022
tblGrading	AcresOfGrading	3.75	5.00
tblOffRoadEquipment	HorsePower	80.00	158.00
tblOffRoadEquipment	HorsePower	402.00	247.00
tblOffRoadEquipment	LoadFactor	0.38	0.40
tblOffRoadEquipment	OffRoadEquipmentType	Excavators	Rollers
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2018	2023
tblTripsAndVMT	HaulingTripNumber	0.00	100.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	18.00	10.00

**2.0 Emissions Summary**

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Roseville Dry Creek Trail\_Segment C\_Finish Grading - Placer County APCD Air District, Annual

**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					
2022	0.0133	0.1444	0.1019	2.6000e-004	0.0494	5.8300e-003	0.0553	0.0256	5.3600e-003	0.0309	0.0000	23.5095	23.5095	6.1200e-003	0.0000	23.6625
<b>Maximum</b>	<b>0.0133</b>	<b>0.1444</b>	<b>0.1019</b>	<b>2.6000e-004</b>	<b>0.0494</b>	<b>5.8300e-003</b>	<b>0.0553</b>	<b>0.0256</b>	<b>5.3600e-003</b>	<b>0.0309</b>	<b>0.0000</b>	<b>23.5095</b>	<b>23.5095</b>	<b>6.1200e-003</b>	<b>0.0000</b>	<b>23.6625</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					
2022	0.0133	0.1444	0.1019	2.6000e-004	0.0494	5.8300e-003	0.0553	0.0256	5.3600e-003	0.0309	0.0000	23.5094	23.5094	6.1200e-003	0.0000	23.6625
<b>Maximum</b>	<b>0.0133</b>	<b>0.1444</b>	<b>0.1019</b>	<b>2.6000e-004</b>	<b>0.0494</b>	<b>5.8300e-003</b>	<b>0.0553</b>	<b>0.0256</b>	<b>5.3600e-003</b>	<b>0.0309</b>	<b>0.0000</b>	<b>23.5094</b>	<b>23.5094</b>	<b>6.1200e-003</b>	<b>0.0000</b>	<b>23.6625</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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2022	8-31-2022	0.1574	0.1574
		Highest	0.1574	0.1574

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.0500e-003	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	8.5300e-003	0.0566	0.0909	3.7000e-004	0.0278	2.6000e-004	0.0280	7.4600e-003	2.4000e-004	7.7100e-003	0.0000	33.8894	33.8894	1.2200e-003	0.0000	33.9199
Waste						0.0000	0.0000		0.0000	0.0000	0.0873	0.0000	0.0873	5.1600e-003	0.0000	0.2163
Water						0.0000	0.0000		0.0000	0.0000	0.0000	7.5076	7.5076	2.7000e-004	6.0000e-005	7.5314
<b>Total</b>	<b>0.0106</b>	<b>0.0566</b>	<b>0.0910</b>	<b>3.7000e-004</b>	<b>0.0278</b>	<b>2.6000e-004</b>	<b>0.0280</b>	<b>7.4600e-003</b>	<b>2.4000e-004</b>	<b>7.7100e-003</b>	<b>0.0873</b>	<b>41.3971</b>	<b>41.4844</b>	<b>6.6500e-003</b>	<b>6.0000e-005</b>	<b>41.6677</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	2.0500e-003	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	8.5300e-003	0.0566	0.0909	3.7000e-004	0.0278	2.6000e-004	0.0280	7.4600e-003	2.4000e-004	7.7100e-003	0.0000	33.8894	33.8894	1.2200e-003	0.0000	33.9199
Waste						0.0000	0.0000		0.0000	0.0000	0.0873	0.0000	0.0873	5.1600e-003	0.0000	0.2163
Water						0.0000	0.0000		0.0000	0.0000	0.0000	7.5076	7.5076	2.7000e-004	6.0000e-005	7.5314
<b>Total</b>	<b>0.0106</b>	<b>0.0566</b>	<b>0.0910</b>	<b>3.7000e-004</b>	<b>0.0278</b>	<b>2.6000e-004</b>	<b>0.0280</b>	<b>7.4600e-003</b>	<b>2.4000e-004</b>	<b>7.7100e-003</b>	<b>0.0873</b>	<b>41.3971</b>	<b>41.4844</b>	<b>6.6500e-003</b>	<b>6.0000e-005</b>	<b>41.6677</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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	6/1/2022	6/21/2022	5	15	

**Acres of Grading (Site Preparation Phase): 0**

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**Acres of Grading (Grading Phase): 5**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	8.00	158	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rollers	2	4.00	158	0.38
Grading	Graders	1	4.00	187	0.41
Grading	Off-Highway Trucks	1	4.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	4.00	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
Grading	7	10.00	4.00	100.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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**3.2 Grading - 2022**

**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					0.0478	0.0000	0.0478	0.0251	0.0000	0.0251	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0127	0.1295	0.0976	2.1000e-004		5.7800e-003	5.7800e-003		5.3200e-003	5.3200e-003	0.0000	18.4197	18.4197	5.9600e-003	0.0000	18.5686
<b>Total</b>	<b>0.0127</b>	<b>0.1295</b>	<b>0.0976</b>	<b>2.1000e-004</b>	<b>0.0478</b>	<b>5.7800e-003</b>	<b>0.0536</b>	<b>0.0251</b>	<b>5.3200e-003</b>	<b>0.0304</b>	<b>0.0000</b>	<b>18.4197</b>	<b>18.4197</b>	<b>5.9600e-003</b>	<b>0.0000</b>	<b>18.5686</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	3.5000e-004	0.0116	2.0700e-003	4.0000e-005	8.4000e-004	4.0000e-005	8.8000e-004	2.3000e-004	3.0000e-005	2.7000e-004	0.0000	3.8025	3.8025	1.2000e-004	0.0000	3.8055
Vendor	9.0000e-005	3.1100e-003	5.8000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.0000e-004	6.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.8148	0.8148	4.0000e-005	0.0000	0.8157
Worker	2.3000e-004	1.5000e-004	1.6400e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4725	0.4725	1.0000e-005	0.0000	0.4728
<b>Total</b>	<b>6.7000e-004</b>	<b>0.0149</b>	<b>4.2900e-003</b>	<b>6.0000e-005</b>	<b>1.6300e-003</b>	<b>5.0000e-005</b>	<b>1.6700e-003</b>	<b>4.5000e-004</b>	<b>4.0000e-005</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>5.0898</b>	<b>5.0898</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>5.0939</b>



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**3.2 Grading - 2022**

**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					0.0478	0.0000	0.0478	0.0251	0.0000	0.0251	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0127	0.1295	0.0976	2.1000e-004		5.7800e-003	5.7800e-003		5.3200e-003	5.3200e-003	0.0000	18.4196	18.4196	5.9600e-003	0.0000	18.5686
<b>Total</b>	<b>0.0127</b>	<b>0.1295</b>	<b>0.0976</b>	<b>2.1000e-004</b>	<b>0.0478</b>	<b>5.7800e-003</b>	<b>0.0536</b>	<b>0.0251</b>	<b>5.3200e-003</b>	<b>0.0304</b>	<b>0.0000</b>	<b>18.4196</b>	<b>18.4196</b>	<b>5.9600e-003</b>	<b>0.0000</b>	<b>18.5686</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	3.5000e-004	0.0116	2.0700e-003	4.0000e-005	8.4000e-004	4.0000e-005	8.8000e-004	2.3000e-004	3.0000e-005	2.7000e-004	0.0000	3.8025	3.8025	1.2000e-004	0.0000	3.8055
Vendor	9.0000e-005	3.1100e-003	5.8000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.0000e-004	6.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.8148	0.8148	4.0000e-005	0.0000	0.8157
Worker	2.3000e-004	1.5000e-004	1.6400e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4725	0.4725	1.0000e-005	0.0000	0.4728
<b>Total</b>	<b>6.7000e-004</b>	<b>0.0149</b>	<b>4.2900e-003</b>	<b>6.0000e-005</b>	<b>1.6300e-003</b>	<b>5.0000e-005</b>	<b>1.6700e-003</b>	<b>4.5000e-004</b>	<b>4.0000e-005</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>5.0898</b>	<b>5.0898</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>5.0939</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	8.5300e-003	0.0566	0.0909	3.7000e-004	0.0278	2.6000e-004	0.0280	7.4600e-003	2.4000e-004	7.7100e-003	0.0000	33.8894	33.8894	1.2200e-003	0.0000	33.9199
Unmitigated	8.5300e-003	0.0566	0.0909	3.7000e-004	0.0278	2.6000e-004	0.0280	7.4600e-003	2.4000e-004	7.7100e-003	0.0000	33.8894	33.8894	1.2200e-003	0.0000	33.9199

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	9.45	113.75	83.70	74,628	74,628
Total	9.45	113.75	83.70	74,628	74,628

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.504187	0.038691	0.220388	0.121642	0.020356	0.005773	0.031759	0.047089	0.001411	0.001172	0.005719	0.000756	0.001058

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

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**5.2 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	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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						
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	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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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			
City Park	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.0500e-003	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
Unmitigated	2.0500e-003	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.0500e-003					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	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
<b>Total</b>	<b>2.0500e-003</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-004</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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.0500e-003					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	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
<b>Total</b>	<b>2.0500e-003</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Roseville Dry Creek Trail\_Segment C\_Finish Grading - Placer County APCD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	7.5076	2.7000e-004	6.0000e-005	7.5314
Unmitigated	7.5076	2.7000e-004	6.0000e-005	7.5314

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 5.95741	7.5076	2.7000e-004	6.0000e-005	7.5314
<b>Total</b>		<b>7.5076</b>	<b>2.7000e-004</b>	<b>6.0000e-005</b>	<b>7.5314</b>



Roseville Dry Creek Trail\_Segment C\_Finish Grading - Placer County APCD Air District, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 5.95741	7.5076	2.7000e-004	6.0000e-005	7.5314
<b>Total</b>		<b>7.5076</b>	<b>2.7000e-004</b>	<b>6.0000e-005</b>	<b>7.5314</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0873	5.1600e-003	0.0000	0.2163
Unmitigated	0.0873	5.1600e-003	0.0000	0.2163

Roseville Dry Creek Trail\_Segment C\_Finish Grading - Placer County APCD Air District, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.43	0.0873	5.1600e-003	0.0000	0.2163
<b>Total</b>		<b>0.0873</b>	<b>5.1600e-003</b>	<b>0.0000</b>	<b>0.2163</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.43	0.0873	5.1600e-003	0.0000	0.2163
<b>Total</b>		<b>0.0873</b>	<b>5.1600e-003</b>	<b>0.0000</b>	<b>0.2163</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Roseville Dry Creek Trail\_Segment C\_Finish Grading - Placer County APCD Air District, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Roseville Dry Creek Trail\_Segment C\_Paving - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment C\_Paving**  
**Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	5.00	Acre	5.00	217,800.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	74
<b>Climate Zone</b>	2			<b>Operational Year</b>	2023
<b>Utility Company</b>	Roseville Electric				
<b>CO2 Intensity (lb/MW hr)</b>	793.8	<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 - Notes

Land Use - Acres value based on assumption of average of 20 feet disturbance on either side of centerline, for 5,100 ft (1.0 miles)

Construction Phase - Per Table 3: Construction Phases and Equipment - Segment C, provided by Psomas, September 2017.

Trips and VMT - Assume 10 avg employees on site in all phases, 4 vendor trips/day. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, September 2017.

Off-road Equipment - Per Table 3: Construction Phases and Equipment - Segment C, provided by Psomas, September 2017.

## Roseville Dry Creek Trail\_Segment C\_Paving - Placer County APCD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	18.00	30.00
tblOffRoadEquipment	HorsePower	97.00	132.00
tblOffRoadEquipment	LoadFactor	0.37	0.36
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	OffRoadEquipmentType	Paving Equipment	Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	4.80
tblOffRoadEquipment	UsageHours	8.00	4.80
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2018	2023
tblTripsAndVMT	HaulingTripNumber	0.00	15.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	18.00	10.00

## 2.0 Emissions Summary

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Roseville Dry Creek Trail\_Segment C\_Paving - Placer County APCD Air District, Annual

**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					
2021	0.0124	0.1253	0.1474	2.5000e-004	1.7000e-003	6.2000e-003	7.8900e-003	4.6000e-004	5.7000e-003	6.1600e-003	0.0000	22.4920	22.4920	6.3600e-003	0.0000	22.6509
Maximum	0.0124	0.1253	0.1474	2.5000e-004	1.7000e-003	6.2000e-003	7.8900e-003	4.6000e-004	5.7000e-003	6.1600e-003	0.0000	22.4920	22.4920	6.3600e-003	0.0000	22.6509

**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					
2021	0.0124	0.1253	0.1474	2.5000e-004	1.7000e-003	6.2000e-003	7.8900e-003	4.6000e-004	5.7000e-003	6.1600e-003	0.0000	22.4919	22.4919	6.3600e-003	0.0000	22.6509
Maximum	0.0124	0.1253	0.1474	2.5000e-004	1.7000e-003	6.2000e-003	7.8900e-003	4.6000e-004	5.7000e-003	6.1600e-003	0.0000	22.4919	22.4919	6.3600e-003	0.0000	22.6509

	ROG	NOx	CO	SO2	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

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-1-2021	9-30-2021	0.0983	0.0983
		Highest	0.0983	0.0983

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.0500e-003	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	8.5300e-003	0.0566	0.0909	3.7000e-004	0.0278	2.6000e-004	0.0280	7.4600e-003	2.4000e-004	7.7100e-003	0.0000	33.8894	33.8894	1.2200e-003	0.0000	33.9199
Waste						0.0000	0.0000		0.0000	0.0000	0.0873	0.0000	0.0873	5.1600e-003	0.0000	0.2163
Water						0.0000	0.0000		0.0000	0.0000	0.0000	7.5076	7.5076	2.7000e-004	6.0000e-005	7.5314
<b>Total</b>	<b>0.0106</b>	<b>0.0566</b>	<b>0.0910</b>	<b>3.7000e-004</b>	<b>0.0278</b>	<b>2.6000e-004</b>	<b>0.0280</b>	<b>7.4600e-003</b>	<b>2.4000e-004</b>	<b>7.7100e-003</b>	<b>0.0873</b>	<b>41.3971</b>	<b>41.4844</b>	<b>6.6500e-003</b>	<b>6.0000e-005</b>	<b>41.6677</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	2.0500e-003	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	8.5300e-003	0.0566	0.0909	3.7000e-004	0.0278	2.6000e-004	0.0280	7.4600e-003	2.4000e-004	7.7100e-003	0.0000	33.8894	33.8894	1.2200e-003	0.0000	33.9199
Waste						0.0000	0.0000		0.0000	0.0000	0.0873	0.0000	0.0873	5.1600e-003	0.0000	0.2163
Water						0.0000	0.0000		0.0000	0.0000	0.0000	7.5076	7.5076	2.7000e-004	6.0000e-005	7.5314
<b>Total</b>	<b>0.0106</b>	<b>0.0566</b>	<b>0.0910</b>	<b>3.7000e-004</b>	<b>0.0278</b>	<b>2.6000e-004</b>	<b>0.0280</b>	<b>7.4600e-003</b>	<b>2.4000e-004</b>	<b>7.7100e-003</b>	<b>0.0873</b>	<b>41.3971</b>	<b>41.4844</b>	<b>6.6500e-003</b>	<b>6.0000e-005</b>	<b>41.6677</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
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	Paving	Paving	9/1/2021	10/12/2021	5	30	

Acres of Grading (Site Preparation Phase): 0



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**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Paving Equipment	2	4.00	132	0.36
Paving	Pavers	1	4.80	130	0.42
Paving	Tractors/Loaders/Backhoes	2	4.60	132	0.36
Paving	Rollers	2	4.80	80	0.38

