

# **Appendix C**

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## **Air Quality CalEEMod Modeling**

	April				May				June				July				August			
	ROG	Nox	PM10	PM2.5	ROG	Nox	PM10	PM2.5	ROG	Nox	PM10	PM2.5	ROG	Nox	PM10	PM2.5	ROG	Nox	PM10	PM2.5
<b>SEGMENT A (2021/2022)</b>																				
Initial Clearing and Rough Grading(6 weeks)	2.3	24.3	4.5	2.8	2.3	24.3	4.5	2.8	2.3	24.3	4.5	2.8								
New Bridge #2 Construction(10 weeks)									1.2	11.6	0.6	0.5	1.2	11.6	0.6	0.5	1.2	11.6	0.6	0.5
New Bridge #4 Construction(10 weeks)													1.6	16.5	0.8	0.7	1.6	16.5	0.8	0.7
Darling Bridge Widening(12 weeks)																				
Finish grading(3 weeks)													1.0	12.2	1.1	0.5	1.0	12.2	1.1	0.5
Retaining Walls/Railings and Undercrossings(8 weeks)													1.3	12.7	0.7	0.6	1.3	12.7	0.7	0.6
Drainage, Utilities and Bank Stabilization(4 weeks)													0.4	3.2	0.2	0.1	0.4	3.2	0.2	0.1
Paving (trail and trailhead)(6 weeks)																				
Planting/Erosion Control/Miscellaneous(4 weeks)																				
<b>SEGMENT TOTAL</b>	<b>2.3</b>	<b>24.3</b>	<b>4.5</b>	<b>2.8</b>	<b>2.3</b>	<b>24.3</b>	<b>4.5</b>	<b>2.8</b>	<b>3.5</b>	<b>36.0</b>	<b>5.1</b>	<b>3.3</b>	<b>5.4</b>	<b>56.2</b>	<b>3.6</b>	<b>2.5</b>	<b>5.4</b>	<b>56.2</b>	<b>3.6</b>	<b>2.5</b>
<b>SEGMENT B (2021/2022)</b>																				
Initial Clearing and Rough Grading					1.6	17.0	1.2	0.8	1.6	17.0	1.2	0.8	1.6	17.0	1.2	0.8				
New Bridge #13 Construction																	1.4	14.0	0.8	0.7
Retaining Walls/Railings Undercrossing													0.5	4.9	0.3	0.2	0.5	4.9	0.3	0.2
Drainage and Bank Stabilization																	0.4	3.7	0.3	0.2
Finish grading													0.9	9.9	0.9	0.4	0.9	9.9	0.9	0.4
Paving																				
Planting/Erosion Control/Miscellaneous																				
<b>SEGMENT TOTAL</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>1.6</b>	<b>17.0</b>	<b>1.2</b>	<b>0.8</b>	<b>1.6</b>	<b>17.0</b>	<b>1.2</b>	<b>0.8</b>	<b>3.0</b>	<b>31.9</b>	<b>2.4</b>	<b>1.4</b>	<b>3.1</b>	<b>32.6</b>	<b>2.3</b>	<b>1.5</b>
<b>SEGMENT C (2021/2022)</b>																				
Initial Clearing and Rough Grading																				
Drainage and Bank Stabilization																				
Finish grading																				
Paving																				
Planting/Erosion Control/Miscellaneous																				
<b>SEGMENT TOTAL</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>SEGMENT D (2023/2024)</b>																				
Initial Clearing and Rough Grading	1.8	18.0	4.4	2.5	1.8	18.0	4.4	2.5	1.8	18.0	4.4	2.5								
Rocky Ridge Undercrossing													1.9	18.8	1.0	0.8	1.9	18.8	1.0	0.8
New Bridge #20 Construction									1.1501	11.4754	0.6296	0.518	1.1501	11.4754	0.6296	0.518	1.1501	11.4754	0.6296	0.518
New Bridge #30 Construction																				
Existing Bridge #21 Rehab/Widening																	0.9261	9.0372	0.5464	0.4323
Old Auburn Undercrossing																				
Finish grading													0.7774	8.6927	1.0594	0.3782	0.7774	8.6927	1.0594	0.3782
Drainage and Bank Stabilization													0.2269	1.7947	0.1632	0.0792	0.2269	1.7947	0.1632	0.0792
Paving																	0.6163	6.1868	0.4116	0.2983
Planting/Erosion Control/Miscellaneous																				
<b>SEGMENT TOTAL</b>	<b>1.8</b>	<b>18.0</b>	<b>4.4</b>	<b>2.5</b>	<b>1.8</b>	<b>18.0</b>	<b>4.4</b>	<b>2.5</b>	<b>3.0</b>	<b>29.5</b>	<b>5.0</b>	<b>3.0</b>	<b>4.1</b>	<b>40.7</b>	<b>2.8</b>	<b>1.8</b>	<b>5.6</b>	<b>56.0</b>	<b>3.8</b>	<b>2.6</b>
<b>Summary Tables</b>																				
	April				May				June				July				August			
	ROG	Nox	PM10	PM2.5	ROG	Nox	PM10	PM2.5	ROG	Nox	PM10	PM2.5	ROG	Nox	PM10	PM2.5	ROG	Nox	PM10	PM2.5
Segments 1-3 Combined Emissions	2.3	24.3	4.5	2.8	4.0	41.4	5.6	3.5	5.2	53.0	6.3	4.1	8.4	88.1	6.0	3.9	8.5	88.8	5.8	3.9
Segment 4	1.8	18.0	4.4	2.5	1.8	18.0	4.4	2.5	3.0	29.5	5.0	3.0	4.1	40.7	2.8	1.8	5.6	56.0	3.8	2.6
Threshold	82	82	82	N/A	82	82	82	N/A	82	82	82	N/A	82	82	82	N/A	82	82	82	N/A
<b>Segments 1-3 Exceeded? (False/True)</b>	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE
<b>Segment 4 Exceeded? (False/True)</b>	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE

	Years Combined				Year 1				Year 2			
	ROG	Nox	PM10	PM2.5	ROG	Nox	PM10	PM2.5	ROG	Nox	PM10	PM2.5
Segment A (Emissions (Max))	5.4	56.2	5.1	3.3	5	56	5	3	5	51	4	3
Segment B (Emissions (Max))	3.1	32.6	2.4	1.5	3	33	2	1	2	17	1	1
Segment C (Emissions (Max))	3.8	39.7	9.0	5.0	1	11	1	1	4	40	9	5
Segment D (Emissions Max)	5.6	56.0	5.0	3.0	6	56	5	3	3	29	5	3
Segments A-C Combined Emissions (Max)	9.9	105.6	13.4	7.9	8	89	6	4	10	106	13	8
Threshold	82	82	82	N/A								
<b>Segments 1-3 Exceeded? (False/True)</b>	FALSE	TRUE	FALSE	FALSE								
<b>Segment 4 Exceeded? (False/True)</b>	FALSE	FALSE	FALSE	FALSE								

	September				October				April				May				June			
	ROG	Nox	PM10	PM2.5	ROG	Nox	PM10	PM2.5	ROG	Nox	PM10	PM2.5	ROG	Nox	PM10	PM2.5	ROG	Nox	PM10	PM2.5
<b>SEGMENT A (2021/2022)</b>																				
Initial Clearing and Rough Grading(6 weeks)									2.3	24.3	4.5	2.8								
New Bridge #2 Construction(10 weeks)																				
New Bridge #4 Construction(10 weeks)	1.6	16.5	0.8	0.7																
Darling Bridge Widening(12 weeks)													2.5	26.1	1.3	1.2	2.5	26.1	1.3	1.2
Finish grading(3 weeks)																				
Retaining Walls/Railings and Undercrossings(8 weeks)	1.3	12.7	0.7	0.6													1.3	12.7	0.7	0.6
Drainage, Utilities and Bank Stabilization(4 weeks)																				
Paving (trail and trailhead)(6 weeks)	0.7	7.7	0.5	0.4	0.7	7.7	0.5	0.4												
Planting/Erosion Control/Miscellaneous(4 weeks)					0.4	3.6	0.2	0.2												
<b>SEGMENT TOTAL</b>	<b>3.6</b>	<b>36.8</b>	<b>2.1</b>	<b>1.7</b>	<b>1.2</b>	<b>11.3</b>	<b>0.7</b>	<b>0.6</b>	<b>2.3</b>	<b>24.3</b>	<b>4.5</b>	<b>2.8</b>	<b>2.5</b>	<b>26.1</b>	<b>1.3</b>	<b>1.2</b>	<b>3.8</b>	<b>38.8</b>	<b>2.0</b>	<b>1.8</b>
<b>SEGMENT B (2021/2022)</b>																				
Initial Clearing and Rough Grading									1.6	17.0	1.2	0.8								
New Bridge #13 Construction	1.4	14.0	0.8	0.7	1.4	14.0	0.8	0.7												
Retaining Walls/Railings Undercrossing													0.5	4.9	0.3	0.2	0.5	4.9	0.3	0.2
Drainage and Bank Stabilization																				
Finish grading																				
Paving	0.7	7.0	0.5	0.4	0.7	7.0	0.5	0.4												
Planting/Erosion Control/Miscellaneous					0.3	2.1	0.2	0.1												
<b>SEGMENT TOTAL</b>	<b>2.1</b>	<b>20.9</b>	<b>1.3</b>	<b>1.0</b>	<b>2.3</b>	<b>23.0</b>	<b>1.5</b>	<b>1.2</b>	<b>1.6</b>	<b>17.0</b>	<b>1.2</b>	<b>0.8</b>	<b>0.5</b>	<b>4.9</b>	<b>0.3</b>	<b>0.2</b>	<b>0.5</b>	<b>4.9</b>	<b>0.3</b>	<b>0.2</b>
<b>SEGMENT C (2021/2022)</b>																				
Initial Clearing and Rough Grading									1.8	18.2	1.4	0.8	1.8	18.2	1.4	0.8	1.8	18.2	1.4	0.8
Drainage and Bank Stabilization																	0.2621	2.2585	0.1824	0.097
Finish grading																	1.7817	19.2064	7.3782	4.1247
Paving	0.8294	8.3422	0.5311	0.4121	0.8294	8.3422	0.5311	0.4121												
Planting/Erosion Control/Miscellaneous					0.2989	2.4093	0.7255	0.1824												
<b>SEGMENT TOTAL</b>	<b>0.8</b>	<b>8.3</b>	<b>0.5</b>	<b>0.4</b>	<b>1.1</b>	<b>10.8</b>	<b>1.3</b>	<b>0.6</b>	<b>1.8</b>	<b>18.2</b>	<b>1.4</b>	<b>0.8</b>	<b>1.8</b>	<b>18.2</b>	<b>1.4</b>	<b>0.8</b>	<b>3.8</b>	<b>39.7</b>	<b>9.0</b>	<b>5.0</b>
<b>SEGMENT D (2023/2024)</b>																				
Initial Clearing and Rough Grading									1.8	18.0	4.4	2.5	1.8	18.0	4.4	2.5				
Rocky Ridge Undercrossing	1.9	18.8	1.0	0.8																
New Bridge #20 Construction																				
New Bridge #30 Construction													1.0844	10.7288	0.5749	0.466	1.0844	10.7288	0.5749	0.466
Existing Bridge #21 Rehab/Widening	0.9261	9.0372	0.5464	0.4323																
Old Auburn Undercrossing																				
Finish grading																				
Drainage and Bank Stabilization																	0.2269	1.7947	0.1632	0.0792
Paving	0.6163	6.1868	0.4116	0.2983																
Planting/Erosion Control/Miscellaneous					0.631	6.432	0.8426	0.2901												
<b>SEGMENT TOTAL</b>	<b>3.5</b>	<b>34.0</b>	<b>1.9</b>	<b>1.6</b>	<b>0.6</b>	<b>6.4</b>	<b>0.8</b>	<b>0.3</b>	<b>1.8</b>	<b>18.0</b>	<b>4.4</b>	<b>2.5</b>	<b>2.9</b>	<b>28.7</b>	<b>5.0</b>	<b>3.0</b>	<b>1.3</b>	<b>12.5</b>	<b>0.7</b>	<b>0.5</b>
<b>Summary Tables</b>																				
	September				October				April				May				June			
	ROG	Nox	PM10	PM2.5	ROG	Nox	PM10	PM2.5	ROG	Nox	PM10	PM2.5	ROG	Nox	PM10	PM2.5	ROG	Nox	PM10	PM2.5
Segments 1-3 Combined Emissions	6.5	66.1	3.9	3.1	4.6	45.0	3.5	2.3	5.7	59.6	7.1	4.3	4.8	49.3	3.1	2.2	8.1	83.4	11.4	7.0
Segment 4	3.5	34.0	1.9	1.6	0.6	6.4	0.8	0.3	1.8	18.0	4.4	2.5	2.9	28.7	5.0	3.0	1.3	12.5	0.7	0.5
Threshold	82	82	82	N/A	82	82	82	N/A	82	82	82	N/A	82	82	82	N/A	82	82	82	N/A
Segments 1-3 Exceeded? (False/True)	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE
Segment 4 Exceeded? (False/True)	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE

	July				August				September				October			
	ROG	Nox	PM10	PM2.5	ROG	Nox	PM10	PM2.5	ROG	Nox	PM10	PM2.5	ROG	Nox	PM10	PM2.5
<b>SEGMENT A (2021/2022)</b>																
Initial Clearing and Rough Grading(6 weeks)																
New Bridge #2 Construction(10 weeks)																
New Bridge #4 Construction(10 weeks)																
Darling Bridge Widening(12 weeks)	2.5	26.1	1.3	1.2												
Finish grading(3 weeks)	1.0	12.2	1.1	0.5												
Retaining Walls/Railings and Undercrossings(8 weeks)	1.3	12.7	0.7	0.6												
Drainage, Utilities and Bank Stabilization(4 weeks)					0.4	3.2	0.2	0.1								
Paving (trail and trailhead)(6 weeks)									0.7	7.7	0.5	0.4				
Planting/Erosion Control/Miscellaneous(4 weeks)													0.4	3.6	0.2	0.2
<b>SEGMENT TOTAL</b>	<b>4.8</b>	<b>51.0</b>	<b>3.2</b>	<b>2.2</b>	<b>0.4</b>	<b>3.2</b>	<b>0.2</b>	<b>0.1</b>	<b>0.7</b>	<b>7.7</b>	<b>0.5</b>	<b>0.4</b>	<b>0.4</b>	<b>3.6</b>	<b>0.2</b>	<b>0.2</b>
<b>SEGMENT B (2021/2022)</b>																
Initial Clearing and Rough Grading																
New Bridge #13 Construction																
Retaining Walls/Railings Undercrossing	0.5	4.9	0.3	0.2												
Drainage and Bank Stabilization					0.4	3.7	0.3	0.2								
Finish grading	0.9	9.9	0.9	0.4	0.9	9.9	0.9	0.4								
Paving									0.7	7.0	0.5	0.4	0.7	7.0	0.5	0.4
Planting/Erosion Control/Miscellaneous													0.3	2.1	0.2	0.1
<b>SEGMENT TOTAL</b>	<b>1.3</b>	<b>14.9</b>	<b>1.2</b>	<b>0.6</b>	<b>1.3</b>	<b>13.7</b>	<b>1.1</b>	<b>0.6</b>	<b>0.7</b>	<b>7.0</b>	<b>0.5</b>	<b>0.4</b>	<b>1.0</b>	<b>9.0</b>	<b>0.7</b>	<b>0.5</b>
<b>SEGMENT C (2021/2022)</b>																
Initial Clearing and Rough Grading	1.8	18.2	1.4	0.8												
Drainage and Bank Stabilization	0.2621	2.2585	0.1824	0.097												
Finish grading	1.7817	19.2064	7.3782	4.1247												
Paving					0.8294	8.3422	0.5311	0.4121	0.8294	8.3422	0.5311	0.4121				
Planting/Erosion Control/Miscellaneous									0.2989	2.4093	0.7255	0.1824				
<b>SEGMENT TOTAL</b>	<b>3.8</b>	<b>39.7</b>	<b>9.0</b>	<b>5.0</b>	<b>0.8</b>	<b>8.3</b>	<b>0.5</b>	<b>0.4</b>	<b>1.1</b>	<b>10.8</b>	<b>1.3</b>	<b>0.6</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>SEGMENT D (2023/2024)</b>																
Initial Clearing and Rough Grading																
Rocky Ridge Undercrossing																
New Bridge #20 Construction																
New Bridge #30 Construction																
Existing Bridge #21 Rehab/Widening																
Old Auburn Undercrossing	0.696	6.2337	0.3553	0.2556	0.696	6.2337	0.3553	0.2556								
Finish grading	0.7774	8.6927	1.0594	0.3782	0.7774	8.6927	1.0594	0.3782								
Drainage and Bank Stabilization	0.2269	1.7947	0.1632	0.0792	0.2269	1.7947	0.1632	0.0792								
Paving					0.6163	6.1868	0.4116	0.2983	0.6163	6.1868	0.4116	0.2983				
Planting/Erosion Control/Miscellaneous													0.631	6.432	0.8426	0.2901
<b>SEGMENT TOTAL</b>	<b>1.7</b>	<b>16.7</b>	<b>1.6</b>	<b>0.7</b>	<b>2.3</b>	<b>22.9</b>	<b>2.0</b>	<b>1.0</b>	<b>0.6</b>	<b>6.2</b>	<b>0.4</b>	<b>0.3</b>	<b>0.6</b>	<b>6.4</b>	<b>0.8</b>	<b>0.3</b>
<b>Summary Tables</b>																
	July				August				September				October			
	ROG	Nox	PM10	PM2.5	ROG	Nox	PM10	PM2.5	ROG	Nox	PM10	PM2.5	ROG	Nox	PM10	PM2.5
Segments 1-3 Combined Emissions	9.9	105.6	13.4	7.9	2.4	25.2	1.9	1.1	2.6	25.4	2.2	1.3	1.4	12.6	0.9	0.6
Segment 4	1.7	16.7	1.6	0.7	2.3	22.9	2.0	1.0	0.6	6.2	0.4	0.3	0.6	6.4	0.8	0.3
Threshold	82	82	82	N/A	82	82	82	N/A	82	82	82	N/A	82	82	82	N/A
<b>Segments 1-3 Exceeded? (False/True)</b>	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
<b>Segment 4 Exceeded? (False/True)</b>	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE

Roseville Dry Creek Trail\_Segment A\_Bridge #2 - Placer County APCD Air District, Summer

**Roseville Dry Creek Trail\_Segment A\_Bridge #2**  
**Placer County APCD Air District, Summer**

**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 1: Construction Phases and Equipment - Segment A, provided by Psomas, September 2017.

Off-road Equipment - Per Table 1: Construction Phases and Equipment - Segment A, 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 A\_Bridge #2 - Placer County APCD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	50.00
tblOffRoadEquipment	HorsePower	231.00	9.00
tblOffRoadEquipment	LoadFactor	0.29	0.56
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	8.00	4.80
tblProjectCharacteristics	OperationalYear	2018	2023
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 A\_Bridge #2 - Placer County APCD Air District, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.1907	11.6385	12.5551	0.0277	0.1110	0.5368	0.6478	0.0301	0.5081	0.5382	0.0000	2,676.9301	2,676.9301	0.6377	0.0000	2,692.8726
<b>Maximum</b>	<b>1.1907</b>	<b>11.6385</b>	<b>12.5551</b>	<b>0.0277</b>	<b>0.1110</b>	<b>0.5368</b>	<b>0.6478</b>	<b>0.0301</b>	<b>0.5081</b>	<b>0.5382</b>	<b>0.0000</b>	<b>2,676.9301</b>	<b>2,676.9301</b>	<b>0.6377</b>	<b>0.0000</b>	<b>2,692.8726</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	lb/day										lb/day					
2021	1.1907	11.6385	12.5551	0.0277	0.1110	0.5368	0.6478	0.0301	0.5081	0.5382	0.0000	2,676.9301	2,676.9301	0.6377	0.0000	2,692.8726
<b>Maximum</b>	<b>1.1907</b>	<b>11.6385</b>	<b>12.5551</b>	<b>0.0277</b>	<b>0.1110</b>	<b>0.5368</b>	<b>0.6478</b>	<b>0.0301</b>	<b>0.5081</b>	<b>0.5382</b>	<b>0.0000</b>	<b>2,676.9301</b>	<b>2,676.9301</b>	<b>0.6377</b>	<b>0.0000</b>	<b>2,692.8726</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 A\_Bridge #2 - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
<b>Total</b>	<b>9.9600e-003</b>	<b>0.0495</b>	<b>0.0863</b>	<b>3.5000e-004</b>	<b>0.0259</b>	<b>2.3000e-004</b>	<b>0.0262</b>	<b>6.9500e-003</b>	<b>2.2000e-004</b>	<b>7.1600e-003</b>		<b>35.5032</b>	<b>35.5032</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>35.5330</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
<b>Total</b>	<b>9.9600e-003</b>	<b>0.0495</b>	<b>0.0863</b>	<b>3.5000e-004</b>	<b>0.0259</b>	<b>2.3000e-004</b>	<b>0.0262</b>	<b>6.9500e-003</b>	<b>2.2000e-004</b>	<b>7.1600e-003</b>		<b>35.5032</b>	<b>35.5032</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>35.5330</b>

Roseville Dry Creek Trail\_Segment A\_Bridge #2 - Placer County APCD Air District, Summer

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	4/1/2021	6/9/2021	5	50	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

#### OffRoad Equipment

Roseville Dry Creek Trail\_Segment A\_Bridge #2 - Placer County APCD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Bore/Drill Rigs	1	8.00	221	0.50
Building Construction	Cranes	1	8.00	9	0.56
Building Construction	Excavators	1	8.00	158	0.38
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
Building Construction	Cranes	0	4.00	231	0.29
Building Construction	Forklifts	0	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
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**

Roseville Dry Creek Trail\_Segment A\_Bridge #2 - Placer County APCD Air District, Summer

**3.2 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1418	11.1633	12.2062	0.0256		0.5353	0.5353		0.5067	0.5067		2,466.8974	2,466.8974	0.6303		2,482.6555
<b>Total</b>	<b>1.1418</b>	<b>11.1633</b>	<b>12.2062</b>	<b>0.0256</b>		<b>0.5353</b>	<b>0.5353</b>		<b>0.5067</b>	<b>0.5067</b>		<b>2,466.8974</b>	<b>2,466.8974</b>	<b>0.6303</b>		<b>2,482.6555</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	lb/day										lb/day					
Hauling	7.4000e-004	0.0249	4.0800e-003	8.0000e-005	1.7500e-003	8.0000e-005	1.8300e-003	4.8000e-004	8.0000e-005	5.6000e-004		8.5646	8.5646	2.6000e-004		8.5711
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0489</b>	<b>0.4752</b>	<b>0.3489</b>	<b>2.0400e-003</b>	<b>0.1110</b>	<b>1.5700e-003</b>	<b>0.1126</b>	<b>0.0301</b>	<b>1.4900e-003</b>	<b>0.0316</b>		<b>210.0328</b>	<b>210.0328</b>	<b>7.3700e-003</b>		<b>210.2170</b>

Roseville Dry Creek Trail\_Segment A\_Bridge #2 - Placer County APCD Air District, Summer

**3.2 Building Construction - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1418	11.1633	12.2062	0.0256		0.5353	0.5353		0.5067	0.5067	0.0000	2,466.8973	2,466.8973	0.6303		2,482.6555
<b>Total</b>	<b>1.1418</b>	<b>11.1633</b>	<b>12.2062</b>	<b>0.0256</b>		<b>0.5353</b>	<b>0.5353</b>		<b>0.5067</b>	<b>0.5067</b>	<b>0.0000</b>	<b>2,466.8973</b>	<b>2,466.8973</b>	<b>0.6303</b>		<b>2,482.6555</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	lb/day										lb/day					
Hauling	7.4000e-004	0.0249	4.0800e-003	8.0000e-005	1.7500e-003	8.0000e-005	1.8300e-003	4.8000e-004	8.0000e-005	5.6000e-004		8.5646	8.5646	2.6000e-004		8.5711
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0489</b>	<b>0.4752</b>	<b>0.3489</b>	<b>2.0400e-003</b>	<b>0.1110</b>	<b>1.5700e-003</b>	<b>0.1126</b>	<b>0.0301</b>	<b>1.4900e-003</b>	<b>0.0316</b>		<b>210.0328</b>	<b>210.0328</b>	<b>7.3700e-003</b>		<b>210.2170</b>

**4.0 Operational Detail - Mobile**

Roseville Dry Creek Trail\_Segment A\_Bridge #2 - Placer County APCD Air District, Summer

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
Unmitigated	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330

**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 A\_Bridge #2 - Placer County APCD Air District, Summer

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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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	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Roseville Dry Creek Trail\_Segment A\_Bridge #2 - Placer County APCD Air District, Summer

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

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

**Mitigated**

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

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Roseville Dry Creek Trail\_Segment A\_Bridge #2 - Placer County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
Unmitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

Roseville Dry Creek Trail\_Segment A\_Bridge #2 - Placer County APCD Air District, Summer

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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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**

Roseville Dry Creek Trail\_Segment A\_Bridge #2 - Placer County APCD Air District, Summer

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Roseville Dry Creek Trail\_Segment A\_Bridge #4 - Placer County APCD Air District, Summer

**Roseville Dry Creek Trail\_Segment A\_Bridge #4**  
**Placer County APCD Air District, Summer**

**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 1: Construction Phases and Equipment - Segment A, provided by Psomas, September 2017.