**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
Paving	7	10.00	4.00	15.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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**3.2 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	0.0117	0.1165	0.1423	2.2000e-004		6.1700e-003	6.1700e-003		5.6800e-003	5.6800e-003	0.0000	19.2910	19.2910	6.2400e-003	0.0000	19.4470
Paving	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>0.0117</b>	<b>0.1165</b>	<b>0.1423</b>	<b>2.2000e-004</b>		<b>6.1700e-003</b>	<b>6.1700e-003</b>		<b>5.6800e-003</b>	<b>5.6800e-003</b>	<b>0.0000</b>	<b>19.2910</b>	<b>19.2910</b>	<b>6.2400e-003</b>	<b>0.0000</b>	<b>19.4470</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	6.0000e-005	1.9100e-003	3.2000e-004	1.0000e-005	1.3000e-004	1.0000e-005	1.3000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5770	0.5770	2.0000e-005	0.0000	0.5774
Vendor	1.9000e-004	6.5500e-003	1.2500e-003	2.0000e-005	3.9000e-004	1.0000e-005	4.1000e-004	1.1000e-004	1.0000e-005	1.3000e-004	0.0000	1.6431	1.6431	8.0000e-005	0.0000	1.6450
Worker	4.8000e-004	3.3000e-004	3.5600e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9809	0.9809	2.0000e-005	0.0000	0.9815
<b>Total</b>	<b>7.3000e-004</b>	<b>8.7900e-003</b>	<b>5.1300e-003</b>	<b>4.0000e-005</b>	<b>1.7000e-003</b>	<b>3.0000e-005</b>	<b>1.7300e-003</b>	<b>4.5000e-004</b>	<b>3.0000e-005</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>3.2010</b>	<b>3.2010</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>3.2039</b>

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**3.2 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	0.0117	0.1165	0.1423	2.2000e-004		6.1700e-003	6.1700e-003		5.6800e-003	5.6800e-003	0.0000	19.2910	19.2910	6.2400e-003	0.0000	19.4470
Paving	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>0.0117</b>	<b>0.1165</b>	<b>0.1423</b>	<b>2.2000e-004</b>		<b>6.1700e-003</b>	<b>6.1700e-003</b>		<b>5.6800e-003</b>	<b>5.6800e-003</b>	<b>0.0000</b>	<b>19.2910</b>	<b>19.2910</b>	<b>6.2400e-003</b>	<b>0.0000</b>	<b>19.4470</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	6.0000e-005	1.9100e-003	3.2000e-004	1.0000e-005	1.3000e-004	1.0000e-005	1.3000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.5770	0.5770	2.0000e-005	0.0000	0.5774
Vendor	1.9000e-004	6.5500e-003	1.2500e-003	2.0000e-005	3.9000e-004	1.0000e-005	4.1000e-004	1.1000e-004	1.0000e-005	1.3000e-004	0.0000	1.6431	1.6431	8.0000e-005	0.0000	1.6450
Worker	4.8000e-004	3.3000e-004	3.5600e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9809	0.9809	2.0000e-005	0.0000	0.9815
<b>Total</b>	<b>7.3000e-004</b>	<b>8.7900e-003</b>	<b>5.1300e-003</b>	<b>4.0000e-005</b>	<b>1.7000e-003</b>	<b>3.0000e-005</b>	<b>1.7300e-003</b>	<b>4.5000e-004</b>	<b>3.0000e-005</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>3.2010</b>	<b>3.2010</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>3.2039</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	8.5300e-003	0.0566	0.0909	3.7000e-004	0.0278	2.6000e-004	0.0280	7.4600e-003	2.4000e-004	7.7100e-003	0.0000	33.8894	33.8894	1.2200e-003	0.0000	33.9199
Unmitigated	8.5300e-003	0.0566	0.0909	3.7000e-004	0.0278	2.6000e-004	0.0280	7.4600e-003	2.4000e-004	7.7100e-003	0.0000	33.8894	33.8894	1.2200e-003	0.0000	33.9199

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	9.45	113.75	83.70	74,628	74,628
Total	9.45	113.75	83.70	74,628	74,628

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.504187	0.038691	0.220388	0.121642	0.020356	0.005773	0.031759	0.047089	0.001411	0.001172	0.005719	0.000756	0.001058

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

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**5.2 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	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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						
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	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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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			
City Park	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.0500e-003	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
Unmitigated	2.0500e-003	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.0500e-003					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	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
<b>Total</b>	<b>2.0500e-003</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-004</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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.0500e-003					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	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
<b>Total</b>	<b>2.0500e-003</b>	<b>0.0000</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	7.5076	2.7000e-004	6.0000e-005	7.5314
Unmitigated	7.5076	2.7000e-004	6.0000e-005	7.5314

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 5.95741	7.5076	2.7000e-004	6.0000e-005	7.5314
<b>Total</b>		<b>7.5076</b>	<b>2.7000e-004</b>	<b>6.0000e-005</b>	<b>7.5314</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 / 5.95741	7.5076	2.7000e-004	6.0000e-005	7.5314
<b>Total</b>		<b>7.5076</b>	<b>2.7000e-004</b>	<b>6.0000e-005</b>	<b>7.5314</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0873	5.1600e-003	0.0000	0.2163
Unmitigated	0.0873	5.1600e-003	0.0000	0.2163

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.43	0.0873	5.1600e-003	0.0000	0.2163
<b>Total</b>		<b>0.0873</b>	<b>5.1600e-003</b>	<b>0.0000</b>	<b>0.2163</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.43	0.0873	5.1600e-003	0.0000	0.2163
<b>Total</b>		<b>0.0873</b>	<b>5.1600e-003</b>	<b>0.0000</b>	<b>0.2163</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**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Roseville Dry Creek Trail\_Segment C\_Planting and Erosion Control - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment C\_Planting and Erosion Control  
Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	0.25	Acre	0.25	10,890.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	74
<b>Climate Zone</b>	2			<b>Operational Year</b>	2023
<b>Utility Company</b>	Roseville Electric				
<b>CO2 Intensity (lb/MWhr)</b>	793.8	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - Notes

Land Use -

Construction Phase - Per Table 3: Construction Phases and Equipment - Segment C, provided by Psomas, September 2017.

Off-road Equipment - Per Table 3: Construction Phases and Equipment - Segment C, provided by Psomas, September 2017.

Trips and VMT - Assume 10 avg employees on site in all phases. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, September 2017.

Grading - No grading

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1.00	15.00
tblGrading	AcresOfGrading	0.00	7.50
tblOffRoadEquipment	HorsePower	402.00	187.00
tblOffRoadEquipment	LoadFactor	0.38	0.41
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2018	2023
tblTripsAndVMT	HaulingTripNumber	0.00	1.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00

## 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					
2021	2.2100e-003	0.0181	0.0171	4.0000e-005	4.5700e-003	8.4000e-004	5.4100e-003	5.9000e-004	7.7000e-004	1.3600e-003	0.0000	3.7156	3.7156	1.0400e-003	0.0000	3.7416
<b>Maximum</b>	<b>2.2100e-003</b>	<b>0.0181</b>	<b>0.0171</b>	<b>4.0000e-005</b>	<b>4.5700e-003</b>	<b>8.4000e-004</b>	<b>5.4100e-003</b>	<b>5.9000e-004</b>	<b>7.7000e-004</b>	<b>1.3600e-003</b>	<b>0.0000</b>	<b>3.7156</b>	<b>3.7156</b>	<b>1.0400e-003</b>	<b>0.0000</b>	<b>3.7416</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					
2021	2.2100e-003	0.0181	0.0171	4.0000e-005	4.5700e-003	8.4000e-004	5.4100e-003	5.9000e-004	7.7000e-004	1.3600e-003	0.0000	3.7156	3.7156	1.0400e-003	0.0000	3.7416
<b>Maximum</b>	<b>2.2100e-003</b>	<b>0.0181</b>	<b>0.0171</b>	<b>4.0000e-005</b>	<b>4.5700e-003</b>	<b>8.4000e-004</b>	<b>5.4100e-003</b>	<b>5.9000e-004</b>	<b>7.7000e-004</b>	<b>1.3600e-003</b>	<b>0.0000</b>	<b>3.7156</b>	<b>3.7156</b>	<b>1.0400e-003</b>	<b>0.0000</b>	<b>3.7416</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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>



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

**2.2 Overall Operational**  
**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0000e-004	0.0000	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	4.3000e-004	2.8300e-003	4.5500e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.9000e-004	0.0000	1.6945	1.6945	6.0000e-005	0.0000	1.6960
Waste						0.0000	0.0000		0.0000	0.0000	4.0600e-003	0.0000	4.0600e-003	2.4000e-004	0.0000	0.0101
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.3754	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>	<b>5.3000e-004</b>	<b>2.8300e-003</b>	<b>4.5500e-003</b>	<b>2.0000e-005</b>	<b>1.3900e-003</b>	<b>1.0000e-005</b>	<b>1.4000e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>4.0600e-003</b>	<b>2.0699</b>	<b>2.0739</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>2.0826</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	1.0000e-004	0.0000	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	4.3000e-004	2.8300e-003	4.5500e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.9000e-004	0.0000	1.6945	1.6945	6.0000e-005	0.0000	1.6960
Waste						0.0000	0.0000		0.0000	0.0000	4.0600e-003	0.0000	4.0600e-003	2.4000e-004	0.0000	0.0101
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.3754	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>	<b>5.3000e-004</b>	<b>2.8300e-003</b>	<b>4.5500e-003</b>	<b>2.0000e-005</b>	<b>1.3900e-003</b>	<b>1.0000e-005</b>	<b>1.4000e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.9000e-004</b>	<b>4.0600e-003</b>	<b>2.0699</b>	<b>2.0739</b>	<b>3.1000e-004</b>	<b>0.0000</b>	<b>2.0826</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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/1/2021	10/21/2021	5	15	

**Acres of Grading (Site Preparation Phase): 7.5**

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**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Off-Highway Trucks	1	4.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	4.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	2	10.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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**3.2 Site Preparation - 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					
Fugitive Dust					3.9800e-003	0.0000	3.9800e-003	4.3000e-004	0.0000	4.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9700e-003	0.0178	0.0153	4.0000e-005		8.4000e-004	8.4000e-004		7.7000e-004	7.7000e-004	0.0000	3.1866	3.1866	1.0300e-003	0.0000	3.2124
<b>Total</b>	<b>1.9700e-003</b>	<b>0.0178</b>	<b>0.0153</b>	<b>4.0000e-005</b>	<b>3.9800e-003</b>	<b>8.4000e-004</b>	<b>4.8200e-003</b>	<b>4.3000e-004</b>	<b>7.7000e-004</b>	<b>1.2000e-003</b>	<b>0.0000</b>	<b>3.1866</b>	<b>3.1866</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>3.2124</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	1.3000e-004	2.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0385	0.0385	0.0000	0.0000	0.0385
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	2.4000e-004	1.6000e-004	1.7800e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4905	0.4905	1.0000e-005	0.0000	0.4907
<b>Total</b>	<b>2.4000e-004</b>	<b>2.9000e-004</b>	<b>1.8000e-003</b>	<b>1.0000e-005</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>6.0000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.5289</b>	<b>0.5289</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.5292</b>

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**3.2 Site Preparation - 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					
Fugitive Dust					3.9800e-003	0.0000	3.9800e-003	4.3000e-004	0.0000	4.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9700e-003	0.0178	0.0153	4.0000e-005		8.4000e-004	8.4000e-004		7.7000e-004	7.7000e-004	0.0000	3.1866	3.1866	1.0300e-003	0.0000	3.2124
<b>Total</b>	<b>1.9700e-003</b>	<b>0.0178</b>	<b>0.0153</b>	<b>4.0000e-005</b>	<b>3.9800e-003</b>	<b>8.4000e-004</b>	<b>4.8200e-003</b>	<b>4.3000e-004</b>	<b>7.7000e-004</b>	<b>1.2000e-003</b>	<b>0.0000</b>	<b>3.1866</b>	<b>3.1866</b>	<b>1.0300e-003</b>	<b>0.0000</b>	<b>3.2124</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	1.3000e-004	2.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0385	0.0385	0.0000	0.0000	0.0385
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	2.4000e-004	1.6000e-004	1.7800e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4905	0.4905	1.0000e-005	0.0000	0.4907
<b>Total</b>	<b>2.4000e-004</b>	<b>2.9000e-004</b>	<b>1.8000e-003</b>	<b>1.0000e-005</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>6.0000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.5289</b>	<b>0.5289</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.5292</b>

**4.0 Operational Detail - Mobile**

Roseville Dry Creek Trail\_Segment C\_Planting and Erosion Control - Placer County APCD Air District, Annual

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.3000e-004	2.8300e-003	4.5500e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.9000e-004	0.0000	1.6945	1.6945	6.0000e-005	0.0000	1.6960
Unmitigated	4.3000e-004	2.8300e-003	4.5500e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.9000e-004	0.0000	1.6945	1.6945	6.0000e-005	0.0000	1.6960

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.47	5.69	4.19	3,731	3,731
Total	0.47	5.69	4.19	3,731	3,731

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.504187	0.038691	0.220388	0.121642	0.020356	0.005773	0.031759	0.047089	0.001411	0.001172	0.005719	0.000756	0.001058

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

Roseville Dry Creek Trail\_Segment C\_Planting and Erosion Control - Placer County APCD Air District, Annual

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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					
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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



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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			
City Park	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.0000e-004	0.0000	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	1.0000e-004	0.0000	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	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	1.0000e-004					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
<b>Total</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0000e-004					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
<b>Total</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Roseville Dry Creek Trail\_Segment C\_Planting and Erosion Control - Placer County APCD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.3754	1.0000e-005	0.0000	0.3766
Unmitigated	0.3754	1.0000e-005	0.0000	0.3766

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.29787	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>		<b>0.3754</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3766</b>

Roseville Dry Creek Trail\_Segment C\_Planting and Erosion Control - Placer County APCD Air District, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.29787	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>		<b>0.3754</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3766</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.0600e-003	2.4000e-004	0.0000	0.0101
Unmitigated	4.0600e-003	2.4000e-004	0.0000	0.0101

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.02	4.0600e-003	2.4000e-004	0.0000	0.0101
<b>Total</b>		<b>4.0600e-003</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0101</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.02	4.0600e-003	2.4000e-004	0.0000	0.0101
<b>Total</b>		<b>4.0600e-003</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0101</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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## Roseville Dry Creek Trail\_Segment C\_Planting and Erosion Control - Placer County APCD Air District, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Roseville Dry Creek Trail\_Segment D\_New Bridge 20 - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment D\_New Bridge 20  
Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	0.25	Acre	0.25	10,890.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	74
<b>Climate Zone</b>	2			<b>Operational Year</b>	2025
<b>Utility Company</b>	Roseville Electric				
<b>CO2 Intensity (lb/MW hr)</b>	793.8	<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 - Note

Land Use -

Construction Phase - Per Table 4: Construction Phases and Equipment - Segment D, provided by Psomas, September 2017.

Off-road Equipment - Per Table 4: Construction Phases and Equipment - Segment D, provided by Psomas, September 2017.

Trips and VMT - Assume 10 avg employees on site in all phases, 4 vendor trips/day. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, September 2017.