Off-road Equipment - Per Table 1: Construction Phases and Equipment - Segment A, 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 A\_Bridge #4 - Placer County APCD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	50.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	8.00	4.80
tblProjectCharacteristics	OperationalYear	2018	2023
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 A\_Bridge #4 - Placer County APCD Air District, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.6036	16.4878	14.5379	0.0334	0.1110	0.7337	0.8447	0.0301	0.6893	0.7194	0.0000	3,235.6689	3,235.6689	0.8184	0.0000	3,256.1290
<b>Maximum</b>	<b>1.6036</b>	<b>16.4878</b>	<b>14.5379</b>	<b>0.0334</b>	<b>0.1110</b>	<b>0.7337</b>	<b>0.8447</b>	<b>0.0301</b>	<b>0.6893</b>	<b>0.7194</b>	<b>0.0000</b>	<b>3,235.6689</b>	<b>3,235.6689</b>	<b>0.8184</b>	<b>0.0000</b>	<b>3,256.1290</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	lb/day										lb/day					
2021	1.6036	16.4878	14.5379	0.0334	0.1110	0.7337	0.8447	0.0301	0.6893	0.7194	0.0000	3,235.6689	3,235.6689	0.8184	0.0000	3,256.1290
<b>Maximum</b>	<b>1.6036</b>	<b>16.4878</b>	<b>14.5379</b>	<b>0.0334</b>	<b>0.1110</b>	<b>0.7337</b>	<b>0.8447</b>	<b>0.0301</b>	<b>0.6893</b>	<b>0.7194</b>	<b>0.0000</b>	<b>3,235.6689</b>	<b>3,235.6689</b>	<b>0.8184</b>	<b>0.0000</b>	<b>3,256.1290</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 A\_Bridge #4 - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
<b>Total</b>	<b>9.9600e-003</b>	<b>0.0495</b>	<b>0.0863</b>	<b>3.5000e-004</b>	<b>0.0259</b>	<b>2.3000e-004</b>	<b>0.0262</b>	<b>6.9500e-003</b>	<b>2.2000e-004</b>	<b>7.1600e-003</b>		<b>35.5032</b>	<b>35.5032</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>35.5330</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
<b>Total</b>	<b>9.9600e-003</b>	<b>0.0495</b>	<b>0.0863</b>	<b>3.5000e-004</b>	<b>0.0259</b>	<b>2.3000e-004</b>	<b>0.0262</b>	<b>6.9500e-003</b>	<b>2.2000e-004</b>	<b>7.1600e-003</b>		<b>35.5032</b>	<b>35.5032</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>35.5330</b>

Roseville Dry Creek Trail\_Segment A\_Bridge #4 - Placer County APCD Air District, Summer

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	4/1/2021	6/9/2021	5	50	

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

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

**Acres of Paving: 0**

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

**OffRoad Equipment**

Roseville Dry Creek Trail\_Segment A\_Bridge #4 - Placer County APCD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Bore/Drill Rigs	1	8.00	221	0.50
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Excavators	1	8.00	158	0.38
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
Building Construction	Cranes	0	4.00	231	0.29
Building Construction	Forklifts	0	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
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**

Roseville Dry Creek Trail\_Segment A\_Bridge #4 - Placer County APCD Air District, Summer

**3.2 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5548	16.0126	14.1890	0.0314		0.7322	0.7322		0.6878	0.6878		3,025.6361	3,025.6361	0.8110		3,045.9120
<b>Total</b>	<b>1.5548</b>	<b>16.0126</b>	<b>14.1890</b>	<b>0.0314</b>		<b>0.7322</b>	<b>0.7322</b>		<b>0.6878</b>	<b>0.6878</b>		<b>3,025.6361</b>	<b>3,025.6361</b>	<b>0.8110</b>		<b>3,045.9120</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	lb/day										lb/day					
Hauling	7.4000e-004	0.0249	4.0800e-003	8.0000e-005	1.7500e-003	8.0000e-005	1.8300e-003	4.8000e-004	8.0000e-005	5.6000e-004		8.5646	8.5646	2.6000e-004		8.5711
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0489</b>	<b>0.4752</b>	<b>0.3489</b>	<b>2.0400e-003</b>	<b>0.1110</b>	<b>1.5700e-003</b>	<b>0.1126</b>	<b>0.0301</b>	<b>1.4900e-003</b>	<b>0.0316</b>		<b>210.0328</b>	<b>210.0328</b>	<b>7.3700e-003</b>		<b>210.2170</b>

Roseville Dry Creek Trail\_Segment A\_Bridge #4 - Placer County APCD Air District, Summer

**3.2 Building Construction - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5548	16.0126	14.1890	0.0314		0.7322	0.7322		0.6878	0.6878	0.0000	3,025.6361	3,025.6361	0.8110		3,045.9120
<b>Total</b>	<b>1.5548</b>	<b>16.0126</b>	<b>14.1890</b>	<b>0.0314</b>		<b>0.7322</b>	<b>0.7322</b>		<b>0.6878</b>	<b>0.6878</b>	<b>0.0000</b>	<b>3,025.6361</b>	<b>3,025.6361</b>	<b>0.8110</b>		<b>3,045.9120</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	lb/day										lb/day					
Hauling	7.4000e-004	0.0249	4.0800e-003	8.0000e-005	1.7500e-003	8.0000e-005	1.8300e-003	4.8000e-004	8.0000e-005	5.6000e-004		8.5646	8.5646	2.6000e-004		8.5711
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0489</b>	<b>0.4752</b>	<b>0.3489</b>	<b>2.0400e-003</b>	<b>0.1110</b>	<b>1.5700e-003</b>	<b>0.1126</b>	<b>0.0301</b>	<b>1.4900e-003</b>	<b>0.0316</b>		<b>210.0328</b>	<b>210.0328</b>	<b>7.3700e-003</b>		<b>210.2170</b>

**4.0 Operational Detail - Mobile**

Roseville Dry Creek Trail\_Segment A\_Bridge #4 - Placer County APCD Air District, Summer

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
Unmitigated	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330

**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 A\_Bridge #4 - Placer County APCD Air District, Summer

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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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	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Roseville Dry Creek Trail\_Segment A\_Bridge #4 - Placer County APCD Air District, Summer

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

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

**Mitigated**

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

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Roseville Dry Creek Trail\_Segment A\_Bridge #4 - Placer County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
Unmitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

Roseville Dry Creek Trail\_Segment A\_Bridge #4 - Placer County APCD Air District, Summer

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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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

Roseville Dry Creek Trail\_Segment A\_Bridge #4 - Placer County APCD Air District, Summer

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

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

Equipment Type	Number
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**11.0 Vegetation**

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

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

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	6.00	Acre	6.00	261,360.00	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 6,300 ft (1.2 miles)

Construction Phase - Per Table 1: Construction Phases and Equipment - Segment A, provided by Psomas, September 2017.

Off-road Equipment - Per Table 1: Construction Phases and Equipment - Segment A, 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 6,300 ft (1.2 miles)

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

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	30.00
tblGrading	AcresOfGrading	7.50	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
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	28.00	10.00

## 2.0 Emissions Summary

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

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	2.3484	24.3260	18.0142	0.0357	3.3336	1.1422	4.4757	1.7079	1.0509	2.7588	0.0000	3,471.2787	3,471.2787	1.0630	0.0000	3,497.8527
<b>Maximum</b>	<b>2.3484</b>	<b>24.3260</b>	<b>18.0142</b>	<b>0.0357</b>	<b>3.3336</b>	<b>1.1422</b>	<b>4.4757</b>	<b>1.7079</b>	<b>1.0509</b>	<b>2.7588</b>	<b>0.0000</b>	<b>3,471.2787</b>	<b>3,471.2787</b>	<b>1.0630</b>	<b>0.0000</b>	<b>3,497.8527</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	lb/day										lb/day					
2021	2.3484	24.3260	18.0142	0.0357	3.3336	1.1422	4.4757	1.7079	1.0509	2.7588	0.0000	3,471.2787	3,471.2787	1.0630	0.0000	3,497.8527
<b>Maximum</b>	<b>2.3484</b>	<b>24.3260</b>	<b>18.0142</b>	<b>0.0357</b>	<b>3.3336</b>	<b>1.1422</b>	<b>4.4757</b>	<b>1.7079</b>	<b>1.0509</b>	<b>2.7588</b>	<b>0.0000</b>	<b>3,471.2787</b>	<b>3,471.2787</b>	<b>1.0630</b>	<b>0.0000</b>	<b>3,497.8527</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 A\_Clearing and Grading - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0135	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3100e-003	1.3100e-003	0.0000		1.4000e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.2255	1.1868	2.0699	8.4000e-003	0.6222	5.5700e-003	0.6277	0.1667	5.2100e-003	0.1720		852.0744	852.0744	0.0287		852.7912
<b>Total</b>	<b>0.2391</b>	<b>1.1868</b>	<b>2.0705</b>	<b>8.4000e-003</b>	<b>0.6222</b>	<b>5.5700e-003</b>	<b>0.6277</b>	<b>0.1667</b>	<b>5.2100e-003</b>	<b>0.1720</b>		<b>852.0757</b>	<b>852.0757</b>	<b>0.0287</b>	<b>0.0000</b>	<b>852.7926</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0135	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3100e-003	1.3100e-003	0.0000		1.4000e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.2255	1.1868	2.0699	8.4000e-003	0.6222	5.5700e-003	0.6277	0.1667	5.2100e-003	0.1720		852.0744	852.0744	0.0287		852.7912
<b>Total</b>	<b>0.2391</b>	<b>1.1868</b>	<b>2.0705</b>	<b>8.4000e-003</b>	<b>0.6222</b>	<b>5.5700e-003</b>	<b>0.6277</b>	<b>0.1667</b>	<b>5.2100e-003</b>	<b>0.1720</b>		<b>852.0757</b>	<b>852.0757</b>	<b>0.0287</b>	<b>0.0000</b>	<b>852.7926</b>

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

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Initial Clearing and Rough Grading	Site Preparation	4/1/2021	5/12/2021	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; 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	5.40	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
Initial Clearing and Rough Grading	Rubber Tired Dozers	0	8.00	247	0.40
Initial Clearing and Rough Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37

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

**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**

**3.2 Initial Clearing and Rough 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	lb/day										lb/day					
Fugitive Dust					3.2231	0.0000	3.2231	1.6780	0.0000	1.6780			0.0000			0.0000
Off-Road	2.2998	23.8591	17.6666	0.0337		1.1407	1.1407		1.0494	1.0494		3,264.1008	3,264.1008	1.0557		3,290.4927
<b>Total</b>	<b>2.2998</b>	<b>23.8591</b>	<b>17.6666</b>	<b>0.0337</b>	<b>3.2231</b>	<b>1.1407</b>	<b>4.3638</b>	<b>1.6780</b>	<b>1.0494</b>	<b>2.7274</b>		<b>3,264.1008</b>	<b>3,264.1008</b>	<b>1.0557</b>		<b>3,290.4927</b>

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

**3.2 Initial Clearing and Rough Grading - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.0000e-004	0.0166	2.7200e-003	5.0000e-005	1.1700e-003	5.0000e-005	1.2200e-003	3.2000e-004	5.0000e-005	3.7000e-004		5.7097	5.7097	1.7000e-004		5.7140
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0486</b>	<b>0.4669</b>	<b>0.3476</b>	<b>2.0100e-003</b>	<b>0.1104</b>	<b>1.5400e-003</b>	<b>0.1120</b>	<b>0.0299</b>	<b>1.4600e-003</b>	<b>0.0314</b>		<b>207.1779</b>	<b>207.1779</b>	<b>7.2800e-003</b>		<b>207.3600</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.2231	0.0000	3.2231	1.6780	0.0000	1.6780			0.0000			0.0000
Off-Road	2.2998	23.8591	17.6666	0.0337		1.1407	1.1407		1.0494	1.0494	0.0000	3,264.1008	3,264.1008	1.0557		3,290.4927
<b>Total</b>	<b>2.2998</b>	<b>23.8591</b>	<b>17.6666</b>	<b>0.0337</b>	<b>3.2231</b>	<b>1.1407</b>	<b>4.3638</b>	<b>1.6780</b>	<b>1.0494</b>	<b>2.7274</b>	<b>0.0000</b>	<b>3,264.1008</b>	<b>3,264.1008</b>	<b>1.0557</b>		<b>3,290.4927</b>

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

**3.2 Initial Clearing and Rough Grading - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.0000e-004	0.0166	2.7200e-003	5.0000e-005	1.1700e-003	5.0000e-005	1.2200e-003	3.2000e-004	5.0000e-005	3.7000e-004		5.7097	5.7097	1.7000e-004		5.7140
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0486</b>	<b>0.4669</b>	<b>0.3476</b>	<b>2.0100e-003</b>	<b>0.1104</b>	<b>1.5400e-003</b>	<b>0.1120</b>	<b>0.0299</b>	<b>1.4600e-003</b>	<b>0.0314</b>		<b>207.1779</b>	<b>207.1779</b>	<b>7.2800e-003</b>		<b>207.3600</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2255	1.1868	2.0699	8.4000e-003	0.6222	5.5700e-003	0.6277	0.1667	5.2100e-003	0.1720		852.0744	852.0744	0.0287		852.7912
Unmitigated	0.2255	1.1868	2.0699	8.4000e-003	0.6222	5.5700e-003	0.6277	0.1667	5.2100e-003	0.1720		852.0744	852.0744	0.0287		852.7912

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	11.34	136.50	100.44	89,554	89,554
Total	11.34	136.50	100.44	89,554	89,554

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

5.0 Energy Detail

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

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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	
<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>	

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

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0135	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3100e-003	1.3100e-003	0.0000		1.4000e-003
Unmitigated	0.0135	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3100e-003	1.3100e-003	0.0000		1.4000e-003

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0135					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3100e-003	1.3100e-003	0.0000		1.4000e-003
<b>Total</b>	<b>0.0135</b>	<b>1.0000e-005</b>	<b>6.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>	<b>0.0000</b>		<b>1.4000e-003</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0135					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3100e-003	1.3100e-003	0.0000		1.4000e-003
<b>Total</b>	<b>0.0135</b>	<b>1.0000e-005</b>	<b>6.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>	<b>0.0000</b>		<b>1.4000e-003</b>

**7.0 Water Detail**

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

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

Roseville Dry Creek Trail\_Segment A\_Darling Bridge Widening - Placer County APCD Air District, Summer

**Roseville Dry Creek Trail\_Segment A\_Darling Bridge Widening  
Placer County APCD Air District, Summer**

**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 - Note

Land Use -

Construction Phase - Per Table 1: Construction Phases and Equipment - Segment A, provided by Psomas, September 2017.