## Roseville Dry Creek Trail\_Segment D\_New Bridge 20 - Placer County APCD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	50.00
tblOffRoadEquipment	HorsePower	221.00	89.00
tblOffRoadEquipment	HorsePower	158.00	97.00
tblOffRoadEquipment	LoadFactor	0.50	0.20
tblOffRoadEquipment	LoadFactor	0.38	0.37
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	8.00	4.80
tblProjectCharacteristics	OperationalYear	2018	2025
tblTripsAndVMT	HaulingTripNumber	0.00	5.00
tblTripsAndVMT	VendorTripNumber	2.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00

## 2.0 Emissions Summary

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Roseville Dry Creek Trail\_Segment D\_New Bridge 20 - Placer County APCD Air District, Annual

**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					
2023	0.0287	0.2870	0.3033	5.8000e-004	2.6600e-003	0.0130	0.0156	7.2000e-004	0.0122	0.0129	0.0000	50.9602	50.9602	0.0113	0.0000	51.2419
<b>Maximum</b>	<b>0.0287</b>	<b>0.2870</b>	<b>0.3033</b>	<b>5.8000e-004</b>	<b>2.6600e-003</b>	<b>0.0130</b>	<b>0.0156</b>	<b>7.2000e-004</b>	<b>0.0122</b>	<b>0.0129</b>	<b>0.0000</b>	<b>50.9602</b>	<b>50.9602</b>	<b>0.0113</b>	<b>0.0000</b>	<b>51.2419</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					
2023	0.0287	0.2870	0.3033	5.8000e-004	2.6600e-003	0.0130	0.0156	7.2000e-004	0.0122	0.0129	0.0000	50.9601	50.9601	0.0113	0.0000	51.2418
<b>Maximum</b>	<b>0.0287</b>	<b>0.2870</b>	<b>0.3033</b>	<b>5.8000e-004</b>	<b>2.6600e-003</b>	<b>0.0130</b>	<b>0.0156</b>	<b>7.2000e-004</b>	<b>0.0122</b>	<b>0.0129</b>	<b>0.0000</b>	<b>50.9601</b>	<b>50.9601</b>	<b>0.0113</b>	<b>0.0000</b>	<b>51.2418</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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Roseville Dry Creek Trail\_Segment D\_New Bridge 20 - Placer County APCD Air District, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2023	8-31-2023	0.3156	0.3156
		Highest	0.3156	0.3156

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0000e-004	0.0000	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	3.8000e-004	2.6600e-003	3.9700e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.6004	1.6004	5.0000e-005	0.0000	1.6017
Waste						0.0000	0.0000		0.0000	0.0000	4.0600e-003	0.0000	4.0600e-003	2.4000e-004	0.0000	0.0101
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.3754	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>	<b>4.8000e-004</b>	<b>2.6600e-003</b>	<b>3.9700e-003</b>	<b>2.0000e-005</b>	<b>1.3900e-003</b>	<b>1.0000e-005</b>	<b>1.4000e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>4.0600e-003</b>	<b>1.9757</b>	<b>1.9798</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>1.9884</b>

Roseville Dry Creek Trail\_Segment D\_New Bridge 20 - Placer County APCD Air District, Annual

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0000e-004	0.0000	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	3.8000e-004	2.6600e-003	3.9700e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.6004	1.6004	5.0000e-005	0.0000	1.6017
Waste						0.0000	0.0000		0.0000	0.0000	4.0600e-003	0.0000	4.0600e-003	2.4000e-004	0.0000	0.0101
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.3754	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>	<b>4.8000e-004</b>	<b>2.6600e-003</b>	<b>3.9700e-003</b>	<b>2.0000e-005</b>	<b>1.3900e-003</b>	<b>1.0000e-005</b>	<b>1.4000e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>4.0600e-003</b>	<b>1.9757</b>	<b>1.9798</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>1.9884</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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	6/1/2023	8/9/2023	5	50	

**Acres of Grading (Site Preparation Phase): 0**

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**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Bore/Drill Rigs	1	8.00	89	0.20
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Excavators	1	8.00	97	0.37
Building Construction	Forklifts	0	6.00	89	0.20
Building Construction	Paving Equipment	1	2.00	132	0.36
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Rollers	1	4.80	80	0.38
Building Construction	Tractors/Loaders/Backhoes	1	4.80	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
Building Construction	7	10.00	4.00	5.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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**3.2 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0277	0.2776	0.2965	5.3000e-004		0.0129	0.0129		0.0122	0.0122	0.0000	46.5926	46.5926	0.0112	0.0000	46.8712
<b>Total</b>	<b>0.0277</b>	<b>0.2776</b>	<b>0.2965</b>	<b>5.3000e-004</b>		<b>0.0129</b>	<b>0.0129</b>		<b>0.0122</b>	<b>0.0122</b>	<b>0.0000</b>	<b>46.5926</b>	<b>46.5926</b>	<b>0.0112</b>	<b>0.0000</b>	<b>46.8712</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	1.0000e-005	4.3000e-004	9.0000e-005	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1854	0.1854	0.0000	0.0000	0.1855
Vendor	2.2000e-004	8.5700e-003	1.6800e-003	3.0000e-005	6.5000e-004	1.0000e-005	6.6000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	2.6672	2.6672	9.0000e-005	0.0000	2.6694
Worker	7.1000e-004	4.4000e-004	5.0300e-003	2.0000e-005	1.9600e-003	1.0000e-005	1.9800e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.5150	1.5150	3.0000e-005	0.0000	1.5158
<b>Total</b>	<b>9.4000e-004</b>	<b>9.4400e-003</b>	<b>6.8000e-003</b>	<b>5.0000e-005</b>	<b>2.6500e-003</b>	<b>2.0000e-005</b>	<b>2.6800e-003</b>	<b>7.2000e-004</b>	<b>2.0000e-005</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>4.3676</b>	<b>4.3676</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>4.3707</b>

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**3.2 Building Construction - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0277	0.2776	0.2965	5.3000e-004		0.0129	0.0129		0.0122	0.0122	0.0000	46.5925	46.5925	0.0112	0.0000	46.8711
<b>Total</b>	<b>0.0277</b>	<b>0.2776</b>	<b>0.2965</b>	<b>5.3000e-004</b>		<b>0.0129</b>	<b>0.0129</b>		<b>0.0122</b>	<b>0.0122</b>	<b>0.0000</b>	<b>46.5925</b>	<b>46.5925</b>	<b>0.0112</b>	<b>0.0000</b>	<b>46.8711</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	1.0000e-005	4.3000e-004	9.0000e-005	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1854	0.1854	0.0000	0.0000	0.1855
Vendor	2.2000e-004	8.5700e-003	1.6800e-003	3.0000e-005	6.5000e-004	1.0000e-005	6.6000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	2.6672	2.6672	9.0000e-005	0.0000	2.6694
Worker	7.1000e-004	4.4000e-004	5.0300e-003	2.0000e-005	1.9600e-003	1.0000e-005	1.9800e-003	5.2000e-004	1.0000e-005	5.3000e-004	0.0000	1.5150	1.5150	3.0000e-005	0.0000	1.5158
<b>Total</b>	<b>9.4000e-004</b>	<b>9.4400e-003</b>	<b>6.8000e-003</b>	<b>5.0000e-005</b>	<b>2.6500e-003</b>	<b>2.0000e-005</b>	<b>2.6800e-003</b>	<b>7.2000e-004</b>	<b>2.0000e-005</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>4.3676</b>	<b>4.3676</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>4.3707</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.8000e-004	2.6600e-003	3.9700e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.6004	1.6004	5.0000e-005	0.0000	1.6017
Unmitigated	3.8000e-004	2.6600e-003	3.9700e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.6004	1.6004	5.0000e-005	0.0000	1.6017

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.47	5.69	4.19	3,731	3,731
Total	0.47	5.69	4.19	3,731	3,731

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922



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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

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**5.2 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	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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						
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	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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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			
City Park	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.0000e-004	0.0000	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	1.0000e-004	0.0000	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	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	1.0000e-004					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
<b>Total</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0000e-004					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
<b>Total</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.3754	1.0000e-005	0.0000	0.3766
Unmitigated	0.3754	1.0000e-005	0.0000	0.3766

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.29787	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>		<b>0.3754</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3766</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 / 0.29787	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>		<b>0.3754</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3766</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.0600e-003	2.4000e-004	0.0000	0.0101
Unmitigated	4.0600e-003	2.4000e-004	0.0000	0.0101

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.02	4.0600e-003	2.4000e-004	0.0000	0.0101
<b>Total</b>		<b>4.0600e-003</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0101</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.02	4.0600e-003	2.4000e-004	0.0000	0.0101
<b>Total</b>		<b>4.0600e-003</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0101</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**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Roseville Dry Creek Trail\_Segment D\_Existing Bridge 21 - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment D\_Existing Bridge 21  
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**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	0.25	Acre	0.25	10,890.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	74
<b>Climate Zone</b>	2			<b>Operational Year</b>	2025
<b>Utility Company</b>	Roseville Electric				
<b>CO2 Intensity (lb/MW hr)</b>	793.8	<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 - Note

Land Use -

Construction Phase - Per Table 4: Construction Phases and Equipment - Segment D, provided by Psomas, September 2017.

Off-road Equipment - Per Table 4: Construction Phases and Equipment - Segment D, provided by Psomas, September 2017.

Trips and VMT - Assume 10 avg employees on site in all phases, 4 vendor trips/day. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, September 2017.

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	30.00
tblOffRoadEquipment	HorsePower	158.00	89.00
tblOffRoadEquipment	HorsePower	84.00	231.00
tblOffRoadEquipment	LoadFactor	0.38	0.20
tblOffRoadEquipment	LoadFactor	0.74	0.29
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	2.70
tblProjectCharacteristics	OperationalYear	2018	2025
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	2.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00

**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					
2023	0.0139	0.1356	0.1577	2.9000e-004	1.5900e-003	6.5400e-003	8.1300e-003	4.3000e-004	6.0400e-003	6.4700e-003	0.0000	25.3299	25.3299	6.5100e-003	0.0000	25.4926
<b>Maximum</b>	<b>0.0139</b>	<b>0.1356</b>	<b>0.1577</b>	<b>2.9000e-004</b>	<b>1.5900e-003</b>	<b>6.5400e-003</b>	<b>8.1300e-003</b>	<b>4.3000e-004</b>	<b>6.0400e-003</b>	<b>6.4700e-003</b>	<b>0.0000</b>	<b>25.3299</b>	<b>25.3299</b>	<b>6.5100e-003</b>	<b>0.0000</b>	<b>25.4926</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					
2023	0.0139	0.1356	0.1577	2.9000e-004	1.5900e-003	6.5400e-003	8.1300e-003	4.3000e-004	6.0400e-003	6.4700e-003	0.0000	25.3299	25.3299	6.5100e-003	0.0000	25.4926
<b>Maximum</b>	<b>0.0139</b>	<b>0.1356</b>	<b>0.1577</b>	<b>2.9000e-004</b>	<b>1.5900e-003</b>	<b>6.5400e-003</b>	<b>8.1300e-003</b>	<b>4.3000e-004</b>	<b>6.0400e-003</b>	<b>6.4700e-003</b>	<b>0.0000</b>	<b>25.3299</b>	<b>25.3299</b>	<b>6.5100e-003</b>	<b>0.0000</b>	<b>25.4926</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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-1-2023	9-30-2023	0.1494	0.1494
		Highest	0.1494	0.1494

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0000e-004	0.0000	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	3.8000e-004	2.6600e-003	3.9700e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.6004	1.6004	5.0000e-005	0.0000	1.6017
Waste						0.0000	0.0000		0.0000	0.0000	4.0600e-003	0.0000	4.0600e-003	2.4000e-004	0.0000	0.0101
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.3754	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>	<b>4.8000e-004</b>	<b>2.6600e-003</b>	<b>3.9700e-003</b>	<b>2.0000e-005</b>	<b>1.3900e-003</b>	<b>1.0000e-005</b>	<b>1.4000e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>4.0600e-003</b>	<b>1.9757</b>	<b>1.9798</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>1.9884</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	1.0000e-004	0.0000	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	3.8000e-004	2.6600e-003	3.9700e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.6004	1.6004	5.0000e-005	0.0000	1.6017
Waste						0.0000	0.0000		0.0000	0.0000	4.0600e-003	0.0000	4.0600e-003	2.4000e-004	0.0000	0.0101
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.3754	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>	<b>4.8000e-004</b>	<b>2.6600e-003</b>	<b>3.9700e-003</b>	<b>2.0000e-005</b>	<b>1.3900e-003</b>	<b>1.0000e-005</b>	<b>1.4000e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>4.0600e-003</b>	<b>1.9757</b>	<b>1.9798</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>1.9884</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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	8/1/2023	9/11/2023	5	30	

**Acres of Grading (Site Preparation Phase): 0**

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**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	0	4.00	231	0.29
Building Construction	Excavators	1	8.00	89	0.20
Building Construction	Forklifts	0	6.00	89	0.20
Building Construction	Generator Sets	1	2.70	231	0.29
Building Construction	Other Construction Equipment	2	8.00	172	0.42
Building Construction	Tractors/Loaders/Backhoes	1	2.70	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
Building Construction	5	10.00	4.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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**3.2 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0133	0.1301	0.1537	2.6000e-004		6.5300e-003	6.5300e-003		6.0200e-003	6.0200e-003	0.0000	22.7464	22.7464	6.4400e-003	0.0000	22.9073
<b>Total</b>	<b>0.0133</b>	<b>0.1301</b>	<b>0.1537</b>	<b>2.6000e-004</b>		<b>6.5300e-003</b>	<b>6.5300e-003</b>		<b>6.0200e-003</b>	<b>6.0200e-003</b>	<b>0.0000</b>	<b>22.7464</b>	<b>22.7464</b>	<b>6.4400e-003</b>	<b>0.0000</b>	<b>22.9073</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	1.0000e-005	1.7000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0742	0.0742	0.0000	0.0000	0.0742
Vendor	1.3000e-004	5.1400e-003	1.0100e-003	2.0000e-005	3.9000e-004	1.0000e-005	4.0000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.6003	1.6003	5.0000e-005	0.0000	1.6016
Worker	4.2000e-004	2.6000e-004	3.0200e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9090	0.9090	2.0000e-005	0.0000	0.9095
<b>Total</b>	<b>5.6000e-004</b>	<b>5.5700e-003</b>	<b>4.0700e-003</b>	<b>3.0000e-005</b>	<b>1.5900e-003</b>	<b>2.0000e-005</b>	<b>1.6100e-003</b>	<b>4.2000e-004</b>	<b>2.0000e-005</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>2.5835</b>	<b>2.5835</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.5853</b>



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**3.2 Building Construction - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0133	0.1301	0.1537	2.6000e-004		6.5300e-003	6.5300e-003		6.0200e-003	6.0200e-003	0.0000	22.7464	22.7464	6.4400e-003	0.0000	22.9073
<b>Total</b>	<b>0.0133</b>	<b>0.1301</b>	<b>0.1537</b>	<b>2.6000e-004</b>		<b>6.5300e-003</b>	<b>6.5300e-003</b>		<b>6.0200e-003</b>	<b>6.0200e-003</b>	<b>0.0000</b>	<b>22.7464</b>	<b>22.7464</b>	<b>6.4400e-003</b>	<b>0.0000</b>	<b>22.9073</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	1.0000e-005	1.7000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0742	0.0742	0.0000	0.0000	0.0742
Vendor	1.3000e-004	5.1400e-003	1.0100e-003	2.0000e-005	3.9000e-004	1.0000e-005	4.0000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.6003	1.6003	5.0000e-005	0.0000	1.6016
Worker	4.2000e-004	2.6000e-004	3.0200e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9090	0.9090	2.0000e-005	0.0000	0.9095
<b>Total</b>	<b>5.6000e-004</b>	<b>5.5700e-003</b>	<b>4.0700e-003</b>	<b>3.0000e-005</b>	<b>1.5900e-003</b>	<b>2.0000e-005</b>	<b>1.6100e-003</b>	<b>4.2000e-004</b>	<b>2.0000e-005</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>2.5835</b>	<b>2.5835</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.5853</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.8000e-004	2.6600e-003	3.9700e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.6004	1.6004	5.0000e-005	0.0000	1.6017
Unmitigated	3.8000e-004	2.6600e-003	3.9700e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.6004	1.6004	5.0000e-005	0.0000	1.6017

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.47	5.69	4.19	3,731	3,731
Total	0.47	5.69	4.19	3,731	3,731

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

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**5.2 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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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					
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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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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			
City Park	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.0000e-004	0.0000	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	1.0000e-004	0.0000	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	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	1.0000e-004					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
<b>Total</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0000e-004					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
<b>Total</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Roseville Dry Creek Trail\_Segment D\_Existing Bridge 21 - Placer County APCD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.3754	1.0000e-005	0.0000	0.3766
Unmitigated	0.3754	1.0000e-005	0.0000	0.3766

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.29787	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>		<b>0.3754</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3766</b>



Roseville Dry Creek Trail\_Segment D\_Existing Bridge 21 - Placer County APCD Air District, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.29787	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>		<b>0.3754</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3766</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.0600e-003	2.4000e-004	0.0000	0.0101
Unmitigated	4.0600e-003	2.4000e-004	0.0000	0.0101

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.02	4.0600e-003	2.4000e-004	0.0000	0.0101
<b>Total</b>		<b>4.0600e-003</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0101</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.02	4.0600e-003	2.4000e-004	0.0000	0.0101
<b>Total</b>		<b>4.0600e-003</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0101</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Roseville Dry Creek Trail\_Segment D\_Existing Bridge 21 - Placer County APCD Air District, Annual

## 10.0 Stationary Equipment

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### Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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## 11.0 Vegetation

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Roseville Dry Creek Trail\_Segment D\_New Bridge 30 - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment D\_New Bridge 30**  
**Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	0.25	Acre	0.25	10,890.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	74
<b>Climate Zone</b>	2			<b>Operational Year</b>	2025
<b>Utility Company</b>	Roseville Electric				
<b>CO2 Intensity (lb/MW hr)</b>	793.8	<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 - Note

Land Use -

Construction Phase - Per Table 4: Construction Phases and Equipment - Segment D, provided by Psomas, September 2017.

Off-road Equipment - Per Table 4: Construction Phases and Equipment - Segment D, provided by Psomas, September 2017.

Trips and VMT - Assume 10 avg employees on site in all phases, 4 vendor trips/day. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, September 2017.

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	40.00
tblOffRoadEquipment	HorsePower	221.00	89.00
tblOffRoadEquipment	HorsePower	158.00	97.00
tblOffRoadEquipment	LoadFactor	0.50	0.20
tblOffRoadEquipment	LoadFactor	0.38	0.37
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	8.00	4.80
tblProjectCharacteristics	OperationalYear	2018	2025
tblTripsAndVMT	HaulingTripNumber	0.00	5.00
tblTripsAndVMT	VendorTripNumber	2.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00

**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					
2024	0.0216	0.2147	0.2410	4.6000e-004	2.1300e-003	9.2700e-003	0.0114	5.8000e-004	8.7200e-003	9.3000e-003	0.0000	40.7471	40.7471	8.9900e-003	0.0000	40.9719
<b>Maximum</b>	<b>0.0216</b>	<b>0.2147</b>	<b>0.2410</b>	<b>4.6000e-004</b>	<b>2.1300e-003</b>	<b>9.2700e-003</b>	<b>0.0114</b>	<b>5.8000e-004</b>	<b>8.7200e-003</b>	<b>9.3000e-003</b>	<b>0.0000</b>	<b>40.7471</b>	<b>40.7471</b>	<b>8.9900e-003</b>	<b>0.0000</b>	<b>40.9719</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					
2024	0.0216	0.2147	0.2410	4.6000e-004	2.1300e-003	9.2700e-003	0.0114	5.8000e-004	8.7200e-003	9.3000e-003	0.0000	40.7471	40.7471	8.9900e-003	0.0000	40.9719
<b>Maximum</b>	<b>0.0216</b>	<b>0.2147</b>	<b>0.2410</b>	<b>4.6000e-004</b>	<b>2.1300e-003</b>	<b>9.2700e-003</b>	<b>0.0114</b>	<b>5.8000e-004</b>	<b>8.7200e-003</b>	<b>9.3000e-003</b>	<b>0.0000</b>	<b>40.7471</b>	<b>40.7471</b>	<b>8.9900e-003</b>	<b>0.0000</b>	<b>40.9719</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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-1-2024	7-31-2024	0.2363	0.2363
		Highest	0.2363	0.2363

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0000e-004	0.0000	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	3.8000e-004	2.6600e-003	3.9700e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.6004	1.6004	5.0000e-005	0.0000	1.6017
Waste						0.0000	0.0000		0.0000	0.0000	4.0600e-003	0.0000	4.0600e-003	2.4000e-004	0.0000	0.0101
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.3754	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>	<b>4.8000e-004</b>	<b>2.6600e-003</b>	<b>3.9700e-003</b>	<b>2.0000e-005</b>	<b>1.3900e-003</b>	<b>1.0000e-005</b>	<b>1.4000e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>4.0600e-003</b>	<b>1.9757</b>	<b>1.9798</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>1.9884</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	1.0000e-004	0.0000	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	3.8000e-004	2.6600e-003	3.9700e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.6004	1.6004	5.0000e-005	0.0000	1.6017
Waste						0.0000	0.0000		0.0000	0.0000	4.0600e-003	0.0000	4.0600e-003	2.4000e-004	0.0000	0.0101
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.3754	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>	<b>4.8000e-004</b>	<b>2.6600e-003</b>	<b>3.9700e-003</b>	<b>2.0000e-005</b>	<b>1.3900e-003</b>	<b>1.0000e-005</b>	<b>1.4000e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>4.0600e-003</b>	<b>1.9757</b>	<b>1.9798</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>1.9884</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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	5/1/2024	6/25/2024	5	40	

**Acres of Grading (Site Preparation Phase): 0**



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**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Bore/Drill Rigs	1	8.00	89	0.20
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Excavators	1	8.00	97	0.37
Building Construction	Forklifts	0	6.00	89	0.20
Building Construction	Paving Equipment	1	2.00	132	0.36
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Rollers	1	4.80	80	0.38
Building Construction	Tractors/Loaders/Backhoes	1	4.80	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
Building Construction	7	10.00	4.00	5.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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**3.2 Building Construction - 2024**

**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	0.0209	0.2072	0.2359	4.3000e-004		9.2500e-003	9.2500e-003		8.7000e-003	8.7000e-003	0.0000	37.2789	37.2789	8.9000e-003	0.0000	37.5013
<b>Total</b>	<b>0.0209</b>	<b>0.2072</b>	<b>0.2359</b>	<b>4.3000e-004</b>		<b>9.2500e-003</b>	<b>9.2500e-003</b>		<b>8.7000e-003</b>	<b>8.7000e-003</b>	<b>0.0000</b>	<b>37.2789</b>	<b>37.2789</b>	<b>8.9000e-003</b>	<b>0.0000</b>	<b>37.5013</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	1.0000e-005	4.2000e-004	9.0000e-005	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1841	0.1841	0.0000	0.0000	0.1843
Vendor	1.7000e-004	6.7600e-003	1.2800e-003	2.0000e-005	5.2000e-004	1.0000e-005	5.3000e-004	1.5000e-004	1.0000e-005	1.6000e-004	0.0000	2.1197	2.1197	7.0000e-005	0.0000	2.1214
Worker	5.3000e-004	3.2000e-004	3.7300e-003	1.0000e-005	1.5700e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.1644	1.1644	2.0000e-005	0.0000	1.1650
<b>Total</b>	<b>7.1000e-004</b>	<b>7.5000e-003</b>	<b>5.1000e-003</b>	<b>3.0000e-005</b>	<b>2.1300e-003</b>	<b>2.0000e-005</b>	<b>2.1500e-003</b>	<b>5.8000e-004</b>	<b>2.0000e-005</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>3.4682</b>	<b>3.4682</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.4706</b>

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**3.2 Building Construction - 2024**

**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	0.0209	0.2072	0.2359	4.3000e-004		9.2500e-003	9.2500e-003		8.7000e-003	8.7000e-003	0.0000	37.2788	37.2788	8.9000e-003	0.0000	37.5013
<b>Total</b>	<b>0.0209</b>	<b>0.2072</b>	<b>0.2359</b>	<b>4.3000e-004</b>		<b>9.2500e-003</b>	<b>9.2500e-003</b>		<b>8.7000e-003</b>	<b>8.7000e-003</b>	<b>0.0000</b>	<b>37.2788</b>	<b>37.2788</b>	<b>8.9000e-003</b>	<b>0.0000</b>	<b>37.5013</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	1.0000e-005	4.2000e-004	9.0000e-005	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.1841	0.1841	0.0000	0.0000	0.1843
Vendor	1.7000e-004	6.7600e-003	1.2800e-003	2.0000e-005	5.2000e-004	1.0000e-005	5.3000e-004	1.5000e-004	1.0000e-005	1.6000e-004	0.0000	2.1197	2.1197	7.0000e-005	0.0000	2.1214
Worker	5.3000e-004	3.2000e-004	3.7300e-003	1.0000e-005	1.5700e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.1644	1.1644	2.0000e-005	0.0000	1.1650
<b>Total</b>	<b>7.1000e-004</b>	<b>7.5000e-003</b>	<b>5.1000e-003</b>	<b>3.0000e-005</b>	<b>2.1300e-003</b>	<b>2.0000e-005</b>	<b>2.1500e-003</b>	<b>5.8000e-004</b>	<b>2.0000e-005</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>3.4682</b>	<b>3.4682</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.4706</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.8000e-004	2.6600e-003	3.9700e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.6004	1.6004	5.0000e-005	0.0000	1.6017
Unmitigated	3.8000e-004	2.6600e-003	3.9700e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.6004	1.6004	5.0000e-005	0.0000	1.6017

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.47	5.69	4.19	3,731	3,731
Total	0.47	5.69	4.19	3,731	3,731

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

Roseville Dry Creek Trail\_Segment D\_New Bridge 30 - Placer County APCD Air District, Annual

**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	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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						
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	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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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			
City Park	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.0000e-004	0.0000	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	1.0000e-004	0.0000	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	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	1.0000e-004					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
<b>Total</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0000e-004					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
<b>Total</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.3754	1.0000e-005	0.0000	0.3766
Unmitigated	0.3754	1.0000e-005	0.0000	0.3766

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.29787	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>		<b>0.3754</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3766</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 / 0.29787	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>		<b>0.3754</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3766</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.0600e-003	2.4000e-004	0.0000	0.0101
Unmitigated	4.0600e-003	2.4000e-004	0.0000	0.0101

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.02	4.0600e-003	2.4000e-004	0.0000	0.0101
<b>Total</b>		<b>4.0600e-003</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0101</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.02	4.0600e-003	2.4000e-004	0.0000	0.0101
<b>Total</b>		<b>4.0600e-003</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0101</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Roseville Dry Creek Trail\_Segment D\_New Bridge 30 - Placer County APCD Air District, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Roseville Dry Creek Trail\_Segment D\_Clearing and Grading - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment D\_Clearing and Grading  
Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	8.50	Acre	8.50	370,260.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	74
<b>Climate Zone</b>	2			<b>Operational Year</b>	2025
<b>Utility Company</b>	Roseville Electric				
<b>CO2 Intensity (lb/MWhr)</b>	793.8	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - Notes

Land Use - Acres value based on assumption of average of 20 feet disturbance on either side of centerline, for 9,050 ft (1.7 miles)

Construction Phase - Per Table 4: Construction Phases and Equipment - Segment D, provided by Psomas, September 2017.

Off-road Equipment - Per Table 4: Construction Phases and Equipment - Segment D, provided by Psomas, September 2017.

Trips and VMT - Assume 10 avg employees on site in all phases, 4 vendor trips/day. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, September 2017.

Grading - Acres value based on assumption of average of 20 feet disturbance on either side of centerline, for 9,050 ft (1.7 miles)

## Roseville Dry Creek Trail\_Segment D\_Clearing and Grading - Placer County APCD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	20.00
tblGrading	AcresOfGrading	5.00	8.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	2.70
tblProjectCharacteristics	OperationalYear	2018	2025
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	28.00	10.00

## 2.0 Emissions Summary

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Roseville Dry Creek Trail\_Segment D\_Clearing and Grading - Placer County APCD Air District, Annual

**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					
2023	0.0184	0.1799	0.1688	3.5000e-004	0.0357	8.1900e-003	0.0439	0.0173	7.5300e-003	0.0249	0.0000	31.0160	31.0160	9.5200e-003	0.0000	31.2539
<b>Maximum</b>	<b>0.0184</b>	<b>0.1799</b>	<b>0.1688</b>	<b>3.5000e-004</b>	<b>0.0357</b>	<b>8.1900e-003</b>	<b>0.0439</b>	<b>0.0173</b>	<b>7.5300e-003</b>	<b>0.0249</b>	<b>0.0000</b>	<b>31.0160</b>	<b>31.0160</b>	<b>9.5200e-003</b>	<b>0.0000</b>	<b>31.2539</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					
2023	0.0184	0.1799	0.1688	3.5000e-004	0.0357	8.1900e-003	0.0439	0.0173	7.5300e-003	0.0249	0.0000	31.0160	31.0160	9.5200e-003	0.0000	31.2538
<b>Maximum</b>	<b>0.0184</b>	<b>0.1799</b>	<b>0.1688</b>	<b>3.5000e-004</b>	<b>0.0357</b>	<b>8.1900e-003</b>	<b>0.0439</b>	<b>0.0173</b>	<b>7.5300e-003</b>	<b>0.0249</b>	<b>0.0000</b>	<b>31.0160</b>	<b>31.0160</b>	<b>9.5200e-003</b>	<b>0.0000</b>	<b>31.2538</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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>



Roseville Dry Creek Trail\_Segment D\_Clearing and Grading - Placer County APCD Air District, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-1-2023	6-30-2023	0.1982	0.1982
		Highest	0.1982	0.1982

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	3.4900e-003	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5000e-004	1.5000e-004	0.0000	0.0000	1.6000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0129	0.0903	0.1351	5.9000e-004	0.0472	4.1000e-004	0.0476	0.0127	3.8000e-004	0.0131	0.0000	54.4120	54.4120	1.8600e-003	0.0000	54.4584
Waste						0.0000	0.0000		0.0000	0.0000	0.1482	0.0000	0.1482	8.7600e-003	0.0000	0.3671
Water						0.0000	0.0000		0.0000	0.0000	0.0000	12.7630	12.7630	4.7000e-004	1.0000e-004	12.8034
<b>Total</b>	<b>0.0164</b>	<b>0.0903</b>	<b>0.1352</b>	<b>5.9000e-004</b>	<b>0.0472</b>	<b>4.1000e-004</b>	<b>0.0476</b>	<b>0.0127</b>	<b>3.8000e-004</b>	<b>0.0131</b>	<b>0.1482</b>	<b>67.1751</b>	<b>67.3233</b>	<b>0.0111</b>	<b>1.0000e-004</b>	<b>67.6290</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	3.4900e-003	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5000e-004	1.5000e-004	0.0000	0.0000	1.6000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0129	0.0903	0.1351	5.9000e-004	0.0472	4.1000e-004	0.0476	0.0127	3.8000e-004	0.0131	0.0000	54.4120	54.4120	1.8600e-003	0.0000	54.4584
Waste						0.0000	0.0000		0.0000	0.0000	0.1482	0.0000	0.1482	8.7600e-003	0.0000	0.3671
Water						0.0000	0.0000		0.0000	0.0000	0.0000	12.7630	12.7630	4.7000e-004	1.0000e-004	12.8034
<b>Total</b>	<b>0.0164</b>	<b>0.0903</b>	<b>0.1352</b>	<b>5.9000e-004</b>	<b>0.0472</b>	<b>4.1000e-004</b>	<b>0.0476</b>	<b>0.0127</b>	<b>3.8000e-004</b>	<b>0.0131</b>	<b>0.1482</b>	<b>67.1751</b>	<b>67.3233</b>	<b>0.0111</b>	<b>1.0000e-004</b>	<b>67.6290</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
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	Initial Clearing and Rough Grading	Site Preparation	4/1/2023	4/28/2023	5	20	

**Acres of Grading (Site Preparation Phase): 0**

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**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Initial Clearing and Rough Grading	Excavators	1	4.80	158	0.38
Initial Clearing and Rough Grading	Graders	1	4.00	187	0.41
Initial Clearing and Rough Grading	Off-Highway Trucks	1	4.00	402	0.38
Initial Clearing and Rough Grading	Other Construction Equipment	4	4.00	172	0.42
Initial Clearing and Rough Grading	Rollers	2	4.00	80	0.38
Initial Clearing and Rough Grading	Rubber Tired Dozers	1	4.00	247	0.40
Initial Clearing and Rough Grading	Tractors/Loaders/Backhoes	1	2.70	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
Initial Clearing and Rough Grading	11	10.00	4.00	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Roseville Dry Creek Trail\_Segment D\_Clearing and Grading - Placer County APCD Air District, Annual