Off-road Equipment - Per Table 1: Construction Phases and Equipment - Segment A, 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 A\_Darling Bridge Widening - Placer County APCD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	60.00
tblOffRoadEquipment	HorsePower	172.00	168.00
tblOffRoadEquipment	LoadFactor	0.42	0.40
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	4.00	8.00
tblOffRoadEquipment	UsageHours	8.00	4.80
tblProjectCharacteristics	OperationalYear	2018	2023
tblTripsAndVMT	HaulingTripNumber	0.00	12.00
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 A\_Darling Bridge Widening - Placer County APCD Air District, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	2.5296	26.1184	23.9925	0.0481	0.1127	1.2319	1.3446	0.0306	1.1476	1.1782	0.0000	4,653.6091	4,653.6091	1.2745	0.0000	4,685.4712
<b>Maximum</b>	<b>2.5296</b>	<b>26.1184</b>	<b>23.9925</b>	<b>0.0481</b>	<b>0.1127</b>	<b>1.2319</b>	<b>1.3446</b>	<b>0.0306</b>	<b>1.1476</b>	<b>1.1782</b>	<b>0.0000</b>	<b>4,653.6091</b>	<b>4,653.6091</b>	<b>1.2745</b>	<b>0.0000</b>	<b>4,685.4712</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	lb/day										lb/day					
2021	2.5296	26.1184	23.9925	0.0481	0.1127	1.2319	1.3446	0.0306	1.1476	1.1782	0.0000	4,653.6091	4,653.6091	1.2745	0.0000	4,685.4712
<b>Maximum</b>	<b>2.5296</b>	<b>26.1184</b>	<b>23.9925</b>	<b>0.0481</b>	<b>0.1127</b>	<b>1.2319</b>	<b>1.3446</b>	<b>0.0306</b>	<b>1.1476</b>	<b>1.1782</b>	<b>0.0000</b>	<b>4,653.6091</b>	<b>4,653.6091</b>	<b>1.2745</b>	<b>0.0000</b>	<b>4,685.4712</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 A\_Darling Bridge Widening - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
<b>Total</b>	<b>9.9600e-003</b>	<b>0.0495</b>	<b>0.0863</b>	<b>3.5000e-004</b>	<b>0.0259</b>	<b>2.3000e-004</b>	<b>0.0262</b>	<b>6.9500e-003</b>	<b>2.2000e-004</b>	<b>7.1600e-003</b>		<b>35.5032</b>	<b>35.5032</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>35.5330</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
<b>Total</b>	<b>9.9600e-003</b>	<b>0.0495</b>	<b>0.0863</b>	<b>3.5000e-004</b>	<b>0.0259</b>	<b>2.3000e-004</b>	<b>0.0262</b>	<b>6.9500e-003</b>	<b>2.2000e-004</b>	<b>7.1600e-003</b>		<b>35.5032</b>	<b>35.5032</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>35.5330</b>

Roseville Dry Creek Trail\_Segment A\_Darling Bridge Widening - Placer County APCD Air District, Summer

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	4/1/2021	6/23/2021	5	60	

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

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

**Acres of Paving: 0**

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

**OffRoad Equipment**

Roseville Dry Creek Trail\_Segment A\_Darling Bridge Widening - Placer County APCD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Building Construction	Bore/Drill Rigs	1	8.00	221	0.50
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Excavators	1	8.00	158	0.38
Building Construction	Other Construction Equipment	2	8.00	168	0.40
Building Construction	Paving Equipment	1	8.00	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
Building Construction	Cranes	0	4.00	231	0.29
Building Construction	Forklifts	0	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Building Construction	9	10.00	4.00	12.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Roseville Dry Creek Trail\_Segment A\_Darling Bridge Widening - Placer County APCD Air District, Summer

**3.2 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4799	25.6184	23.6395	0.0460		1.2302	1.2302		1.1460	1.1460		4,435.0118	4,435.0118	1.2669		4,466.6832
<b>Total</b>	<b>2.4799</b>	<b>25.6184</b>	<b>23.6395</b>	<b>0.0460</b>		<b>1.2302</b>	<b>1.2302</b>		<b>1.1460</b>	<b>1.1460</b>		<b>4,435.0118</b>	<b>4,435.0118</b>	<b>1.2669</b>		<b>4,466.6832</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	lb/day										lb/day					
Hauling	1.4900e-003	0.0497	8.1500e-003	1.6000e-004	3.5000e-003	1.6000e-004	3.6600e-003	9.6000e-004	1.6000e-004	1.1200e-003		17.1291	17.1291	5.2000e-004		17.1421
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0496</b>	<b>0.5000</b>	<b>0.3530</b>	<b>2.1200e-003</b>	<b>0.1127</b>	<b>1.6500e-003</b>	<b>0.1144</b>	<b>0.0306</b>	<b>1.5700e-003</b>	<b>0.0321</b>		<b>218.5974</b>	<b>218.5974</b>	<b>7.6300e-003</b>		<b>218.7881</b>

Roseville Dry Creek Trail\_Segment A\_Darling Bridge Widening - Placer County APCD Air District, Summer

**3.2 Building Construction - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4799	25.6184	23.6395	0.0460		1.2302	1.2302		1.1460	1.1460	0.0000	4,435.0118	4,435.0118	1.2669		4,466.6832
<b>Total</b>	<b>2.4799</b>	<b>25.6184</b>	<b>23.6395</b>	<b>0.0460</b>		<b>1.2302</b>	<b>1.2302</b>		<b>1.1460</b>	<b>1.1460</b>	<b>0.0000</b>	<b>4,435.0118</b>	<b>4,435.0118</b>	<b>1.2669</b>		<b>4,466.6832</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	lb/day										lb/day					
Hauling	1.4900e-003	0.0497	8.1500e-003	1.6000e-004	3.5000e-003	1.6000e-004	3.6600e-003	9.6000e-004	1.6000e-004	1.1200e-003		17.1291	17.1291	5.2000e-004		17.1421
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0496</b>	<b>0.5000</b>	<b>0.3530</b>	<b>2.1200e-003</b>	<b>0.1127</b>	<b>1.6500e-003</b>	<b>0.1144</b>	<b>0.0306</b>	<b>1.5700e-003</b>	<b>0.0321</b>		<b>218.5974</b>	<b>218.5974</b>	<b>7.6300e-003</b>		<b>218.7881</b>

**4.0 Operational Detail - Mobile**

Roseville Dry Creek Trail\_Segment A\_Darling Bridge Widening - Placer County APCD Air District, Summer

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
Unmitigated	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330

**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 A\_Darling Bridge Widening - Placer County APCD Air District, Summer

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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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	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Roseville Dry Creek Trail\_Segment A\_Darling Bridge Widening - Placer County APCD Air District, Summer

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

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

**Mitigated**

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

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Roseville Dry Creek Trail\_Segment A\_Darling Bridge Widening - Placer County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
Unmitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

Roseville Dry Creek Trail\_Segment A\_Darling Bridge Widening - Placer County APCD Air District, Summer

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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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**

Roseville Dry Creek Trail\_Segment A\_Darling Bridge Widening - Placer County APCD Air District, Summer

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

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

Equipment Type	Number
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**11.0 Vegetation**

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

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

**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 1: Construction Phases and Equipment - Segment A, provided by Psomas, September 2017.

Off-road Equipment - Per Table 1: Construction Phases and Equipment - Segment A, 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 A\_Drainage and Utilities - Placer County APCD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	20.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
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 A\_Drainage and Utilities - Placer County APCD Air District, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.3524	3.1733	3.1432	8.2200e-003	0.1092	0.1217	0.2310	0.0296	0.1124	0.1420	0.0000	801.1357	801.1357	0.1973	0.0000	806.0674
<b>Maximum</b>	<b>0.3524</b>	<b>3.1733</b>	<b>3.1432</b>	<b>8.2200e-003</b>	<b>0.1092</b>	<b>0.1217</b>	<b>0.2310</b>	<b>0.0296</b>	<b>0.1124</b>	<b>0.1420</b>	<b>0.0000</b>	<b>801.1357</b>	<b>801.1357</b>	<b>0.1973</b>	<b>0.0000</b>	<b>806.0674</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	lb/day										lb/day					
2021	0.3524	3.1733	3.1432	8.2200e-003	0.1092	0.1217	0.2310	0.0296	0.1124	0.1420	0.0000	801.1357	801.1357	0.1973	0.0000	806.0674
<b>Maximum</b>	<b>0.3524</b>	<b>3.1733</b>	<b>3.1432</b>	<b>8.2200e-003</b>	<b>0.1092</b>	<b>0.1217</b>	<b>0.2310</b>	<b>0.0296</b>	<b>0.1124</b>	<b>0.1420</b>	<b>0.0000</b>	<b>801.1357</b>	<b>801.1357</b>	<b>0.1973</b>	<b>0.0000</b>	<b>806.0674</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 A\_Drainage and Utilities - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
<b>Total</b>	<b>9.9600e-003</b>	<b>0.0495</b>	<b>0.0863</b>	<b>3.5000e-004</b>	<b>0.0259</b>	<b>2.3000e-004</b>	<b>0.0262</b>	<b>6.9500e-003</b>	<b>2.2000e-004</b>	<b>7.1600e-003</b>		<b>35.5032</b>	<b>35.5032</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>35.5330</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
<b>Total</b>	<b>9.9600e-003</b>	<b>0.0495</b>	<b>0.0863</b>	<b>3.5000e-004</b>	<b>0.0259</b>	<b>2.3000e-004</b>	<b>0.0262</b>	<b>6.9500e-003</b>	<b>2.2000e-004</b>	<b>7.1600e-003</b>		<b>35.5032</b>	<b>35.5032</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>35.5330</b>

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

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	4/1/2021	4/28/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; 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	3.00	158	0.38
Building Construction	Off-Highway Trucks	1	2.00	402	0.38
Building Construction	Plate Compactors	2	2.00	8	0.43
Building Construction	Tractors/Loaders/Backhoes	1	2.00	97	0.37
Building Construction	Cranes	0	4.00	231	0.29
Building Construction	Forklifts	0	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37

#### Trips and VMT

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

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**

**3.2 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3043	2.7230	2.7983	6.2600e-003		0.1203	0.1203		0.1110	0.1110		599.6675	599.6675	0.1902		604.4214
<b>Total</b>	<b>0.3043</b>	<b>2.7230</b>	<b>2.7983</b>	<b>6.2600e-003</b>		<b>0.1203</b>	<b>0.1203</b>		<b>0.1110</b>	<b>0.1110</b>		<b>599.6675</b>	<b>599.6675</b>	<b>0.1902</b>		<b>604.4214</b>

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

**3.2 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0481</b>	<b>0.4503</b>	<b>0.3449</b>	<b>1.9600e-003</b>	<b>0.1092</b>	<b>1.4900e-003</b>	<b>0.1107</b>	<b>0.0296</b>	<b>1.4100e-003</b>	<b>0.0310</b>		<b>201.4682</b>	<b>201.4682</b>	<b>7.1100e-003</b>		<b>201.6460</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.3043	2.7230	2.7983	6.2600e-003		0.1203	0.1203		0.1110	0.1110	0.0000	599.6675	599.6675	0.1902		604.4214
<b>Total</b>	<b>0.3043</b>	<b>2.7230</b>	<b>2.7983</b>	<b>6.2600e-003</b>		<b>0.1203</b>	<b>0.1203</b>		<b>0.1110</b>	<b>0.1110</b>	<b>0.0000</b>	<b>599.6675</b>	<b>599.6675</b>	<b>0.1902</b>		<b>604.4214</b>

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

**3.2 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0481</b>	<b>0.4503</b>	<b>0.3449</b>	<b>1.9600e-003</b>	<b>0.1092</b>	<b>1.4900e-003</b>	<b>0.1107</b>	<b>0.0296</b>	<b>1.4100e-003</b>	<b>0.0310</b>		<b>201.4682</b>	<b>201.4682</b>	<b>7.1100e-003</b>		<b>201.6460</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
Unmitigated	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330

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

5.0 Energy Detail

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

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

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

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
Unmitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**7.0 Water Detail**

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

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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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 A\_Grading - Placer County APCD Air District, Summer

**Roseville Dry Creek Trail\_Segment A\_Grading**  
**Placer County APCD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	6.00	Acre	6.00	261,360.00	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 1: Construction Phases and Equipment - Segment A, provided by Psomas, September 2017.