**3.2 Initial Clearing and Rough Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0346	0.0000	0.0346	0.0170	0.0000	0.0170	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0180	0.1761	0.1661	3.3000e-004		8.1800e-003	8.1800e-003		7.5200e-003	7.5200e-003	0.0000	29.2689	29.2689	9.4700e-003	0.0000	29.5056
<b>Total</b>	<b>0.0180</b>	<b>0.1761</b>	<b>0.1661</b>	<b>3.3000e-004</b>	<b>0.0346</b>	<b>8.1800e-003</b>	<b>0.0428</b>	<b>0.0170</b>	<b>7.5200e-003</b>	<b>0.0246</b>	<b>0.0000</b>	<b>29.2689</b>	<b>29.2689</b>	<b>9.4700e-003</b>	<b>0.0000</b>	<b>29.5056</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	1.0000e-005	1.7000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0742	0.0742	0.0000	0.0000	0.0742
Vendor	9.0000e-005	3.4300e-003	6.7000e-004	1.0000e-005	2.6000e-004	0.0000	2.6000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	1.0669	1.0669	4.0000e-005	0.0000	1.0678
Worker	2.8000e-004	1.8000e-004	2.0100e-003	1.0000e-005	7.9000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6060	0.6060	1.0000e-005	0.0000	0.6063
<b>Total</b>	<b>3.8000e-004</b>	<b>3.7800e-003</b>	<b>2.7200e-003</b>	<b>2.0000e-005</b>	<b>1.0700e-003</b>	<b>0.0000</b>	<b>1.0700e-003</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>1.7470</b>	<b>1.7470</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.7483</b>

Roseville Dry Creek Trail\_Segment D\_Clearing and Grading - Placer County APCD Air District, Annual

**3.2 Initial Clearing and Rough Grading - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0346	0.0000	0.0346	0.0170	0.0000	0.0170	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0180	0.1761	0.1661	3.3000e-004		8.1800e-003	8.1800e-003		7.5200e-003	7.5200e-003	0.0000	29.2689	29.2689	9.4700e-003	0.0000	29.5056
<b>Total</b>	<b>0.0180</b>	<b>0.1761</b>	<b>0.1661</b>	<b>3.3000e-004</b>	<b>0.0346</b>	<b>8.1800e-003</b>	<b>0.0428</b>	<b>0.0170</b>	<b>7.5200e-003</b>	<b>0.0246</b>	<b>0.0000</b>	<b>29.2689</b>	<b>29.2689</b>	<b>9.4700e-003</b>	<b>0.0000</b>	<b>29.5056</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	1.0000e-005	1.7000e-004	4.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0742	0.0742	0.0000	0.0000	0.0742
Vendor	9.0000e-005	3.4300e-003	6.7000e-004	1.0000e-005	2.6000e-004	0.0000	2.6000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	1.0669	1.0669	4.0000e-005	0.0000	1.0678
Worker	2.8000e-004	1.8000e-004	2.0100e-003	1.0000e-005	7.9000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6060	0.6060	1.0000e-005	0.0000	0.6063
<b>Total</b>	<b>3.8000e-004</b>	<b>3.7800e-003</b>	<b>2.7200e-003</b>	<b>2.0000e-005</b>	<b>1.0700e-003</b>	<b>0.0000</b>	<b>1.0700e-003</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>1.7470</b>	<b>1.7470</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.7483</b>

**4.0 Operational Detail - Mobile**

Roseville Dry Creek Trail\_Segment D\_Clearing and Grading - Placer County APCD Air District, Annual

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0129	0.0903	0.1351	5.9000e-004	0.0472	4.1000e-004	0.0476	0.0127	3.8000e-004	0.0131	0.0000	54.4120	54.4120	1.8600e-003	0.0000	54.4584
Unmitigated	0.0129	0.0903	0.1351	5.9000e-004	0.0472	4.1000e-004	0.0476	0.0127	3.8000e-004	0.0131	0.0000	54.4120	54.4120	1.8600e-003	0.0000	54.4584

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	16.07	193.38	142.29	126,868	126,868
Total	16.07	193.38	142.29	126,868	126,868

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922

Roseville Dry Creek Trail\_Segment D\_Clearing and Grading - Placer County APCD Air District, Annual

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

Roseville Dry Creek Trail\_Segment D\_Clearing and Grading - Placer County APCD Air District, Annual

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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					
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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



Roseville Dry Creek Trail\_Segment D\_Clearing and Grading - Placer County APCD Air District, 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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.4900e-003	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5000e-004	1.5000e-004	0.0000	0.0000	1.6000e-004
Unmitigated	3.4900e-003	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5000e-004	1.5000e-004	0.0000	0.0000	1.6000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.4800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5000e-004	1.5000e-004	0.0000	0.0000	1.6000e-004
<b>Total</b>	<b>3.4900e-003</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.6000e-004</b>

Roseville Dry Creek Trail\_Segment D\_Clearing and Grading - Placer County APCD Air District, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.4800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5000e-004	1.5000e-004	0.0000	0.0000	1.6000e-004
<b>Total</b>	<b>3.4900e-003</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.6000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Roseville Dry Creek Trail\_Segment D\_Clearing and Grading - Placer County APCD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	12.7630	4.7000e-004	1.0000e-004	12.8034
Unmitigated	12.7630	4.7000e-004	1.0000e-004	12.8034

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 10.1276	12.7630	4.7000e-004	1.0000e-004	12.8034
<b>Total</b>		<b>12.7630</b>	<b>4.7000e-004</b>	<b>1.0000e-004</b>	<b>12.8034</b>

Roseville Dry Creek Trail\_Segment D\_Clearing and Grading - Placer County APCD Air District, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 10.1276	12.7630	4.7000e-004	1.0000e-004	12.8034
<b>Total</b>		<b>12.7630</b>	<b>4.7000e-004</b>	<b>1.0000e-004</b>	<b>12.8034</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.1482	8.7600e-003	0.0000	0.3671
Unmitigated	0.1482	8.7600e-003	0.0000	0.3671

Roseville Dry Creek Trail\_Segment D\_Clearing and Grading - Placer County APCD Air District, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.73	0.1482	8.7600e-003	0.0000	0.3671
<b>Total</b>		<b>0.1482</b>	<b>8.7600e-003</b>	<b>0.0000</b>	<b>0.3671</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.73	0.1482	8.7600e-003	0.0000	0.3671
<b>Total</b>		<b>0.1482</b>	<b>8.7600e-003</b>	<b>0.0000</b>	<b>0.3671</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Roseville Dry Creek Trail\_Segment D\_Clearing and Grading - Placer County APCD Air District, Annual

## 10.0 Stationary Equipment

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### Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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## 11.0 Vegetation

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Roseville Dry Creek Trail\_Segment D\_Drainage and Utilities - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment D\_Drainage and Utilities  
Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	0.25	Acre	0.25	10,890.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	74
<b>Climate Zone</b>	2			<b>Operational Year</b>	2025
<b>Utility Company</b>	Roseville Electric				
<b>CO2 Intensity (lb/MW hr)</b>	793.8	<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 - Notes

Land Use -

Construction Phase - Per Table 4: Construction Phases and Equipment - Segment D, provided by Psomas, September 2017.

Off-road Equipment - Per Table 4: Construction Phases and Equipment - Segment D, provided by Psomas, September 2017.

Trips and VMT - Assume 10 avg employees on site in all phases, 4 vendor trips/day. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, September 2017.



## Roseville Dry Creek Trail\_Segment D\_Drainage and Utilities - Placer County APCD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	20.00
tblOffRoadEquipment	HorsePower	97.00	89.00
tblOffRoadEquipment	HorsePower	158.00	231.00
tblOffRoadEquipment	HorsePower	8.00	97.00
tblOffRoadEquipment	LoadFactor	0.37	0.20
tblOffRoadEquipment	LoadFactor	0.38	0.29
tblOffRoadEquipment	LoadFactor	0.43	0.37
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblProjectCharacteristics	OperationalYear	2018	2025
tblTripsAndVMT	VendorTripNumber	2.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00

## 2.0 Emissions Summary

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Roseville Dry Creek Trail\_Segment D\_Drainage and Utilities - Placer County APCD Air District, Annual

**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					
2023	2.2400e-003	0.0180	0.0169	7.0000e-005	1.0500e-003	5.4000e-004	1.5900e-003	2.8000e-004	5.0000e-004	7.8000e-004	0.0000	6.1802	6.1802	1.5100e-003	0.0000	6.2178
<b>Maximum</b>	<b>2.2400e-003</b>	<b>0.0180</b>	<b>0.0169</b>	<b>7.0000e-005</b>	<b>1.0500e-003</b>	<b>5.4000e-004</b>	<b>1.5900e-003</b>	<b>2.8000e-004</b>	<b>5.0000e-004</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>6.1802</b>	<b>6.1802</b>	<b>1.5100e-003</b>	<b>0.0000</b>	<b>6.2178</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					
2023	2.2400e-003	0.0180	0.0169	7.0000e-005	1.0500e-003	5.4000e-004	1.5900e-003	2.8000e-004	5.0000e-004	7.8000e-004	0.0000	6.1802	6.1802	1.5100e-003	0.0000	6.2178
<b>Maximum</b>	<b>2.2400e-003</b>	<b>0.0180</b>	<b>0.0169</b>	<b>7.0000e-005</b>	<b>1.0500e-003</b>	<b>5.4000e-004</b>	<b>1.5900e-003</b>	<b>2.8000e-004</b>	<b>5.0000e-004</b>	<b>7.8000e-004</b>	<b>0.0000</b>	<b>6.1802</b>	<b>6.1802</b>	<b>1.5100e-003</b>	<b>0.0000</b>	<b>6.2178</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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Roseville Dry Creek Trail\_Segment D\_Drainage and Utilities - Placer County APCD Air District, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2023	9-30-2023	0.0202	0.0202
		Highest	0.0202	0.0202

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0000e-004	0.0000	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	3.8000e-004	2.6600e-003	3.9700e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.6004	1.6004	5.0000e-005	0.0000	1.6017
Waste						0.0000	0.0000		0.0000	0.0000	4.0600e-003	0.0000	4.0600e-003	2.4000e-004	0.0000	0.0101
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.3754	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>	<b>4.8000e-004</b>	<b>2.6600e-003</b>	<b>3.9700e-003</b>	<b>2.0000e-005</b>	<b>1.3900e-003</b>	<b>1.0000e-005</b>	<b>1.4000e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>4.0600e-003</b>	<b>1.9757</b>	<b>1.9798</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>1.9884</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	1.0000e-004	0.0000	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	3.8000e-004	2.6600e-003	3.9700e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.6004	1.6004	5.0000e-005	0.0000	1.6017
Waste						0.0000	0.0000		0.0000	0.0000	4.0600e-003	0.0000	4.0600e-003	2.4000e-004	0.0000	0.0101
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.3754	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>	<b>4.8000e-004</b>	<b>2.6600e-003</b>	<b>3.9700e-003</b>	<b>2.0000e-005</b>	<b>1.3900e-003</b>	<b>1.0000e-005</b>	<b>1.4000e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>4.0600e-003</b>	<b>1.9757</b>	<b>1.9798</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>1.9884</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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	7/1/2023	7/28/2023	5	20	

**Acres of Grading (Site Preparation Phase): 0**

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**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Cranes	0	4.00	231	0.29
Building Construction	Excavators	1	2.00	231	0.29
Building Construction	Forklifts	0	6.00	89	0.20
Building Construction	Off-Highway Trucks	1	2.00	402	0.38
Building Construction	Plate Compactors	2	2.00	97	0.37
Building Construction	Tractors/Loaders/Backhoes	1	2.00	89	0.20

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	5	10.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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**3.2 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.8700e-003	0.0144	0.0142	5.0000e-005		5.3000e-004	5.3000e-004		4.9000e-004	4.9000e-004	0.0000	4.5073	4.5073	1.4600e-003	0.0000	4.5437
<b>Total</b>	<b>1.8700e-003</b>	<b>0.0144</b>	<b>0.0142</b>	<b>5.0000e-005</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>		<b>4.9000e-004</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>4.5073</b>	<b>4.5073</b>	<b>1.4600e-003</b>	<b>0.0000</b>	<b>4.5437</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	9.0000e-005	3.4300e-003	6.7000e-004	1.0000e-005	2.6000e-004	0.0000	2.6000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	1.0669	1.0669	4.0000e-005	0.0000	1.0678
Worker	2.8000e-004	1.8000e-004	2.0100e-003	1.0000e-005	7.9000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6060	0.6060	1.0000e-005	0.0000	0.6063
<b>Total</b>	<b>3.7000e-004</b>	<b>3.6100e-003</b>	<b>2.6800e-003</b>	<b>2.0000e-005</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>1.0500e-003</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>1.6729</b>	<b>1.6729</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.6741</b>

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**3.2 Building Construction - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	1.8700e-003	0.0144	0.0142	5.0000e-005		5.3000e-004	5.3000e-004		4.9000e-004	4.9000e-004	0.0000	4.5073	4.5073	1.4600e-003	0.0000	4.5437
<b>Total</b>	<b>1.8700e-003</b>	<b>0.0144</b>	<b>0.0142</b>	<b>5.0000e-005</b>		<b>5.3000e-004</b>	<b>5.3000e-004</b>		<b>4.9000e-004</b>	<b>4.9000e-004</b>	<b>0.0000</b>	<b>4.5073</b>	<b>4.5073</b>	<b>1.4600e-003</b>	<b>0.0000</b>	<b>4.5437</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	9.0000e-005	3.4300e-003	6.7000e-004	1.0000e-005	2.6000e-004	0.0000	2.6000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	1.0669	1.0669	4.0000e-005	0.0000	1.0678
Worker	2.8000e-004	1.8000e-004	2.0100e-003	1.0000e-005	7.9000e-004	0.0000	7.9000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.6060	0.6060	1.0000e-005	0.0000	0.6063
<b>Total</b>	<b>3.7000e-004</b>	<b>3.6100e-003</b>	<b>2.6800e-003</b>	<b>2.0000e-005</b>	<b>1.0500e-003</b>	<b>0.0000</b>	<b>1.0500e-003</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>1.6729</b>	<b>1.6729</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>1.6741</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.8000e-004	2.6600e-003	3.9700e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.6004	1.6004	5.0000e-005	0.0000	1.6017
Unmitigated	3.8000e-004	2.6600e-003	3.9700e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.6004	1.6004	5.0000e-005	0.0000	1.6017

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.47	5.69	4.19	3,731	3,731
Total	0.47	5.69	4.19	3,731	3,731

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922



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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

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**5.2 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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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					
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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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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			
City Park	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.0000e-004	0.0000	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	1.0000e-004	0.0000	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	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	1.0000e-004					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
<b>Total</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0000e-004					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
<b>Total</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.3754	1.0000e-005	0.0000	0.3766
Unmitigated	0.3754	1.0000e-005	0.0000	0.3766

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.29787	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>		<b>0.3754</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3766</b>

Roseville Dry Creek Trail\_Segment D\_Drainage and Utilities - Placer County APCD Air District, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.29787	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>		<b>0.3754</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3766</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.0600e-003	2.4000e-004	0.0000	0.0101
Unmitigated	4.0600e-003	2.4000e-004	0.0000	0.0101

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.02	4.0600e-003	2.4000e-004	0.0000	0.0101
<b>Total</b>		<b>4.0600e-003</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0101</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.02	4.0600e-003	2.4000e-004	0.0000	0.0101
<b>Total</b>		<b>4.0600e-003</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0101</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Roseville Dry Creek Trail\_Segment D\_Drainage and Utilities - Placer County APCD Air District, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Roseville Dry Creek Trail\_Segment D\_Final Grading - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment D\_Final Grading  
Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	8.50	Acre	8.50	370,260.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	74
<b>Climate Zone</b>	2			<b>Operational Year</b>	2025
<b>Utility Company</b>	Roseville Electric				
<b>CO2 Intensity (lb/MW hr)</b>	793.8	<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 - Note

Land Use - Acres value based on assumption of average of 20 feet disturbance on either side of centerline, for 9,050 ft (1.7 miles)

Construction Phase - Per Table 4: Construction Phases and Equipment - Segment D, provided by Psomas, September 2017.

Off-road Equipment - Per Table 4: Construction Phases and Equipment - Segment D, provided by Psomas, September 2017.

Trips and VMT - Assume 10 avg employees on site in all phases, 4 vendor trips/day. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, September 2017.