Off-road Equipment - Per Table 1: Construction Phases and Equipment - Segment A, 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 6,300 ft (1.2 miles)

## Roseville Dry Creek Trail\_Segment A\_Grading - Placer County APCD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	15.00
tblGrading	AcresOfGrading	3.75	6.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2018	2023
tblTripsAndVMT	HaulingTripNumber	0.00	200.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	13.00	10.00

## 2.0 Emissions Summary

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Roseville Dry Creek Trail\_Segment A\_Grading - Placer County APCD Air District, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.9600	12.2319	6.5845	0.0270	0.7667	0.3763	1.1430	0.1393	0.3467	0.4860	0.0000	2,708.0517	2,708.0517	0.4832	0.0000	2,720.1305
<b>Maximum</b>	<b>0.9600</b>	<b>12.2319</b>	<b>6.5845</b>	<b>0.0270</b>	<b>0.7667</b>	<b>0.3763</b>	<b>1.1430</b>	<b>0.1393</b>	<b>0.3467</b>	<b>0.4860</b>	<b>0.0000</b>	<b>2,708.0517</b>	<b>2,708.0517</b>	<b>0.4832</b>	<b>0.0000</b>	<b>2,720.1305</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	lb/day										lb/day					
2021	0.9600	12.2319	6.5845	0.0270	0.7667	0.3763	1.1430	0.1393	0.3467	0.4860	0.0000	2,708.0517	2,708.0517	0.4832	0.0000	2,720.1305
<b>Maximum</b>	<b>0.9600</b>	<b>12.2319</b>	<b>6.5845</b>	<b>0.0270</b>	<b>0.7667</b>	<b>0.3763</b>	<b>1.1430</b>	<b>0.1393</b>	<b>0.3467</b>	<b>0.4860</b>	<b>0.0000</b>	<b>2,708.0517</b>	<b>2,708.0517</b>	<b>0.4832</b>	<b>0.0000</b>	<b>2,720.1305</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 A\_Grading - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0135	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3100e-003	1.3100e-003	0.0000		1.4000e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.2255	1.1868	2.0699	8.4000e-003	0.6222	5.5700e-003	0.6277	0.1667	5.2100e-003	0.1720		852.0744	852.0744	0.0287		852.7912
<b>Total</b>	<b>0.2391</b>	<b>1.1868</b>	<b>2.0705</b>	<b>8.4000e-003</b>	<b>0.6222</b>	<b>5.5700e-003</b>	<b>0.6277</b>	<b>0.1667</b>	<b>5.2100e-003</b>	<b>0.1720</b>		<b>852.0757</b>	<b>852.0757</b>	<b>0.0287</b>	<b>0.0000</b>	<b>852.7926</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0135	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3100e-003	1.3100e-003	0.0000		1.4000e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.2255	1.1868	2.0699	8.4000e-003	0.6222	5.5700e-003	0.6277	0.1667	5.2100e-003	0.1720		852.0744	852.0744	0.0287		852.7912
<b>Total</b>	<b>0.2391</b>	<b>1.1868</b>	<b>2.0705</b>	<b>8.4000e-003</b>	<b>0.6222</b>	<b>5.5700e-003</b>	<b>0.6277</b>	<b>0.1667</b>	<b>5.2100e-003</b>	<b>0.1720</b>		<b>852.0757</b>	<b>852.0757</b>	<b>0.0287</b>	<b>0.0000</b>	<b>852.7926</b>

Roseville Dry Creek Trail\_Segment A\_Grading - Placer County APCD Air District, Summer

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	4/1/2021	4/21/2021	5	15	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 6

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	Graders	1	4.00	187	0.41
Grading	Off-Highway Trucks	1	4.00	402	0.38
Grading	Rollers	2	4.00	80	0.38
Grading	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Roseville Dry Creek Trail\_Segment A\_Grading - Placer County APCD Air District, Summer

**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	200.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**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	lb/day										lb/day					
Fugitive Dust					0.4242	0.0000	0.4242	0.0458	0.0000	0.0458			0.0000			0.0000
Off-Road	0.8126	8.4661	5.6963	0.0141		0.3639	0.3639		0.3348	0.3348		1,364.6425	1,364.6425	0.4414		1,375.6763
<b>Total</b>	<b>0.8126</b>	<b>8.4661</b>	<b>5.6963</b>	<b>0.0141</b>	<b>0.4242</b>	<b>0.3639</b>	<b>0.7881</b>	<b>0.0458</b>	<b>0.3348</b>	<b>0.3806</b>		<b>1,364.6425</b>	<b>1,364.6425</b>	<b>0.4414</b>		<b>1,375.6763</b>

Roseville Dry Creek Trail\_Segment A\_Grading - Placer County APCD Air District, Summer

**3.2 Grading - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0993	3.3155	0.5433	0.0109	0.2332	0.0110	0.2442	0.0639	0.0105	0.0744		1,141.9410	1,141.9410	0.0347		1,142.8083
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.1474</b>	<b>3.7658</b>	<b>0.8882</b>	<b>0.0129</b>	<b>0.3425</b>	<b>0.0124</b>	<b>0.3549</b>	<b>0.0935</b>	<b>0.0119</b>	<b>0.1054</b>		<b>1,343.4092</b>	<b>1,343.4092</b>	<b>0.0418</b>		<b>1,344.4542</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4242	0.0000	0.4242	0.0458	0.0000	0.0458			0.0000			0.0000
Off-Road	0.8126	8.4661	5.6963	0.0141		0.3639	0.3639		0.3348	0.3348	0.0000	1,364.6425	1,364.6425	0.4414		1,375.6763
<b>Total</b>	<b>0.8126</b>	<b>8.4661</b>	<b>5.6963</b>	<b>0.0141</b>	<b>0.4242</b>	<b>0.3639</b>	<b>0.7881</b>	<b>0.0458</b>	<b>0.3348</b>	<b>0.3806</b>	<b>0.0000</b>	<b>1,364.6425</b>	<b>1,364.6425</b>	<b>0.4414</b>		<b>1,375.6763</b>

Roseville Dry Creek Trail\_Segment A\_Grading - Placer County APCD Air District, Summer

**3.2 Grading - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0993	3.3155	0.5433	0.0109	0.2332	0.0110	0.2442	0.0639	0.0105	0.0744		1,141.9410	1,141.9410	0.0347		1,142.8083
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.1474</b>	<b>3.7658</b>	<b>0.8882</b>	<b>0.0129</b>	<b>0.3425</b>	<b>0.0124</b>	<b>0.3549</b>	<b>0.0935</b>	<b>0.0119</b>	<b>0.1054</b>		<b>1,343.4092</b>	<b>1,343.4092</b>	<b>0.0418</b>		<b>1,344.4542</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Roseville Dry Creek Trail\_Segment A\_Grading - Placer County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2255	1.1868	2.0699	8.4000e-003	0.6222	5.5700e-003	0.6277	0.1667	5.2100e-003	0.1720		852.0744	852.0744	0.0287		852.7912
Unmitigated	0.2255	1.1868	2.0699	8.4000e-003	0.6222	5.5700e-003	0.6277	0.1667	5.2100e-003	0.1720		852.0744	852.0744	0.0287		852.7912

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	11.34	136.50	100.44	89,554	89,554
Total	11.34	136.50	100.44	89,554	89,554

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

5.0 Energy Detail

Roseville Dry Creek Trail\_Segment A\_Grading - Placer County APCD Air District, Summer

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

Roseville Dry Creek Trail\_Segment A\_Grading - Placer County APCD Air District, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0135	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3100e-003	1.3100e-003	0.0000		1.4000e-003
Unmitigated	0.0135	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3100e-003	1.3100e-003	0.0000		1.4000e-003

Roseville Dry Creek Trail\_Segment A\_Grading - Placer County APCD Air District, Summer

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0135					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3100e-003	1.3100e-003	0.0000		1.4000e-003
<b>Total</b>	<b>0.0135</b>	<b>1.0000e-005</b>	<b>6.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>	<b>0.0000</b>		<b>1.4000e-003</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0135					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3100e-003	1.3100e-003	0.0000		1.4000e-003
<b>Total</b>	<b>0.0135</b>	<b>1.0000e-005</b>	<b>6.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>	<b>0.0000</b>		<b>1.4000e-003</b>

**7.0 Water Detail**

Roseville Dry Creek Trail\_Segment A\_Grading - Placer County APCD Air District, Summer

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

Roseville Dry Creek Trail\_Segment A\_Paving - Placer County APCD Air District, Summer

**Roseville Dry Creek Trail\_Segment A\_Paving**  
**Placer County APCD Air District, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	6.00	Acre	6.00	261,360.00	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 6,300 ft (1.2 miles)

Construction Phase - Per Table 1: Construction Phases and Equipment - Segment A, provided by Psomas, September 2017.

Off-road Equipment - Per Table 1: Construction Phases and Equipment - Segment A, 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 A\_Paving - Placer County APCD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	30.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2018	2023
tblTripsAndVMT	HaulingTripNumber	0.00	20.00
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 A\_Paving - Placer County APCD Air District, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.7450	7.6739	8.5065	0.0147	0.1209	0.3900	0.5109	0.0328	0.3588	0.3916	0.0000	1,435.5404	1,435.5404	0.3895	0.0000	1,445.2779
<b>Maximum</b>	<b>0.7450</b>	<b>7.6739</b>	<b>8.5065</b>	<b>0.0147</b>	<b>0.1209</b>	<b>0.3900</b>	<b>0.5109</b>	<b>0.0328</b>	<b>0.3588</b>	<b>0.3916</b>	<b>0.0000</b>	<b>1,435.5404</b>	<b>1,435.5404</b>	<b>0.3895</b>	<b>0.0000</b>	<b>1,445.2779</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	lb/day										lb/day					
2021	0.7450	7.6739	8.5065	0.0147	0.1209	0.3900	0.5109	0.0328	0.3588	0.3916	0.0000	1,435.5404	1,435.5404	0.3895	0.0000	1,445.2779
<b>Maximum</b>	<b>0.7450</b>	<b>7.6739</b>	<b>8.5065</b>	<b>0.0147</b>	<b>0.1209</b>	<b>0.3900</b>	<b>0.5109</b>	<b>0.0328</b>	<b>0.3588</b>	<b>0.3916</b>	<b>0.0000</b>	<b>1,435.5404</b>	<b>1,435.5404</b>	<b>0.3895</b>	<b>0.0000</b>	<b>1,445.2779</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 A\_Paving - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0135	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3100e-003	1.3100e-003	0.0000		1.4000e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.2255	1.1868	2.0699	8.4000e-003	0.6222	5.5700e-003	0.6277	0.1667	5.2100e-003	0.1720		852.0744	852.0744	0.0287		852.7912
<b>Total</b>	<b>0.2391</b>	<b>1.1868</b>	<b>2.0705</b>	<b>8.4000e-003</b>	<b>0.6222</b>	<b>5.5700e-003</b>	<b>0.6277</b>	<b>0.1667</b>	<b>5.2100e-003</b>	<b>0.1720</b>		<b>852.0757</b>	<b>852.0757</b>	<b>0.0287</b>	<b>0.0000</b>	<b>852.7926</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0135	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3100e-003	1.3100e-003	0.0000		1.4000e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.2255	1.1868	2.0699	8.4000e-003	0.6222	5.5700e-003	0.6277	0.1667	5.2100e-003	0.1720		852.0744	852.0744	0.0287		852.7912
<b>Total</b>	<b>0.2391</b>	<b>1.1868</b>	<b>2.0705</b>	<b>8.4000e-003</b>	<b>0.6222</b>	<b>5.5700e-003</b>	<b>0.6277</b>	<b>0.1667</b>	<b>5.2100e-003</b>	<b>0.1720</b>		<b>852.0757</b>	<b>852.0757</b>	<b>0.0287</b>	<b>0.0000</b>	<b>852.7926</b>