Grading - Acres value based on assumption of average of 20 feet disturbance on either side of centerline, for 9,050 ft (1.7 miles)

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	15.00
tblGrading	AcresOfGrading	3.75	8.50
tblOffRoadEquipment	HorsePower	402.00	158.00
tblOffRoadEquipment	HorsePower	80.00	247.00
tblOffRoadEquipment	LoadFactor	0.38	0.40
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2018	2025
tblTripsAndVMT	HaulingTripNumber	0.00	50.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	13.00	10.00

## 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					
2023	5.8100e-003	0.0653	0.0469	1.5000e-004	5.7100e-003	2.1800e-003	7.8900e-003	8.2000e-004	2.0100e-003	2.8200e-003	0.0000	13.6233	13.6233	3.4800e-003	0.0000	13.7103
<b>Maximum</b>	<b>5.8100e-003</b>	<b>0.0653</b>	<b>0.0469</b>	<b>1.5000e-004</b>	<b>5.7100e-003</b>	<b>2.1800e-003</b>	<b>7.8900e-003</b>	<b>8.2000e-004</b>	<b>2.0100e-003</b>	<b>2.8200e-003</b>	<b>0.0000</b>	<b>13.6233</b>	<b>13.6233</b>	<b>3.4800e-003</b>	<b>0.0000</b>	<b>13.7103</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					
2023	5.8100e-003	0.0653	0.0469	1.5000e-004	5.7100e-003	2.1800e-003	7.8900e-003	8.2000e-004	2.0100e-003	2.8200e-003	0.0000	13.6233	13.6233	3.4800e-003	0.0000	13.7103
<b>Maximum</b>	<b>5.8100e-003</b>	<b>0.0653</b>	<b>0.0469</b>	<b>1.5000e-004</b>	<b>5.7100e-003</b>	<b>2.1800e-003</b>	<b>7.8900e-003</b>	<b>8.2000e-004</b>	<b>2.0100e-003</b>	<b>2.8200e-003</b>	<b>0.0000</b>	<b>13.6233</b>	<b>13.6233</b>	<b>3.4800e-003</b>	<b>0.0000</b>	<b>13.7103</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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2023	9-30-2023	0.0710	0.0710
		Highest	0.0710	0.0710

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	3.4900e-003	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5000e-004	1.5000e-004	0.0000	0.0000	1.6000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0129	0.0903	0.1351	5.9000e-004	0.0472	4.1000e-004	0.0476	0.0127	3.8000e-004	0.0131	0.0000	54.4120	54.4120	1.8600e-003	0.0000	54.4584
Waste						0.0000	0.0000		0.0000	0.0000	0.1482	0.0000	0.1482	8.7600e-003	0.0000	0.3671
Water						0.0000	0.0000		0.0000	0.0000	0.0000	12.7630	12.7630	4.7000e-004	1.0000e-004	12.8034
<b>Total</b>	<b>0.0164</b>	<b>0.0903</b>	<b>0.1352</b>	<b>5.9000e-004</b>	<b>0.0472</b>	<b>4.1000e-004</b>	<b>0.0476</b>	<b>0.0127</b>	<b>3.8000e-004</b>	<b>0.0131</b>	<b>0.1482</b>	<b>67.1751</b>	<b>67.3233</b>	<b>0.0111</b>	<b>1.0000e-004</b>	<b>67.6290</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	3.4900e-003	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5000e-004	1.5000e-004	0.0000	0.0000	1.6000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0129	0.0903	0.1351	5.9000e-004	0.0472	4.1000e-004	0.0476	0.0127	3.8000e-004	0.0131	0.0000	54.4120	54.4120	1.8600e-003	0.0000	54.4584
Waste						0.0000	0.0000		0.0000	0.0000	0.1482	0.0000	0.1482	8.7600e-003	0.0000	0.3671
Water						0.0000	0.0000		0.0000	0.0000	0.0000	12.7630	12.7630	4.7000e-004	1.0000e-004	12.8034
<b>Total</b>	<b>0.0164</b>	<b>0.0903</b>	<b>0.1352</b>	<b>5.9000e-004</b>	<b>0.0472</b>	<b>4.1000e-004</b>	<b>0.0476</b>	<b>0.0127</b>	<b>3.8000e-004</b>	<b>0.0131</b>	<b>0.1482</b>	<b>67.1751</b>	<b>67.3233</b>	<b>0.0111</b>	<b>1.0000e-004</b>	<b>67.6290</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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	7/1/2023	7/21/2023	5	15	

**Acres of Grading (Site Preparation Phase): 0**

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**Acres of Grading (Grading Phase): 8.5**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	1	4.00	187	0.41
Grading	Off-Highway Trucks	1	4.00	158	0.38
Grading	Rollers	2	4.00	247	0.40
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	4.00	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
Grading	5	10.00	4.00	50.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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**3.2 Grading - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.5100e-003	0.0000	4.5100e-003	4.9000e-004	0.0000	4.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.4000e-003	0.0583	0.0440	1.2000e-004		2.1700e-003	2.1700e-003		1.9900e-003	1.9900e-003	0.0000	10.5143	10.5143	3.4000e-003	0.0000	10.5993
<b>Total</b>	<b>5.4000e-003</b>	<b>0.0583</b>	<b>0.0440</b>	<b>1.2000e-004</b>	<b>4.5100e-003</b>	<b>2.1700e-003</b>	<b>6.6800e-003</b>	<b>4.9000e-004</b>	<b>1.9900e-003</b>	<b>2.4800e-003</b>	<b>0.0000</b>	<b>10.5143</b>	<b>10.5143</b>	<b>3.4000e-003</b>	<b>0.0000</b>	<b>10.5993</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	1.3000e-004	4.3300e-003	9.0000e-004	2.0000e-005	4.2000e-004	1.0000e-005	4.3000e-004	1.2000e-004	1.0000e-005	1.2000e-004	0.0000	1.8544	1.8544	4.0000e-005	0.0000	1.8555
Vendor	7.0000e-005	2.5700e-003	5.0000e-004	1.0000e-005	2.0000e-004	0.0000	2.0000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.8002	0.8002	3.0000e-005	0.0000	0.8008
Worker	2.1000e-004	1.3000e-004	1.5100e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4545	0.4545	1.0000e-005	0.0000	0.4547
<b>Total</b>	<b>4.1000e-004</b>	<b>7.0300e-003</b>	<b>2.9100e-003</b>	<b>4.0000e-005</b>	<b>1.2100e-003</b>	<b>1.0000e-005</b>	<b>1.2200e-003</b>	<b>3.4000e-004</b>	<b>1.0000e-005</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>3.1090</b>	<b>3.1090</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>3.1110</b>



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**3.2 Grading - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					4.5100e-003	0.0000	4.5100e-003	4.9000e-004	0.0000	4.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.4000e-003	0.0583	0.0440	1.2000e-004		2.1700e-003	2.1700e-003		1.9900e-003	1.9900e-003	0.0000	10.5143	10.5143	3.4000e-003	0.0000	10.5993
<b>Total</b>	<b>5.4000e-003</b>	<b>0.0583</b>	<b>0.0440</b>	<b>1.2000e-004</b>	<b>4.5100e-003</b>	<b>2.1700e-003</b>	<b>6.6800e-003</b>	<b>4.9000e-004</b>	<b>1.9900e-003</b>	<b>2.4800e-003</b>	<b>0.0000</b>	<b>10.5143</b>	<b>10.5143</b>	<b>3.4000e-003</b>	<b>0.0000</b>	<b>10.5993</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	1.3000e-004	4.3300e-003	9.0000e-004	2.0000e-005	4.2000e-004	1.0000e-005	4.3000e-004	1.2000e-004	1.0000e-005	1.2000e-004	0.0000	1.8544	1.8544	4.0000e-005	0.0000	1.8555
Vendor	7.0000e-005	2.5700e-003	5.0000e-004	1.0000e-005	2.0000e-004	0.0000	2.0000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.8002	0.8002	3.0000e-005	0.0000	0.8008
Worker	2.1000e-004	1.3000e-004	1.5100e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4545	0.4545	1.0000e-005	0.0000	0.4547
<b>Total</b>	<b>4.1000e-004</b>	<b>7.0300e-003</b>	<b>2.9100e-003</b>	<b>4.0000e-005</b>	<b>1.2100e-003</b>	<b>1.0000e-005</b>	<b>1.2200e-003</b>	<b>3.4000e-004</b>	<b>1.0000e-005</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>3.1090</b>	<b>3.1090</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>3.1110</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0129	0.0903	0.1351	5.9000e-004	0.0472	4.1000e-004	0.0476	0.0127	3.8000e-004	0.0131	0.0000	54.4120	54.4120	1.8600e-003	0.0000	54.4584
Unmitigated	0.0129	0.0903	0.1351	5.9000e-004	0.0472	4.1000e-004	0.0476	0.0127	3.8000e-004	0.0131	0.0000	54.4120	54.4120	1.8600e-003	0.0000	54.4584

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	16.07	193.38	142.29	126,868	126,868
Total	16.07	193.38	142.29	126,868	126,868

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

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**5.2 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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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					
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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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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			
City Park	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.4900e-003	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5000e-004	1.5000e-004	0.0000	0.0000	1.6000e-004
Unmitigated	3.4900e-003	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5000e-004	1.5000e-004	0.0000	0.0000	1.6000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.4800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5000e-004	1.5000e-004	0.0000	0.0000	1.6000e-004
<b>Total</b>	<b>3.4900e-003</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.6000e-004</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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.4800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5000e-004	1.5000e-004	0.0000	0.0000	1.6000e-004
<b>Total</b>	<b>3.4900e-003</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.6000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	12.7630	4.7000e-004	1.0000e-004	12.8034
Unmitigated	12.7630	4.7000e-004	1.0000e-004	12.8034

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 10.1276	12.7630	4.7000e-004	1.0000e-004	12.8034
<b>Total</b>		<b>12.7630</b>	<b>4.7000e-004</b>	<b>1.0000e-004</b>	<b>12.8034</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 / 10.1276	12.7630	4.7000e-004	1.0000e-004	12.8034
<b>Total</b>		<b>12.7630</b>	<b>4.7000e-004</b>	<b>1.0000e-004</b>	<b>12.8034</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.1482	8.7600e-003	0.0000	0.3671
Unmitigated	0.1482	8.7600e-003	0.0000	0.3671

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.73	0.1482	8.7600e-003	0.0000	0.3671
<b>Total</b>		<b>0.1482</b>	<b>8.7600e-003</b>	<b>0.0000</b>	<b>0.3671</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.73	0.1482	8.7600e-003	0.0000	0.3671
<b>Total</b>		<b>0.1482</b>	<b>8.7600e-003</b>	<b>0.0000</b>	<b>0.3671</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**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Roseville Dry Creek Trail\_Segment D\_Old Auburn Undercrossing - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment D\_Old Auburn Undercrossing  
Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	0.25	Acre	0.25	10,890.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	74
<b>Climate Zone</b>	2			<b>Operational Year</b>	2025
<b>Utility Company</b>	Roseville Electric				
<b>CO2 Intensity (lb/MW hr)</b>	793.8	<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 - Note

Land Use -

Construction Phase - Per Table 4: Construction Phases and Equipment - Segment D, provided by Psomas, September 2017.

Off-road Equipment - Per Table 4: Construction Phases and Equipment - Segment D, provided by Psomas, September 2017.

Trips and VMT - Assume 10 avg employees on site in all phases, 4 vendor trips/day. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, September 2017.

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	30.00
tblOffRoadEquipment	HorsePower	221.00	97.00
tblOffRoadEquipment	HorsePower	158.00	231.00
tblOffRoadEquipment	HorsePower	80.00	89.00
tblOffRoadEquipment	LoadFactor	0.50	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.29
tblOffRoadEquipment	LoadFactor	0.38	0.20
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	4.80
tblProjectCharacteristics	OperationalYear	2018	2025
tblTripsAndVMT	HaulingTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	2.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00

## 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					
2024	0.0104	0.0936	0.1151	2.8000e-004	1.5800e-003	3.6800e-003	5.2600e-003	4.3000e-004	3.3900e-003	3.8200e-003	0.0000	24.8626	24.8626	7.3000e-003	0.0000	25.0451
<b>Maximum</b>	<b>0.0104</b>	<b>0.0936</b>	<b>0.1151</b>	<b>2.8000e-004</b>	<b>1.5800e-003</b>	<b>3.6800e-003</b>	<b>5.2600e-003</b>	<b>4.3000e-004</b>	<b>3.3900e-003</b>	<b>3.8200e-003</b>	<b>0.0000</b>	<b>24.8626</b>	<b>24.8626</b>	<b>7.3000e-003</b>	<b>0.0000</b>	<b>25.0451</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					
2024	0.0104	0.0936	0.1151	2.8000e-004	1.5800e-003	3.6800e-003	5.2600e-003	4.3000e-004	3.3900e-003	3.8200e-003	0.0000	24.8625	24.8625	7.3000e-003	0.0000	25.0451
<b>Maximum</b>	<b>0.0104</b>	<b>0.0936</b>	<b>0.1151</b>	<b>2.8000e-004</b>	<b>1.5800e-003</b>	<b>3.6800e-003</b>	<b>5.2600e-003</b>	<b>4.3000e-004</b>	<b>3.3900e-003</b>	<b>3.8200e-003</b>	<b>0.0000</b>	<b>24.8625</b>	<b>24.8625</b>	<b>7.3000e-003</b>	<b>0.0000</b>	<b>25.0451</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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2024	9-30-2024	0.0990	0.0990
		Highest	0.0990	0.0990

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0000e-004	0.0000	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	3.8000e-004	2.6600e-003	3.9700e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.6004	1.6004	5.0000e-005	0.0000	1.6017
Waste						0.0000	0.0000		0.0000	0.0000	4.0600e-003	0.0000	4.0600e-003	2.4000e-004	0.0000	0.0101
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.3754	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>	<b>4.8000e-004</b>	<b>2.6600e-003</b>	<b>3.9700e-003</b>	<b>2.0000e-005</b>	<b>1.3900e-003</b>	<b>1.0000e-005</b>	<b>1.4000e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>4.0600e-003</b>	<b>1.9757</b>	<b>1.9798</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>1.9884</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	1.0000e-004	0.0000	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	3.8000e-004	2.6600e-003	3.9700e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.6004	1.6004	5.0000e-005	0.0000	1.6017
Waste						0.0000	0.0000		0.0000	0.0000	4.0600e-003	0.0000	4.0600e-003	2.4000e-004	0.0000	0.0101
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.3754	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>	<b>4.8000e-004</b>	<b>2.6600e-003</b>	<b>3.9700e-003</b>	<b>2.0000e-005</b>	<b>1.3900e-003</b>	<b>1.0000e-005</b>	<b>1.4000e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>4.0600e-003</b>	<b>1.9757</b>	<b>1.9798</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>1.9884</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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	7/1/2024	8/9/2024	5	30	

**Acres of Grading (Site Preparation Phase): 0**



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**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Bore/Drill Rigs	1	8.00	97	0.37
Building Construction	Cranes	0	4.00	231	0.29
Building Construction	Excavators	1	4.00	231	0.29
Building Construction	Forklifts	0	6.00	89	0.20
Building Construction	Off-Highway Trucks	1	4.00	402	0.38
Building Construction	Paving Equipment	1	2.00	132	0.36
Building Construction	Rollers	0	8.00	89	0.20
Building Construction	Rollers	1	4.80	80	0.38
Building Construction	Tractors/Loaders/Backhoes	1	4.80	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
Building Construction	6	10.00	4.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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**3.2 Building Construction - 2024**

**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	9.8700e-003	0.0882	0.1113	2.5000e-004		3.6700e-003	3.6700e-003		3.3800e-003	3.3800e-003	0.0000	22.3627	22.3627	7.2300e-003	0.0000	22.5435
<b>Total</b>	<b>9.8700e-003</b>	<b>0.0882</b>	<b>0.1113</b>	<b>2.5000e-004</b>		<b>3.6700e-003</b>	<b>3.6700e-003</b>		<b>3.3800e-003</b>	<b>3.3800e-003</b>	<b>0.0000</b>	<b>22.3627</b>	<b>22.3627</b>	<b>7.2300e-003</b>	<b>0.0000</b>	<b>22.5435</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	8.0000e-005	2.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0368	0.0368	0.0000	0.0000	0.0369
Vendor	1.3000e-004	5.0700e-003	9.6000e-004	2.0000e-005	3.9000e-004	1.0000e-005	4.0000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.5898	1.5898	5.0000e-005	0.0000	1.5910
Worker	4.0000e-004	2.4000e-004	2.7900e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.8733	0.8733	2.0000e-005	0.0000	0.8737
<b>Total</b>	<b>5.3000e-004</b>	<b>5.3900e-003</b>	<b>3.7700e-003</b>	<b>3.0000e-005</b>	<b>1.5800e-003</b>	<b>2.0000e-005</b>	<b>1.6000e-003</b>	<b>4.2000e-004</b>	<b>2.0000e-005</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>2.4999</b>	<b>2.4999</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.5016</b>