Roseville Dry Creek Trail\_Segment A\_Paving - Placer County APCD Air District, Summer

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Paving	Paving	4/1/2021	5/12/2021	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; 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
Paving	Pavers	0	8.00	130	0.42
Paving	Paving Equipment	0	8.00	132	0.36
Paving	Rollers	0	8.00	80	0.38

Roseville Dry Creek Trail\_Segment A\_Paving - Placer County APCD Air District, Summer

**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	20.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**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	lb/day										lb/day					
Off-Road	0.6919	7.0578	8.1345	0.0122		0.3879	0.3879		0.3569	0.3569		1,176.9751	1,176.9751	0.3807		1,186.4915
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6919</b>	<b>7.0578</b>	<b>8.1345</b>	<b>0.0122</b>		<b>0.3879</b>	<b>0.3879</b>		<b>0.3569</b>	<b>0.3569</b>		<b>1,176.9751</b>	<b>1,176.9751</b>	<b>0.3807</b>		<b>1,186.4915</b>

Roseville Dry Creek Trail\_Segment A\_Paving - Placer County APCD Air District, Summer

**3.2 Paving - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.9600e-003	0.1658	0.0272	5.4000e-004	0.0117	5.5000e-004	0.0122	3.2000e-003	5.2000e-004	3.7200e-003		57.0971	57.0971	1.7300e-003		57.1404
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0531</b>	<b>0.6161</b>	<b>0.3720</b>	<b>2.5000e-003</b>	<b>0.1209</b>	<b>2.0400e-003</b>	<b>0.1229</b>	<b>0.0328</b>	<b>1.9300e-003</b>	<b>0.0347</b>		<b>258.5653</b>	<b>258.5653</b>	<b>8.8400e-003</b>		<b>258.7864</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6919	7.0578	8.1345	0.0122		0.3879	0.3879		0.3569	0.3569	0.0000	1,176.9751	1,176.9751	0.3807		1,186.4915
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6919</b>	<b>7.0578</b>	<b>8.1345</b>	<b>0.0122</b>		<b>0.3879</b>	<b>0.3879</b>		<b>0.3569</b>	<b>0.3569</b>	<b>0.0000</b>	<b>1,176.9751</b>	<b>1,176.9751</b>	<b>0.3807</b>		<b>1,186.4915</b>

Roseville Dry Creek Trail\_Segment A\_Paving - Placer County APCD Air District, Summer

**3.2 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.9600e-003	0.1658	0.0272	5.4000e-004	0.0117	5.5000e-004	0.0122	3.2000e-003	5.2000e-004	3.7200e-003		57.0971	57.0971	1.7300e-003		57.1404
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0531</b>	<b>0.6161</b>	<b>0.3720</b>	<b>2.5000e-003</b>	<b>0.1209</b>	<b>2.0400e-003</b>	<b>0.1229</b>	<b>0.0328</b>	<b>1.9300e-003</b>	<b>0.0347</b>		<b>258.5653</b>	<b>258.5653</b>	<b>8.8400e-003</b>		<b>258.7864</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Roseville Dry Creek Trail\_Segment A\_Paving - Placer County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2255	1.1868	2.0699	8.4000e-003	0.6222	5.5700e-003	0.6277	0.1667	5.2100e-003	0.1720		852.0744	852.0744	0.0287		852.7912
Unmitigated	0.2255	1.1868	2.0699	8.4000e-003	0.6222	5.5700e-003	0.6277	0.1667	5.2100e-003	0.1720		852.0744	852.0744	0.0287		852.7912

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	11.34	136.50	100.44	89,554	89,554
Total	11.34	136.50	100.44	89,554	89,554

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

5.0 Energy Detail

Roseville Dry Creek Trail\_Segment A\_Paving - Placer County APCD Air District, Summer

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

Roseville Dry Creek Trail\_Segment A\_Paving - Placer County APCD Air District, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0135	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3100e-003	1.3100e-003	0.0000		1.4000e-003
Unmitigated	0.0135	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3100e-003	1.3100e-003	0.0000		1.4000e-003

Roseville Dry Creek Trail\_Segment A\_Paving - Placer County APCD Air District, Summer

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0135					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3100e-003	1.3100e-003	0.0000		1.4000e-003
<b>Total</b>	<b>0.0135</b>	<b>1.0000e-005</b>	<b>6.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>	<b>0.0000</b>		<b>1.4000e-003</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0135					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.0000e-005	1.0000e-005	6.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.3100e-003	1.3100e-003	0.0000		1.4000e-003
<b>Total</b>	<b>0.0135</b>	<b>1.0000e-005</b>	<b>6.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.3100e-003</b>	<b>1.3100e-003</b>	<b>0.0000</b>		<b>1.4000e-003</b>

**7.0 Water Detail**

Roseville Dry Creek Trail\_Segment A\_Paving - Placer County APCD Air District, Summer

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

Roseville Dry Creek Trail\_Segment A\_Planting - Placer County APCD Air District, Summer

**Roseville Dry Creek Trail\_Segment A\_Planting**  
**Placer County APCD Air District, Summer**

**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 1: Construction Phases and Equipment - Segment A, provided by Psomas, September 2017.

Off-road Equipment - Per Table 1: Construction Phases and Equipment - Segment A, 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 - Per Table 1: Construction Phases and Equipment - Segment A, provided by Psomas, September 2017.

## Roseville Dry Creek Trail\_Segment A\_Planting - Placer County APCD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1.00	20.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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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Roseville Dry Creek Trail\_Segment A\_Planting - Placer County APCD Air District, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.4331	3.6112	3.2037	8.9900e-003	0.0830	0.1530	0.2360	0.0220	0.1407	0.1628	0.0000	872.9774	872.9774	0.2573	0.0000	879.4109
<b>Maximum</b>	<b>0.4331</b>	<b>3.6112</b>	<b>3.2037</b>	<b>8.9900e-003</b>	<b>0.0830</b>	<b>0.1530</b>	<b>0.2360</b>	<b>0.0220</b>	<b>0.1407</b>	<b>0.1628</b>	<b>0.0000</b>	<b>872.9774</b>	<b>872.9774</b>	<b>0.2573</b>	<b>0.0000</b>	<b>879.4109</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	lb/day										lb/day					
2021	0.4331	3.6112	3.2037	8.9900e-003	0.0830	0.1530	0.2360	0.0220	0.1407	0.1628	0.0000	872.9774	872.9774	0.2573	0.0000	879.4109
<b>Maximum</b>	<b>0.4331</b>	<b>3.6112</b>	<b>3.2037</b>	<b>8.9900e-003</b>	<b>0.0830</b>	<b>0.1530</b>	<b>0.2360</b>	<b>0.0220</b>	<b>0.1407</b>	<b>0.1628</b>	<b>0.0000</b>	<b>872.9774</b>	<b>872.9774</b>	<b>0.2573</b>	<b>0.0000</b>	<b>879.4109</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 A\_Planting - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
<b>Total</b>	<b>9.9600e-003</b>	<b>0.0495</b>	<b>0.0863</b>	<b>3.5000e-004</b>	<b>0.0259</b>	<b>2.3000e-004</b>	<b>0.0262</b>	<b>6.9500e-003</b>	<b>2.2000e-004</b>	<b>7.1600e-003</b>		<b>35.5032</b>	<b>35.5032</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>35.5330</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
<b>Total</b>	<b>9.9600e-003</b>	<b>0.0495</b>	<b>0.0863</b>	<b>3.5000e-004</b>	<b>0.0259</b>	<b>2.3000e-004</b>	<b>0.0262</b>	<b>6.9500e-003</b>	<b>2.2000e-004</b>	<b>7.1600e-003</b>		<b>35.5032</b>	<b>35.5032</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>35.5330</b>

Roseville Dry Creek Trail\_Segment A\_Planting - Placer County APCD Air District, Summer

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	4/1/2021	4/28/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; 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	402	0.38
Site Preparation	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

**Trips and VMT**

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

Roseville Dry Creek Trail\_Segment A\_Planting - Placer County APCD Air District, Summer

**3.1 Mitigation Measures Construction**

**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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3966	3.5796	2.9323	8.1600e-003		0.1524	0.1524		0.1402	0.1402		789.7115	789.7115	0.2554		796.0968
<b>Total</b>	<b>0.3966</b>	<b>3.5796</b>	<b>2.9323</b>	<b>8.1600e-003</b>	<b>0.0000</b>	<b>0.1524</b>	<b>0.1524</b>	<b>0.0000</b>	<b>0.1402</b>	<b>0.1402</b>		<b>789.7115</b>	<b>789.7115</b>	<b>0.2554</b>		<b>796.0968</b>

Roseville Dry Creek Trail\_Segment A\_Planting - Placer County APCD Air District, Summer

**3.2 Site Preparation - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.7000e-004	0.0124	2.0400e-003	4.0000e-005	8.7000e-004	4.0000e-005	9.2000e-004	2.4000e-004	4.0000e-005	2.8000e-004		4.2823	4.2823	1.3000e-004		4.2855
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0365</b>	<b>0.0316</b>	<b>0.2714</b>	<b>8.3000e-004</b>	<b>0.0830</b>	<b>5.5000e-004</b>	<b>0.0836</b>	<b>0.0220</b>	<b>5.1000e-004</b>	<b>0.0225</b>		<b>83.2659</b>	<b>83.2659</b>	<b>1.9300e-003</b>		<b>83.3142</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3966	3.5796	2.9323	8.1600e-003		0.1524	0.1524		0.1402	0.1402	0.0000	789.7115	789.7115	0.2554		796.0968
<b>Total</b>	<b>0.3966</b>	<b>3.5796</b>	<b>2.9323</b>	<b>8.1600e-003</b>	<b>0.0000</b>	<b>0.1524</b>	<b>0.1524</b>	<b>0.0000</b>	<b>0.1402</b>	<b>0.1402</b>	<b>0.0000</b>	<b>789.7115</b>	<b>789.7115</b>	<b>0.2554</b>		<b>796.0968</b>

Roseville Dry Creek Trail\_Segment A\_Planting - Placer County APCD Air District, Summer

**3.2 Site Preparation - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.7000e-004	0.0124	2.0400e-003	4.0000e-005	8.7000e-004	4.0000e-005	9.2000e-004	2.4000e-004	4.0000e-005	2.8000e-004		4.2823	4.2823	1.3000e-004		4.2855
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0365</b>	<b>0.0316</b>	<b>0.2714</b>	<b>8.3000e-004</b>	<b>0.0830</b>	<b>5.5000e-004</b>	<b>0.0836</b>	<b>0.0220</b>	<b>5.1000e-004</b>	<b>0.0225</b>		<b>83.2659</b>	<b>83.2659</b>	<b>1.9300e-003</b>		<b>83.3142</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Roseville Dry Creek Trail\_Segment A\_Planting - Placer County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
Unmitigated	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330

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

5.0 Energy Detail

Roseville Dry Creek Trail\_Segment A\_Planting - Placer County APCD Air District, Summer

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

Roseville Dry Creek Trail\_Segment A\_Planting - Placer County APCD Air District, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
Unmitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005

Roseville Dry Creek Trail\_Segment A\_Planting - Placer County APCD Air District, Summer

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**7.0 Water Detail**

## Roseville Dry Creek Trail\_Segment A\_Planting - Placer County APCD Air District, Summer

**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment****Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

Rossville Dry Creek Trail\_Segment A\_Retaining Walls/Undercrossings - Placer County APCD Air District, Summer

**Rossville Dry Creek Trail\_Segment A\_Retaining Walls/Undercrossings**  
**Placer County APCD Air District, Summer**

**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 1: Construction Phases and Equipment - Segment A, provided by Psomas, September 2017.

Off-road Equipment - Per Table 1: Construction Phases and Equipment - Segment A, provided by Psomas, September 2017.

Off-road Equipment - Per Table 1: Construction Phases and Equipment - Segment A, 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.