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**3.2 Building Construction - 2024**

**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	9.8700e-003	0.0882	0.1113	2.5000e-004		3.6700e-003	3.6700e-003		3.3800e-003	3.3800e-003	0.0000	22.3626	22.3626	7.2300e-003	0.0000	22.5435
<b>Total</b>	<b>9.8700e-003</b>	<b>0.0882</b>	<b>0.1113</b>	<b>2.5000e-004</b>		<b>3.6700e-003</b>	<b>3.6700e-003</b>		<b>3.3800e-003</b>	<b>3.3800e-003</b>	<b>0.0000</b>	<b>22.3626</b>	<b>22.3626</b>	<b>7.2300e-003</b>	<b>0.0000</b>	<b>22.5435</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	8.0000e-005	2.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0368	0.0368	0.0000	0.0000	0.0369
Vendor	1.3000e-004	5.0700e-003	9.6000e-004	2.0000e-005	3.9000e-004	1.0000e-005	4.0000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.5898	1.5898	5.0000e-005	0.0000	1.5910
Worker	4.0000e-004	2.4000e-004	2.7900e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.8733	0.8733	2.0000e-005	0.0000	0.8737
<b>Total</b>	<b>5.3000e-004</b>	<b>5.3900e-003</b>	<b>3.7700e-003</b>	<b>3.0000e-005</b>	<b>1.5800e-003</b>	<b>2.0000e-005</b>	<b>1.6000e-003</b>	<b>4.2000e-004</b>	<b>2.0000e-005</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>2.4999</b>	<b>2.4999</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.5016</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.8000e-004	2.6600e-003	3.9700e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.6004	1.6004	5.0000e-005	0.0000	1.6017
Unmitigated	3.8000e-004	2.6600e-003	3.9700e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.6004	1.6004	5.0000e-005	0.0000	1.6017

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.47	5.69	4.19	3,731	3,731
Total	0.47	5.69	4.19	3,731	3,731

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922

Roseville Dry Creek Trail\_Segment D\_Old Auburn Undercrossing - Placer County APCD Air District, Annual

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

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**5.2 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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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					
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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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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			
City Park	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.0000e-004	0.0000	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	1.0000e-004	0.0000	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	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	1.0000e-004					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
<b>Total</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0000e-004					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
<b>Total</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.3754	1.0000e-005	0.0000	0.3766
Unmitigated	0.3754	1.0000e-005	0.0000	0.3766

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.29787	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>		<b>0.3754</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3766</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 / 0.29787	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>		<b>0.3754</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3766</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.0600e-003	2.4000e-004	0.0000	0.0101
Unmitigated	4.0600e-003	2.4000e-004	0.0000	0.0101

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.02	4.0600e-003	2.4000e-004	0.0000	0.0101
<b>Total</b>		<b>4.0600e-003</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0101</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.02	4.0600e-003	2.4000e-004	0.0000	0.0101
<b>Total</b>		<b>4.0600e-003</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0101</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**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Roseville Dry Creek Trail\_Segment D\_Paving - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment D\_Paving**  
**Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	8.50	Acre	8.50	370,260.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	74
<b>Climate Zone</b>	2			<b>Operational Year</b>	2025
<b>Utility Company</b>	Roseville Electric				
<b>CO2 Intensity (lb/MW hr)</b>	793.8	<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 - Notes

Land Use - Acres value based on assumption of average of 20 feet disturbance on either side of centerline, for 9,050 ft (1.7 miles)

Construction Phase - Per Table 4: Construction Phases and Equipment - Segment D, provided by Psomas, September 2017.

Off-road Equipment - Per Table 4: Construction Phases and Equipment - Segment D, provided by Psomas, September 2017.

Trips and VMT - Assume 10 avg employees on site in all phases, 4 vendor trips/day. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, September 2017.

## Roseville Dry Creek Trail\_Segment D\_Paving - Placer County APCD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	30.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2018	2025
tblTripsAndVMT	HaulingTripNumber	0.00	25.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	18.00	10.00

## 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					
2023	9.2000e-003	0.0929	0.1257	2.2000e-004	1.7800e-003	4.3200e-003	6.1000e-003	4.8000e-004	3.9700e-003	4.4600e-003	0.0000	19.4632	19.4632	5.2800e-003	0.0000	19.5951
<b>Maximum</b>	<b>9.2000e-003</b>	<b>0.0929</b>	<b>0.1257</b>	<b>2.2000e-004</b>	<b>1.7800e-003</b>	<b>4.3200e-003</b>	<b>6.1000e-003</b>	<b>4.8000e-004</b>	<b>3.9700e-003</b>	<b>4.4600e-003</b>	<b>0.0000</b>	<b>19.4632</b>	<b>19.4632</b>	<b>5.2800e-003</b>	<b>0.0000</b>	<b>19.5951</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					
2023	9.2000e-003	0.0929	0.1257	2.2000e-004	1.7800e-003	4.3200e-003	6.1000e-003	4.8000e-004	3.9700e-003	4.4600e-003	0.0000	19.4632	19.4632	5.2800e-003	0.0000	19.5951
<b>Maximum</b>	<b>9.2000e-003</b>	<b>0.0929</b>	<b>0.1257</b>	<b>2.2000e-004</b>	<b>1.7800e-003</b>	<b>4.3200e-003</b>	<b>6.1000e-003</b>	<b>4.8000e-004</b>	<b>3.9700e-003</b>	<b>4.4600e-003</b>	<b>0.0000</b>	<b>19.4632</b>	<b>19.4632</b>	<b>5.2800e-003</b>	<b>0.0000</b>	<b>19.5951</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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>



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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-1-2023	9-30-2023	0.1020	0.1020
		Highest	0.1020	0.1020

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	3.4900e-003	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5000e-004	1.5000e-004	0.0000	0.0000	1.6000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0129	0.0903	0.1351	5.9000e-004	0.0472	4.1000e-004	0.0476	0.0127	3.8000e-004	0.0131	0.0000	54.4120	54.4120	1.8600e-003	0.0000	54.4584
Waste						0.0000	0.0000		0.0000	0.0000	0.1482	0.0000	0.1482	8.7600e-003	0.0000	0.3671
Water						0.0000	0.0000		0.0000	0.0000	0.0000	12.7630	12.7630	4.7000e-004	1.0000e-004	12.8034
<b>Total</b>	<b>0.0164</b>	<b>0.0903</b>	<b>0.1352</b>	<b>5.9000e-004</b>	<b>0.0472</b>	<b>4.1000e-004</b>	<b>0.0476</b>	<b>0.0127</b>	<b>3.8000e-004</b>	<b>0.0131</b>	<b>0.1482</b>	<b>67.1751</b>	<b>67.3233</b>	<b>0.0111</b>	<b>1.0000e-004</b>	<b>67.6290</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	3.4900e-003	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5000e-004	1.5000e-004	0.0000	0.0000	1.6000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0129	0.0903	0.1351	5.9000e-004	0.0472	4.1000e-004	0.0476	0.0127	3.8000e-004	0.0131	0.0000	54.4120	54.4120	1.8600e-003	0.0000	54.4584
Waste						0.0000	0.0000		0.0000	0.0000	0.1482	0.0000	0.1482	8.7600e-003	0.0000	0.3671
Water						0.0000	0.0000		0.0000	0.0000	0.0000	12.7630	12.7630	4.7000e-004	1.0000e-004	12.8034
<b>Total</b>	<b>0.0164</b>	<b>0.0903</b>	<b>0.1352</b>	<b>5.9000e-004</b>	<b>0.0472</b>	<b>4.1000e-004</b>	<b>0.0476</b>	<b>0.0127</b>	<b>3.8000e-004</b>	<b>0.0131</b>	<b>0.1482</b>	<b>67.1751</b>	<b>67.3233</b>	<b>0.0111</b>	<b>1.0000e-004</b>	<b>67.6290</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
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	Paving	Paving	8/1/2023	9/11/2023	5	30	

**Acres of Grading (Site Preparation Phase): 0**

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**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Pavers	1	4.00	130	0.42
Paving	Paving Equipment	2	4.00	132	0.36
Paving	Rollers	2	4.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	4.00	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
Paving	7	10.00	4.00	25.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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**3.2 Paving - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.5800e-003	0.0854	0.1212	1.8000e-004		4.3000e-003	4.3000e-003		3.9600e-003	3.9600e-003	0.0000	16.0267	16.0267	5.1800e-003	0.0000	16.1563
Paving	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>8.5800e-003</b>	<b>0.0854</b>	<b>0.1212</b>	<b>1.8000e-004</b>		<b>4.3000e-003</b>	<b>4.3000e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>16.0267</b>	<b>16.0267</b>	<b>5.1800e-003</b>	<b>0.0000</b>	<b>16.1563</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	7.0000e-005	2.1600e-003	4.5000e-004	1.0000e-005	2.1000e-004	0.0000	2.1000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.9272	0.9272	2.0000e-005	0.0000	0.9277
Vendor	1.3000e-004	5.1400e-003	1.0100e-003	2.0000e-005	3.9000e-004	1.0000e-005	4.0000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.6003	1.6003	5.0000e-005	0.0000	1.6016
Worker	4.2000e-004	2.6000e-004	3.0200e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9090	0.9090	2.0000e-005	0.0000	0.9095
<b>Total</b>	<b>6.2000e-004</b>	<b>7.5600e-003</b>	<b>4.4800e-003</b>	<b>4.0000e-005</b>	<b>1.7800e-003</b>	<b>2.0000e-005</b>	<b>1.8000e-003</b>	<b>4.8000e-004</b>	<b>2.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>3.4365</b>	<b>3.4365</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.4388</b>

Roseville Dry Creek Trail\_Segment D\_Paving - Placer County APCD Air District, Annual

**3.2 Paving - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.5800e-003	0.0854	0.1212	1.8000e-004		4.3000e-003	4.3000e-003		3.9600e-003	3.9600e-003	0.0000	16.0267	16.0267	5.1800e-003	0.0000	16.1563
Paving	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>8.5800e-003</b>	<b>0.0854</b>	<b>0.1212</b>	<b>1.8000e-004</b>		<b>4.3000e-003</b>	<b>4.3000e-003</b>		<b>3.9600e-003</b>	<b>3.9600e-003</b>	<b>0.0000</b>	<b>16.0267</b>	<b>16.0267</b>	<b>5.1800e-003</b>	<b>0.0000</b>	<b>16.1563</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	7.0000e-005	2.1600e-003	4.5000e-004	1.0000e-005	2.1000e-004	0.0000	2.1000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.9272	0.9272	2.0000e-005	0.0000	0.9277
Vendor	1.3000e-004	5.1400e-003	1.0100e-003	2.0000e-005	3.9000e-004	1.0000e-005	4.0000e-004	1.1000e-004	1.0000e-005	1.2000e-004	0.0000	1.6003	1.6003	5.0000e-005	0.0000	1.6016
Worker	4.2000e-004	2.6000e-004	3.0200e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9090	0.9090	2.0000e-005	0.0000	0.9095
<b>Total</b>	<b>6.2000e-004</b>	<b>7.5600e-003</b>	<b>4.4800e-003</b>	<b>4.0000e-005</b>	<b>1.7800e-003</b>	<b>2.0000e-005</b>	<b>1.8000e-003</b>	<b>4.8000e-004</b>	<b>2.0000e-005</b>	<b>5.0000e-004</b>	<b>0.0000</b>	<b>3.4365</b>	<b>3.4365</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.4388</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0129	0.0903	0.1351	5.9000e-004	0.0472	4.1000e-004	0.0476	0.0127	3.8000e-004	0.0131	0.0000	54.4120	54.4120	1.8600e-003	0.0000	54.4584
Unmitigated	0.0129	0.0903	0.1351	5.9000e-004	0.0472	4.1000e-004	0.0476	0.0127	3.8000e-004	0.0131	0.0000	54.4120	54.4120	1.8600e-003	0.0000	54.4584

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	16.07	193.38	142.29	126,868	126,868
Total	16.07	193.38	142.29	126,868	126,868

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

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**5.2 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	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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						
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	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



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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			
City Park	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.4900e-003	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5000e-004	1.5000e-004	0.0000	0.0000	1.6000e-004
Unmitigated	3.4900e-003	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5000e-004	1.5000e-004	0.0000	0.0000	1.6000e-004

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.4800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5000e-004	1.5000e-004	0.0000	0.0000	1.6000e-004
<b>Total</b>	<b>3.4900e-003</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.6000e-004</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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.4800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	8.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5000e-004	1.5000e-004	0.0000	0.0000	1.6000e-004
<b>Total</b>	<b>3.4900e-003</b>	<b>0.0000</b>	<b>8.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.5000e-004</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.6000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Roseville Dry Creek Trail\_Segment D\_Paving - Placer County APCD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	12.7630	4.7000e-004	1.0000e-004	12.8034
Unmitigated	12.7630	4.7000e-004	1.0000e-004	12.8034

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 10.1276	12.7630	4.7000e-004	1.0000e-004	12.8034
<b>Total</b>		<b>12.7630</b>	<b>4.7000e-004</b>	<b>1.0000e-004</b>	<b>12.8034</b>

Roseville Dry Creek Trail\_Segment D\_Paving - Placer County APCD Air District, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 10.1276	12.7630	4.7000e-004	1.0000e-004	12.8034
<b>Total</b>		<b>12.7630</b>	<b>4.7000e-004</b>	<b>1.0000e-004</b>	<b>12.8034</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.1482	8.7600e-003	0.0000	0.3671
Unmitigated	0.1482	8.7600e-003	0.0000	0.3671

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.73	0.1482	8.7600e-003	0.0000	0.3671
<b>Total</b>		<b>0.1482</b>	<b>8.7600e-003</b>	<b>0.0000</b>	<b>0.3671</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.73	0.1482	8.7600e-003	0.0000	0.3671
<b>Total</b>		<b>0.1482</b>	<b>8.7600e-003</b>	<b>0.0000</b>	<b>0.3671</b>

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Roseville Dry Creek Trail\_Segment D\_Paving - Placer County APCD Air District, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Roseville Dry Creek Trail\_Segment D\_Planting and Erosion Control - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment D\_Planting and Erosion Control  
Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	0.25	Acre	0.25	10,890.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	74
<b>Climate Zone</b>	2			<b>Operational Year</b>	2025
<b>Utility Company</b>	Roseville Electric				
<b>CO2 Intensity (lb/MWhr)</b>	793.8	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - Notes

Land Use -

Construction Phase - Per Table 4: Construction Phases and Equipment - Segment D, provided by Psomas, September 2017.

Off-road Equipment - Per Table 4: Construction Phases and Equipment - Segment D, provided by Psomas, September 2017.

Trips and VMT - Assume 10 avg employees on site in all phases. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, September 2017.