## Rossville Dry Creek Trail\_Segment A\_Retaining Walls/Undercrossings - Placer County APCD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	40.00
tblOffRoadEquipment	HorsePower	221.00	231.00
tblOffRoadEquipment	HorsePower	158.00	89.00
tblOffRoadEquipment	LoadFactor	0.50	0.29
tblOffRoadEquipment	LoadFactor	0.38	0.20
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2018	2023
tblTripsAndVMT	HaulingTripNumber	0.00	8.00
tblTripsAndVMT	VendorTripNumber	2.00	4.00
tblTripsAndVMT	WorkerTripNumber	5.00	10.00

## 2.0 Emissions Summary

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Rossville Dry Creek Trail\_Segment A\_Retaining Walls/Undercrossings - Placer County APCD Air District, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.2749	12.6645	10.7921	0.0247	0.1127	0.5906	0.7033	0.0306	0.5438	0.5743	0.0000	2,398.3594	2,398.3594	0.7088	0.0000	2,416.0799
<b>Maximum</b>	<b>1.2749</b>	<b>12.6645</b>	<b>10.7921</b>	<b>0.0247</b>	<b>0.1127</b>	<b>0.5906</b>	<b>0.7033</b>	<b>0.0306</b>	<b>0.5438</b>	<b>0.5743</b>	<b>0.0000</b>	<b>2,398.3594</b>	<b>2,398.3594</b>	<b>0.7088</b>	<b>0.0000</b>	<b>2,416.0799</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	lb/day										lb/day					
2021	1.2749	12.6645	10.7921	0.0247	0.1127	0.5906	0.7033	0.0306	0.5438	0.5743	0.0000	2,398.3594	2,398.3594	0.7088	0.0000	2,416.0799
<b>Maximum</b>	<b>1.2749</b>	<b>12.6645</b>	<b>10.7921</b>	<b>0.0247</b>	<b>0.1127</b>	<b>0.5906</b>	<b>0.7033</b>	<b>0.0306</b>	<b>0.5438</b>	<b>0.5743</b>	<b>0.0000</b>	<b>2,398.3594</b>	<b>2,398.3594</b>	<b>0.7088</b>	<b>0.0000</b>	<b>2,416.0799</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>

Rossville Dry Creek Trail\_Segment A\_Retaining Walls/Undercrossings - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
<b>Total</b>	<b>9.9600e-003</b>	<b>0.0495</b>	<b>0.0863</b>	<b>3.5000e-004</b>	<b>0.0259</b>	<b>2.3000e-004</b>	<b>0.0262</b>	<b>6.9500e-003</b>	<b>2.2000e-004</b>	<b>7.1600e-003</b>		<b>35.5032</b>	<b>35.5032</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>35.5330</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
<b>Total</b>	<b>9.9600e-003</b>	<b>0.0495</b>	<b>0.0863</b>	<b>3.5000e-004</b>	<b>0.0259</b>	<b>2.3000e-004</b>	<b>0.0262</b>	<b>6.9500e-003</b>	<b>2.2000e-004</b>	<b>7.1600e-003</b>		<b>35.5032</b>	<b>35.5032</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>35.5330</b>

Rossville Dry Creek Trail\_Segment A\_Retaining Walls/Undercrossings - Placer County APCD Air District, Summer

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	4/1/2021	5/26/2021	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; 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	4.00	231	0.29
Building Construction	Excavators	1	4.00	89	0.20
Building Construction	Off-Highway Trucks	1	4.00	402	0.38
Building Construction	Paving Equipment	2	4.00	132	0.36
Building Construction	Plate Compactors	2	2.00	8	0.43
Building Construction	Rollers	1	4.00	80	0.38
Building Construction	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20

Rossville Dry Creek Trail\_Segment A\_Retaining Walls/Undercrossings - Placer County APCD Air District, Summer

**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	12	10.00	4.00	8.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2253	12.1644	10.4391	0.0226		0.5889	0.5889		0.5422	0.5422		2,179.7620	2,179.7620	0.7012		2,197.2919
<b>Total</b>	<b>1.2253</b>	<b>12.1644</b>	<b>10.4391</b>	<b>0.0226</b>		<b>0.5889</b>	<b>0.5889</b>		<b>0.5422</b>	<b>0.5422</b>		<b>2,179.7620</b>	<b>2,179.7620</b>	<b>0.7012</b>		<b>2,197.2919</b>

Rossville Dry Creek Trail\_Segment A\_Retaining Walls/Undercrossings - Placer County APCD Air District, Summer

**3.2 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.4900e-003	0.0497	8.1500e-003	1.6000e-004	3.5000e-003	1.6000e-004	3.6600e-003	9.6000e-004	1.6000e-004	1.1200e-003		17.1291	17.1291	5.2000e-004		17.1421
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0496</b>	<b>0.5000</b>	<b>0.3530</b>	<b>2.1200e-003</b>	<b>0.1127</b>	<b>1.6500e-003</b>	<b>0.1144</b>	<b>0.0306</b>	<b>1.5700e-003</b>	<b>0.0321</b>		<b>218.5974</b>	<b>218.5974</b>	<b>7.6300e-003</b>		<b>218.7881</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.2253	12.1644	10.4391	0.0226		0.5889	0.5889		0.5422	0.5422	0.0000	2,179.7620	2,179.7620	0.7012		2,197.2919
<b>Total</b>	<b>1.2253</b>	<b>12.1644</b>	<b>10.4391</b>	<b>0.0226</b>		<b>0.5889</b>	<b>0.5889</b>		<b>0.5422</b>	<b>0.5422</b>	<b>0.0000</b>	<b>2,179.7620</b>	<b>2,179.7620</b>	<b>0.7012</b>		<b>2,197.2919</b>

Rossville Dry Creek Trail\_Segment A\_Retaining Walls/Undercrossings - Placer County APCD Air District, Summer

**3.2 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.4900e-003	0.0497	8.1500e-003	1.6000e-004	3.5000e-003	1.6000e-004	3.6600e-003	9.6000e-004	1.6000e-004	1.1200e-003		17.1291	17.1291	5.2000e-004		17.1421
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0496</b>	<b>0.5000</b>	<b>0.3530</b>	<b>2.1200e-003</b>	<b>0.1127</b>	<b>1.6500e-003</b>	<b>0.1144</b>	<b>0.0306</b>	<b>1.5700e-003</b>	<b>0.0321</b>		<b>218.5974</b>	<b>218.5974</b>	<b>7.6300e-003</b>		<b>218.7881</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Rossville Dry Creek Trail\_Segment A\_Retaining Walls/Undercrossings - Placer County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
Unmitigated	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330

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

5.0 Energy Detail

Rossville Dry Creek Trail\_Segment A\_Retaining Walls/Undercrossings - Placer County APCD Air District, Summer

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

Rossville Dry Creek Trail\_Segment A\_Retaining Walls/Undercrossings - Placer County APCD Air District, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
Unmitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005

Rossville Dry Creek Trail\_Segment A\_Retaining Walls/Undercrossings - Placer County APCD Air District, Summer

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**7.0 Water Detail**

Rossville Dry Creek Trail\_Segment A\_Retaining Walls/Undercrossings - Placer County APCD Air District, Summer

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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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\_New Bridge 14 - Placer County APCD Air District, Summer

**Roseville Dry Creek Trail\_Segment B\_New Bridge 14**  
**Placer County APCD Air District, Summer**

**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 1: Construction Phases and Equipment - Segment A, provided by Psomas, September 2017.

Off-road Equipment - Per Table 2: Construction Phases and Equipment - Segment A, 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\_New Bridge 14 - Placer County APCD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	50.00
tblConstructionPhase	PhaseEndDate	4/30/2021	7/9/2021
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblProjectCharacteristics	OperationalYear	2018	2023
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 B\_New Bridge 14 - Placer County APCD Air District, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.8239	8.4602	7.6126	0.0134	0.1110	0.4491	0.5601	0.0301	0.4132	0.4433	0.0000	1,313.2486	1,313.2486	0.3642	0.0000	1,322.3529
<b>Maximum</b>	<b>0.8239</b>	<b>8.4602</b>	<b>7.6126</b>	<b>0.0134</b>	<b>0.1110</b>	<b>0.4491</b>	<b>0.5601</b>	<b>0.0301</b>	<b>0.4132</b>	<b>0.4433</b>	<b>0.0000</b>	<b>1,313.2486</b>	<b>1,313.2486</b>	<b>0.3642</b>	<b>0.0000</b>	<b>1,322.3529</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	lb/day										lb/day					
2021	0.8239	8.4602	7.6126	0.0134	0.1110	0.4491	0.5601	0.0301	0.4132	0.4433	0.0000	1,313.2486	1,313.2486	0.3642	0.0000	1,322.3529
<b>Maximum</b>	<b>0.8239</b>	<b>8.4602</b>	<b>7.6126</b>	<b>0.0134</b>	<b>0.1110</b>	<b>0.4491</b>	<b>0.5601</b>	<b>0.0301</b>	<b>0.4132</b>	<b>0.4433</b>	<b>0.0000</b>	<b>1,313.2486</b>	<b>1,313.2486</b>	<b>0.3642</b>	<b>0.0000</b>	<b>1,322.3529</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 B\_New Bridge 14 - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
<b>Total</b>	<b>9.9600e-003</b>	<b>0.0495</b>	<b>0.0863</b>	<b>3.5000e-004</b>	<b>0.0259</b>	<b>2.3000e-004</b>	<b>0.0262</b>	<b>6.9500e-003</b>	<b>2.2000e-004</b>	<b>7.1600e-003</b>		<b>35.5032</b>	<b>35.5032</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>35.5330</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
<b>Total</b>	<b>9.9600e-003</b>	<b>0.0495</b>	<b>0.0863</b>	<b>3.5000e-004</b>	<b>0.0259</b>	<b>2.3000e-004</b>	<b>0.0262</b>	<b>6.9500e-003</b>	<b>2.2000e-004</b>	<b>7.1600e-003</b>		<b>35.5032</b>	<b>35.5032</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>35.5330</b>

Roseville Dry Creek Trail\_Segment B\_New Bridge 14 - Placer County APCD Air District, Summer

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	5/1/2021	7/9/2021	5	50	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

#### OffRoad Equipment

Roseville Dry Creek Trail\_Segment B\_New Bridge 14 - Placer County APCD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Cranes	1	8.00	231	0.29
Architectural Coating	Bore/Drill Rigs	1	8.00	221	0.50
Architectural Coating	Excavators	1	8.00	158	0.38
Architectural Coating	Pumps	1	8.00	84	0.74
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Architectural Coating	Paving Equipment	1	2.00	132	0.36
Architectural Coating	Rollers	1	4.80	80	0.38
Architectural Coating	Tractors/Loaders/Backhoes	1	4.80	97	0.37
Building Construction	Tractors/Loaders/Backhoes	2	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	5	10.00	4.00	5.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Roseville Dry Creek Trail\_Segment B\_New Bridge 14 - Placer County APCD Air District, Summer

**3.2 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7750	7.9850	7.2637	0.0114		0.4475	0.4475		0.4117	0.4117		1,103.2158	1,103.2158	0.3568		1,112.1358
<b>Total</b>	<b>0.7750</b>	<b>7.9850</b>	<b>7.2637</b>	<b>0.0114</b>		<b>0.4475</b>	<b>0.4475</b>		<b>0.4117</b>	<b>0.4117</b>		<b>1,103.2158</b>	<b>1,103.2158</b>	<b>0.3568</b>		<b>1,112.1358</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	lb/day										lb/day					
Hauling	7.4000e-004	0.0249	4.0800e-003	8.0000e-005	1.7500e-003	8.0000e-005	1.8300e-003	4.8000e-004	8.0000e-005	5.6000e-004		8.5646	8.5646	2.6000e-004		8.5711
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0489</b>	<b>0.4752</b>	<b>0.3489</b>	<b>2.0400e-003</b>	<b>0.1110</b>	<b>1.5700e-003</b>	<b>0.1126</b>	<b>0.0301</b>	<b>1.4900e-003</b>	<b>0.0316</b>		<b>210.0328</b>	<b>210.0328</b>	<b>7.3700e-003</b>		<b>210.2170</b>

Roseville Dry Creek Trail\_Segment B\_New Bridge 14 - Placer County APCD Air District, Summer

**3.2 Building Construction - 2021**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7750	7.9850	7.2637	0.0114		0.4475	0.4475		0.4117	0.4117	0.0000	1,103.2158	1,103.2158	0.3568		1,112.1358
<b>Total</b>	<b>0.7750</b>	<b>7.9850</b>	<b>7.2637</b>	<b>0.0114</b>		<b>0.4475</b>	<b>0.4475</b>		<b>0.4117</b>	<b>0.4117</b>	<b>0.0000</b>	<b>1,103.2158</b>	<b>1,103.2158</b>	<b>0.3568</b>		<b>1,112.1358</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	lb/day										lb/day					
Hauling	7.4000e-004	0.0249	4.0800e-003	8.0000e-005	1.7500e-003	8.0000e-005	1.8300e-003	4.8000e-004	8.0000e-005	5.6000e-004		8.5646	8.5646	2.6000e-004		8.5711
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0489</b>	<b>0.4752</b>	<b>0.3489</b>	<b>2.0400e-003</b>	<b>0.1110</b>	<b>1.5700e-003</b>	<b>0.1126</b>	<b>0.0301</b>	<b>1.4900e-003</b>	<b>0.0316</b>		<b>210.0328</b>	<b>210.0328</b>	<b>7.3700e-003</b>		<b>210.2170</b>

**4.0 Operational Detail - Mobile**

Roseville Dry Creek Trail\_Segment B\_New Bridge 14 - Placer County APCD Air District, Summer

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
Unmitigated	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330

**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\_New Bridge 14 - Placer County APCD Air District, Summer

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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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	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Roseville Dry Creek Trail\_Segment B\_New Bridge 14 - Placer County APCD Air District, Summer