Grading - No grading



## Roseville Dry Creek Trail\_Segment D\_Planting and Erosion Control - Placer County APCD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1.00	15.00
tblOffRoadEquipment	HorsePower	402.00	187.00
tblOffRoadEquipment	LoadFactor	0.38	0.41
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2018	2025
tblTripsAndVMT	HaulingTripNumber	0.00	1.00
tblTripsAndVMT	WorkerTripNumber	8.00	10.00

## 2.0 Emissions Summary

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Roseville Dry Creek Trail\_Segment D\_Planting and Erosion Control - Placer County APCD Air District, Annual

**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					
2023	4.7100e-003	0.0483	0.0291	9.0000e-005	4.5700e-003	1.7200e-003	6.2900e-003	5.9000e-004	1.5800e-003	2.1700e-003	0.0000	8.0374	8.0374	2.4500e-003	0.0000	8.0987
<b>Maximum</b>	<b>4.7100e-003</b>	<b>0.0483</b>	<b>0.0291</b>	<b>9.0000e-005</b>	<b>4.5700e-003</b>	<b>1.7200e-003</b>	<b>6.2900e-003</b>	<b>5.9000e-004</b>	<b>1.5800e-003</b>	<b>2.1700e-003</b>	<b>0.0000</b>	<b>8.0374</b>	<b>8.0374</b>	<b>2.4500e-003</b>	<b>0.0000</b>	<b>8.0987</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					
2023	4.7100e-003	0.0483	0.0291	9.0000e-005	4.5700e-003	1.7200e-003	6.2900e-003	5.9000e-004	1.5800e-003	2.1700e-003	0.0000	8.0374	8.0374	2.4500e-003	0.0000	8.0986
<b>Maximum</b>	<b>4.7100e-003</b>	<b>0.0483</b>	<b>0.0291</b>	<b>9.0000e-005</b>	<b>4.5700e-003</b>	<b>1.7200e-003</b>	<b>6.2900e-003</b>	<b>5.9000e-004</b>	<b>1.5800e-003</b>	<b>2.1700e-003</b>	<b>0.0000</b>	<b>8.0374</b>	<b>8.0374</b>	<b>2.4500e-003</b>	<b>0.0000</b>	<b>8.0986</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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0000e-004	0.0000	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	3.8000e-004	2.6600e-003	3.9700e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.6004	1.6004	5.0000e-005	0.0000	1.6017
Waste						0.0000	0.0000		0.0000	0.0000	4.0600e-003	0.0000	4.0600e-003	2.4000e-004	0.0000	0.0101
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.3754	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>	<b>4.8000e-004</b>	<b>2.6600e-003</b>	<b>3.9700e-003</b>	<b>2.0000e-005</b>	<b>1.3900e-003</b>	<b>1.0000e-005</b>	<b>1.4000e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>4.0600e-003</b>	<b>1.9757</b>	<b>1.9798</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>1.9884</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	1.0000e-004	0.0000	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	3.8000e-004	2.6600e-003	3.9700e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.6004	1.6004	5.0000e-005	0.0000	1.6017
Waste						0.0000	0.0000		0.0000	0.0000	4.0600e-003	0.0000	4.0600e-003	2.4000e-004	0.0000	0.0101
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.3754	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>	<b>4.8000e-004</b>	<b>2.6600e-003</b>	<b>3.9700e-003</b>	<b>2.0000e-005</b>	<b>1.3900e-003</b>	<b>1.0000e-005</b>	<b>1.4000e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>4.0600e-003</b>	<b>1.9757</b>	<b>1.9798</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>1.9884</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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/1/2023	10/20/2023	5	15	

**Acres of Grading (Site Preparation Phase): 7.5**

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**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Off-Highway Trucks	1	4.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	10.00	0.00	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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**3.2 Site Preparation - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.9800e-003	0.0000	3.9800e-003	4.3000e-004	0.0000	4.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4900e-003	0.0480	0.0275	9.0000e-005		1.7100e-003	1.7100e-003		1.5800e-003	1.5800e-003	0.0000	7.5458	7.5458	2.4400e-003	0.0000	7.6068
<b>Total</b>	<b>4.4900e-003</b>	<b>0.0480</b>	<b>0.0275</b>	<b>9.0000e-005</b>	<b>3.9800e-003</b>	<b>1.7100e-003</b>	<b>5.6900e-003</b>	<b>4.3000e-004</b>	<b>1.5800e-003</b>	<b>2.0100e-003</b>	<b>0.0000</b>	<b>7.5458</b>	<b>7.5458</b>	<b>2.4400e-003</b>	<b>0.0000</b>	<b>7.6068</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	9.0000e-005	2.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0371	0.0371	0.0000	0.0000	0.0371
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	2.1000e-004	1.3000e-004	1.5100e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4545	0.4545	1.0000e-005	0.0000	0.4547
<b>Total</b>	<b>2.1000e-004</b>	<b>2.2000e-004</b>	<b>1.5300e-003</b>	<b>1.0000e-005</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>6.0000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.4916</b>	<b>0.4916</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4918</b>

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**3.2 Site Preparation - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.9800e-003	0.0000	3.9800e-003	4.3000e-004	0.0000	4.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4900e-003	0.0480	0.0275	9.0000e-005		1.7100e-003	1.7100e-003		1.5800e-003	1.5800e-003	0.0000	7.5458	7.5458	2.4400e-003	0.0000	7.6068
<b>Total</b>	<b>4.4900e-003</b>	<b>0.0480</b>	<b>0.0275</b>	<b>9.0000e-005</b>	<b>3.9800e-003</b>	<b>1.7100e-003</b>	<b>5.6900e-003</b>	<b>4.3000e-004</b>	<b>1.5800e-003</b>	<b>2.0100e-003</b>	<b>0.0000</b>	<b>7.5458</b>	<b>7.5458</b>	<b>2.4400e-003</b>	<b>0.0000</b>	<b>7.6068</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	9.0000e-005	2.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0371	0.0371	0.0000	0.0000	0.0371
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	2.1000e-004	1.3000e-004	1.5100e-003	1.0000e-005	5.9000e-004	0.0000	5.9000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.4545	0.4545	1.0000e-005	0.0000	0.4547
<b>Total</b>	<b>2.1000e-004</b>	<b>2.2000e-004</b>	<b>1.5300e-003</b>	<b>1.0000e-005</b>	<b>6.0000e-004</b>	<b>0.0000</b>	<b>6.0000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.4916</b>	<b>0.4916</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.4918</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.8000e-004	2.6600e-003	3.9700e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.6004	1.6004	5.0000e-005	0.0000	1.6017
Unmitigated	3.8000e-004	2.6600e-003	3.9700e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.6004	1.6004	5.0000e-005	0.0000	1.6017

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.47	5.69	4.19	3,731	3,731
Total	0.47	5.69	4.19	3,731	3,731

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922



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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

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**5.2 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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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					
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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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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			
City Park	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.0000e-004	0.0000	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	1.0000e-004	0.0000	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	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	1.0000e-004					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
<b>Total</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0000e-004					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
<b>Total</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.3754	1.0000e-005	0.0000	0.3766
Unmitigated	0.3754	1.0000e-005	0.0000	0.3766

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.29787	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>		<b>0.3754</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3766</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 / 0.29787	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>		<b>0.3754</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3766</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.0600e-003	2.4000e-004	0.0000	0.0101
Unmitigated	4.0600e-003	2.4000e-004	0.0000	0.0101

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.02	4.0600e-003	2.4000e-004	0.0000	0.0101
<b>Total</b>		<b>4.0600e-003</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0101</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.02	4.0600e-003	2.4000e-004	0.0000	0.0101
<b>Total</b>		<b>4.0600e-003</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0101</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**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Roseville Dry Creek Trail\_Segment D\_Rocky Ridge Undercrossing - Placer County APCD Air District, Annual

**Roseville Dry Creek Trail\_Segment D\_Rocky Ridge Undercrossing  
Placer County APCD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	0.25	Acre	0.25	10,890.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	74
<b>Climate Zone</b>	2			<b>Operational Year</b>	2025
<b>Utility Company</b>	Roseville Electric				
<b>CO2 Intensity (lb/MW hr)</b>	793.8	<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 - Note

Land Use -

Construction Phase - Per Table 4: Construction Phases and Equipment - Segment D, provided by Psomas, September 2017.

Off-road Equipment - Per Table 4: Construction Phases and Equipment - Segment D, provided by Psomas, September 2017.

Trips and VMT - Assume 10 avg employees on site in all phases, 4 vendor trips/day. Hauling mileages & trips based on total truck miles stated in construction phases and equipment list, Psomas, September 2017.

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	40.00
tblOffRoadEquipment	HorsePower	221.00	89.00
tblOffRoadEquipment	HorsePower	158.00	97.00
tblOffRoadEquipment	LoadFactor	0.50	0.20
tblOffRoadEquipment	LoadFactor	0.38	0.37
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblProjectCharacteristics	OperationalYear	2018	2025
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	2.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00

## 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					
2023	0.0382	0.3755	0.4671	8.2000e-004	2.1800e-003	0.0175	0.0197	5.9000e-004	0.0164	0.0169	0.0000	71.8626	71.8626	0.0190	0.0000	72.3377
<b>Maximum</b>	<b>0.0382</b>	<b>0.3755</b>	<b>0.4671</b>	<b>8.2000e-004</b>	<b>2.1800e-003</b>	<b>0.0175</b>	<b>0.0197</b>	<b>5.9000e-004</b>	<b>0.0164</b>	<b>0.0169</b>	<b>0.0000</b>	<b>71.8626</b>	<b>71.8626</b>	<b>0.0190</b>	<b>0.0000</b>	<b>72.3377</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					
2023	0.0382	0.3755	0.4671	8.2000e-004	2.1800e-003	0.0175	0.0197	5.9000e-004	0.0164	0.0169	0.0000	71.8625	71.8625	0.0190	0.0000	72.3376
<b>Maximum</b>	<b>0.0382</b>	<b>0.3755</b>	<b>0.4671</b>	<b>8.2000e-004</b>	<b>2.1800e-003</b>	<b>0.0175</b>	<b>0.0197</b>	<b>5.9000e-004</b>	<b>0.0164</b>	<b>0.0169</b>	<b>0.0000</b>	<b>71.8625</b>	<b>71.8625</b>	<b>0.0190</b>	<b>0.0000</b>	<b>72.3376</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>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2023	9-30-2023	0.4137	0.4137
		Highest	0.4137	0.4137

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0000e-004	0.0000	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	3.8000e-004	2.6600e-003	3.9700e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.6004	1.6004	5.0000e-005	0.0000	1.6017
Waste						0.0000	0.0000		0.0000	0.0000	4.0600e-003	0.0000	4.0600e-003	2.4000e-004	0.0000	0.0101
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.3754	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>	<b>4.8000e-004</b>	<b>2.6600e-003</b>	<b>3.9700e-003</b>	<b>2.0000e-005</b>	<b>1.3900e-003</b>	<b>1.0000e-005</b>	<b>1.4000e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>4.0600e-003</b>	<b>1.9757</b>	<b>1.9798</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>1.9884</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	1.0000e-004	0.0000	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	3.8000e-004	2.6600e-003	3.9700e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.6004	1.6004	5.0000e-005	0.0000	1.6017
Waste						0.0000	0.0000		0.0000	0.0000	4.0600e-003	0.0000	4.0600e-003	2.4000e-004	0.0000	0.0101
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.3754	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>	<b>4.8000e-004</b>	<b>2.6600e-003</b>	<b>3.9700e-003</b>	<b>2.0000e-005</b>	<b>1.3900e-003</b>	<b>1.0000e-005</b>	<b>1.4000e-003</b>	<b>3.7000e-004</b>	<b>1.0000e-005</b>	<b>3.8000e-004</b>	<b>4.0600e-003</b>	<b>1.9757</b>	<b>1.9798</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>1.9884</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
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	7/1/2023	8/25/2023	5	40	

**Acres of Grading (Site Preparation Phase): 0**

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**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Bore/Drill Rigs	1	8.00	89	0.20
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Excavators	1	8.00	97	0.37
Building Construction	Forklifts	0	6.00	89	0.20
Building Construction	Paving Equipment	4	8.00	132	0.36
Building Construction	Pumps	1	8.00	84	0.74
Building Construction	Rollers	1	8.00	80	0.38
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	10	10.00	4.00	10.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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**3.2 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0374	0.3675	0.4616	7.8000e-004		0.0175	0.0175		0.0163	0.0163	0.0000	68.1460	68.1460	0.0189	0.0000	68.6185
<b>Total</b>	<b>0.0374</b>	<b>0.3675</b>	<b>0.4616</b>	<b>7.8000e-004</b>		<b>0.0175</b>	<b>0.0175</b>		<b>0.0163</b>	<b>0.0163</b>	<b>0.0000</b>	<b>68.1460</b>	<b>68.1460</b>	<b>0.0189</b>	<b>0.0000</b>	<b>68.6185</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	3.0000e-005	8.7000e-004	1.8000e-004	0.0000	8.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.3709	0.3709	1.0000e-005	0.0000	0.3711
Vendor	1.8000e-004	6.8500e-003	1.3400e-003	2.0000e-005	5.2000e-004	1.0000e-005	5.3000e-004	1.5000e-004	1.0000e-005	1.6000e-004	0.0000	2.1337	2.1337	7.0000e-005	0.0000	2.1355
Worker	5.7000e-004	3.5000e-004	4.0200e-003	1.0000e-005	1.5700e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.2120	1.2120	2.0000e-005	0.0000	1.2126
<b>Total</b>	<b>7.8000e-004</b>	<b>8.0700e-003</b>	<b>5.5400e-003</b>	<b>3.0000e-005</b>	<b>2.1700e-003</b>	<b>2.0000e-005</b>	<b>2.2000e-003</b>	<b>5.9000e-004</b>	<b>2.0000e-005</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>3.7166</b>	<b>3.7166</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>3.7192</b>



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**3.2 Building Construction - 2023**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0374	0.3675	0.4616	7.8000e-004		0.0175	0.0175		0.0163	0.0163	0.0000	68.1459	68.1459	0.0189	0.0000	68.6184
<b>Total</b>	<b>0.0374</b>	<b>0.3675</b>	<b>0.4616</b>	<b>7.8000e-004</b>		<b>0.0175</b>	<b>0.0175</b>		<b>0.0163</b>	<b>0.0163</b>	<b>0.0000</b>	<b>68.1459</b>	<b>68.1459</b>	<b>0.0189</b>	<b>0.0000</b>	<b>68.6184</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	3.0000e-005	8.7000e-004	1.8000e-004	0.0000	8.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.3709	0.3709	1.0000e-005	0.0000	0.3711
Vendor	1.8000e-004	6.8500e-003	1.3400e-003	2.0000e-005	5.2000e-004	1.0000e-005	5.3000e-004	1.5000e-004	1.0000e-005	1.6000e-004	0.0000	2.1337	2.1337	7.0000e-005	0.0000	2.1355
Worker	5.7000e-004	3.5000e-004	4.0200e-003	1.0000e-005	1.5700e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.2120	1.2120	2.0000e-005	0.0000	1.2126
<b>Total</b>	<b>7.8000e-004</b>	<b>8.0700e-003</b>	<b>5.5400e-003</b>	<b>3.0000e-005</b>	<b>2.1700e-003</b>	<b>2.0000e-005</b>	<b>2.2000e-003</b>	<b>5.9000e-004</b>	<b>2.0000e-005</b>	<b>6.1000e-004</b>	<b>0.0000</b>	<b>3.7166</b>	<b>3.7166</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>3.7192</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.8000e-004	2.6600e-003	3.9700e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.6004	1.6004	5.0000e-005	0.0000	1.6017
Unmitigated	3.8000e-004	2.6600e-003	3.9700e-003	2.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.8000e-004	0.0000	1.6004	1.6004	5.0000e-005	0.0000	1.6017

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	0.47	5.69	4.19	3,731	3,731
Total	0.47	5.69	4.19	3,731	3,731

**4.3 Trip Type Information**

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.512206	0.037649	0.220902	0.116610	0.017603	0.005350	0.033125	0.046863	0.001372	0.001143	0.005515	0.000740	0.000922

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

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**5.2 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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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					
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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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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			
City Park	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.0000e-004	0.0000	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	1.0000e-004	0.0000	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	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	1.0000e-004					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
<b>Total</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.0000e-004					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
<b>Total</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.3754	1.0000e-005	0.0000	0.3766
Unmitigated	0.3754	1.0000e-005	0.0000	0.3766

## 7.2 Water by Land Use

### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0.29787	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>		<b>0.3754</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3766</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 / 0.29787	0.3754	1.0000e-005	0.0000	0.3766
<b>Total</b>		<b>0.3754</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3766</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.0600e-003	2.4000e-004	0.0000	0.0101
Unmitigated	4.0600e-003	2.4000e-004	0.0000	0.0101

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.02	4.0600e-003	2.4000e-004	0.0000	0.0101
<b>Total</b>		<b>4.0600e-003</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0101</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.02	4.0600e-003	2.4000e-004	0.0000	0.0101
<b>Total</b>		<b>4.0600e-003</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>0.0101</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**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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