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

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

**Mitigated**

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

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Roseville Dry Creek Trail\_Segment B\_New Bridge 14 - Placer County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
Unmitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

Roseville Dry Creek Trail\_Segment B\_New Bridge 14 - Placer County APCD Air District, Summer

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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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**

Roseville Dry Creek Trail\_Segment B\_New Bridge 14 - Placer County APCD Air District, Summer

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

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

Equipment Type	Number
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**11.0 Vegetation**

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

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

**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.

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

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	8.00	15.00
tblConstructionPhase	PhaseEndDate	3/31/2021	4/21/2021
tblGrading	AcresOfGrading	7.50	4.00
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Graders
tblOffRoadEquipment	OffRoadEquipmentType		Off-Highway Trucks
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Other Construction Equipment
tblProjectCharacteristics	OperationalYear	2018	2023
tblTripsAndVMT	HaulingTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	15.00	10.00

## 2.0 Emissions Summary

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

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	2.3395	25.2201	16.2078	0.0317	6.4165	1.1615	7.5780	3.3710	1.0686	4.4396	0.0000	3,084.8161	3,084.8161	0.9363	0.0000	3,108.2235
<b>Maximum</b>	<b>2.3395</b>	<b>25.2201</b>	<b>16.2078</b>	<b>0.0317</b>	<b>6.4165</b>	<b>1.1615</b>	<b>7.5780</b>	<b>3.3710</b>	<b>1.0686</b>	<b>4.4396</b>	<b>0.0000</b>	<b>3,084.8161</b>	<b>3,084.8161</b>	<b>0.9363</b>	<b>0.0000</b>	<b>3,108.2235</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	lb/day										lb/day					
2021	2.3395	25.2201	16.2078	0.0317	6.4165	1.1615	7.5780	3.3710	1.0686	4.4396	0.0000	3,084.8161	3,084.8161	0.9363	0.0000	3,108.2235
<b>Maximum</b>	<b>2.3395</b>	<b>25.2201</b>	<b>16.2078</b>	<b>0.0317</b>	<b>6.4165</b>	<b>1.1615</b>	<b>7.5780</b>	<b>3.3710</b>	<b>1.0686</b>	<b>4.4396</b>	<b>0.0000</b>	<b>3,084.8161</b>	<b>3,084.8161</b>	<b>0.9363</b>	<b>0.0000</b>	<b>3,108.2235</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 B\_Clearing and Grading - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	9.0100e-003	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-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
Mobile	0.1504	0.7912	1.3800	5.6000e-003	0.4148	3.7100e-003	0.4185	0.1112	3.4700e-003	0.1146		568.0496	568.0496	0.0191		568.5275
<b>Total</b>	<b>0.1594</b>	<b>0.7912</b>	<b>1.3804</b>	<b>5.6000e-003</b>	<b>0.4148</b>	<b>3.7100e-003</b>	<b>0.4185</b>	<b>0.1112</b>	<b>3.4700e-003</b>	<b>0.1146</b>		<b>568.0505</b>	<b>568.0505</b>	<b>0.0191</b>	<b>0.0000</b>	<b>568.5284</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	9.0100e-003	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-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
Mobile	0.1504	0.7912	1.3800	5.6000e-003	0.4148	3.7100e-003	0.4185	0.1112	3.4700e-003	0.1146		568.0496	568.0496	0.0191		568.5275
<b>Total</b>	<b>0.1594</b>	<b>0.7912</b>	<b>1.3804</b>	<b>5.6000e-003</b>	<b>0.4148</b>	<b>3.7100e-003</b>	<b>0.4185</b>	<b>0.1112</b>	<b>3.4700e-003</b>	<b>0.1146</b>		<b>568.0505</b>	<b>568.0505</b>	<b>0.0191</b>	<b>0.0000</b>	<b>568.5284</b>

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

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	4/1/2021	4/21/2021	5	15	

Acres of Grading (Site Preparation Phase): 0

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

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

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Tractors/Loaders/Backhoes	1	2.66	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	Excavators	1	4.80	158	0.38
Architectural Coating	Rollers	2	4.00	80	0.38
Architectural Coating	Other Construction Equipment	4	4.00	172	0.42
Grading	Excavators	1	8.00	158	0.38
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	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
Grading	6	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 B\_Clearing and Grading - Placer County APCD Air District, Summer

**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	lb/day										lb/day					
Fugitive Dust					6.3049	0.0000	6.3049	3.3408	0.0000	3.3408			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
<b>Total</b>	<b>2.2903</b>	<b>24.7367</b>	<b>15.8575</b>	<b>0.0296</b>	<b>6.3049</b>	<b>1.1599</b>	<b>7.4648</b>	<b>3.3408</b>	<b>1.0671</b>	<b>4.4079</b>		<b>2,871.9285</b>	<b>2,871.9285</b>	<b>0.9288</b>		<b>2,895.1495</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	lb/day										lb/day					
Hauling	9.9000e-004	0.0332	5.4300e-003	1.1000e-004	2.3300e-003	1.1000e-004	2.4400e-003	6.4000e-004	1.0000e-004	7.4000e-004		11.4194	11.4194	3.5000e-004		11.4281
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0491</b>	<b>0.4835</b>	<b>0.3503</b>	<b>2.0700e-003</b>	<b>0.1116</b>	<b>1.6000e-003</b>	<b>0.1132</b>	<b>0.0302</b>	<b>1.5100e-003</b>	<b>0.0317</b>		<b>212.8876</b>	<b>212.8876</b>	<b>7.4600e-003</b>		<b>213.0740</b>

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

**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	lb/day										lb/day					
Fugitive Dust					6.3049	0.0000	6.3049	3.3408	0.0000	3.3408			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495
<b>Total</b>	<b>2.2903</b>	<b>24.7367</b>	<b>15.8575</b>	<b>0.0296</b>	<b>6.3049</b>	<b>1.1599</b>	<b>7.4648</b>	<b>3.3408</b>	<b>1.0671</b>	<b>4.4079</b>	<b>0.0000</b>	<b>2,871.9285</b>	<b>2,871.9285</b>	<b>0.9288</b>		<b>2,895.1495</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	lb/day										lb/day					
Hauling	9.9000e-004	0.0332	5.4300e-003	1.1000e-004	2.3300e-003	1.1000e-004	2.4400e-003	6.4000e-004	1.0000e-004	7.4000e-004		11.4194	11.4194	3.5000e-004		11.4281
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0491</b>	<b>0.4835</b>	<b>0.3503</b>	<b>2.0700e-003</b>	<b>0.1116</b>	<b>1.6000e-003</b>	<b>0.1132</b>	<b>0.0302</b>	<b>1.5100e-003</b>	<b>0.0317</b>		<b>212.8876</b>	<b>212.8876</b>	<b>7.4600e-003</b>		<b>213.0740</b>

**4.0 Operational Detail - Mobile**

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

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1504	0.7912	1.3800	5.6000e-003	0.4148	3.7100e-003	0.4185	0.1112	3.4700e-003	0.1146		568.0496	568.0496	0.0191		568.5275
Unmitigated	0.1504	0.7912	1.3800	5.6000e-003	0.4148	3.7100e-003	0.4185	0.1112	3.4700e-003	0.1146		568.0496	568.0496	0.0191		568.5275

**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

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

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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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	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

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

**Mitigated**

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

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.0100e-003	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004
Unmitigated	9.0100e-003	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-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	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.9800e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004
<b>Total</b>	<b>9.0200e-003</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>8.8000e-004</b>	<b>8.8000e-004</b>	<b>0.0000</b>		<b>9.3000e-004</b>

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

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.9800e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004
<b>Total</b>	<b>9.0200e-003</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>8.8000e-004</b>	<b>8.8000e-004</b>	<b>0.0000</b>		<b>9.3000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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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**

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

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

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

Equipment Type	Number
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**11.0 Vegetation**

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Roseville Dry Creek Trail\_Segment B\_Drainage and Stabilization - Placer County APCD Air District, Summer

**Roseville Dry Creek Trail\_Segment B\_Drainage and Stabilization**  
**Placer County APCD Air District, Summer**

**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\_Drainage and Stabilization - Placer County APCD Air District, Summer

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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Roseville Dry Creek Trail\_Segment B\_Drainage and Stabilization - Placer County APCD Air District, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.6884	8.2707	4.3723	0.0117	0.1092	0.3010	0.4102	0.0296	0.2769	0.3065	0.0000	1,144.0524	1,144.0524	0.3120	0.0000	1,151.8514
<b>Maximum</b>	<b>0.6884</b>	<b>8.2707</b>	<b>4.3723</b>	<b>0.0117</b>	<b>0.1092</b>	<b>0.3010</b>	<b>0.4102</b>	<b>0.0296</b>	<b>0.2769</b>	<b>0.3065</b>	<b>0.0000</b>	<b>1,144.0524</b>	<b>1,144.0524</b>	<b>0.3120</b>	<b>0.0000</b>	<b>1,151.8514</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	lb/day										lb/day					
2021	0.6884	8.2707	4.3723	0.0117	0.1092	0.3010	0.4102	0.0296	0.2769	0.3065	0.0000	1,144.0524	1,144.0524	0.3120	0.0000	1,151.8514
<b>Maximum</b>	<b>0.6884</b>	<b>8.2707</b>	<b>4.3723</b>	<b>0.0117</b>	<b>0.1092</b>	<b>0.3010</b>	<b>0.4102</b>	<b>0.0296</b>	<b>0.2769</b>	<b>0.3065</b>	<b>0.0000</b>	<b>1,144.0524</b>	<b>1,144.0524</b>	<b>0.3120</b>	<b>0.0000</b>	<b>1,151.8514</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 B\_Drainage and Stabilization - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
<b>Total</b>	<b>9.9600e-003</b>	<b>0.0495</b>	<b>0.0863</b>	<b>3.5000e-004</b>	<b>0.0259</b>	<b>2.3000e-004</b>	<b>0.0262</b>	<b>6.9500e-003</b>	<b>2.2000e-004</b>	<b>7.1600e-003</b>		<b>35.5032</b>	<b>35.5032</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>35.5330</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
<b>Total</b>	<b>9.9600e-003</b>	<b>0.0495</b>	<b>0.0863</b>	<b>3.5000e-004</b>	<b>0.0259</b>	<b>2.3000e-004</b>	<b>0.0262</b>	<b>6.9500e-003</b>	<b>2.2000e-004</b>	<b>7.1600e-003</b>		<b>35.5032</b>	<b>35.5032</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>35.5330</b>

Roseville Dry Creek Trail\_Segment B\_Drainage and Stabilization - Placer County APCD Air District, Summer

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

### 3.0 Construction Detail

#### Construction Phase

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

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; 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

Roseville Dry Creek Trail\_Segment B\_Drainage and Stabilization - Placer County APCD Air District, Summer

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**

**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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6403	7.8204	4.0274	9.7300e-003		0.2995	0.2995		0.2755	0.2755		942.5842	942.5842	0.3049		950.2055
<b>Total</b>	<b>0.6403</b>	<b>7.8204</b>	<b>4.0274</b>	<b>9.7300e-003</b>	<b>0.0000</b>	<b>0.2995</b>	<b>0.2995</b>	<b>0.0000</b>	<b>0.2755</b>	<b>0.2755</b>		<b>942.5842</b>	<b>942.5842</b>	<b>0.3049</b>		<b>950.2055</b>

Roseville Dry Creek Trail\_Segment B\_Drainage and Stabilization - Placer County APCD Air District, Summer

**3.2 Site Preparation - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0481</b>	<b>0.4503</b>	<b>0.3449</b>	<b>1.9600e-003</b>	<b>0.1092</b>	<b>1.4900e-003</b>	<b>0.1107</b>	<b>0.0296</b>	<b>1.4100e-003</b>	<b>0.0310</b>		<b>201.4682</b>	<b>201.4682</b>	<b>7.1100e-003</b>		<b>201.6460</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6403	7.8204	4.0274	9.7300e-003		0.2995	0.2995		0.2755	0.2755	0.0000	942.5842	942.5842	0.3049		950.2055
<b>Total</b>	<b>0.6403</b>	<b>7.8204</b>	<b>4.0274</b>	<b>9.7300e-003</b>	<b>0.0000</b>	<b>0.2995</b>	<b>0.2995</b>	<b>0.0000</b>	<b>0.2755</b>	<b>0.2755</b>	<b>0.0000</b>	<b>942.5842</b>	<b>942.5842</b>	<b>0.3049</b>		<b>950.2055</b>

Roseville Dry Creek Trail\_Segment B\_Drainage and Stabilization - Placer County APCD Air District, Summer

**3.2 Site Preparation - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0481</b>	<b>0.4503</b>	<b>0.3449</b>	<b>1.9600e-003</b>	<b>0.1092</b>	<b>1.4900e-003</b>	<b>0.1107</b>	<b>0.0296</b>	<b>1.4100e-003</b>	<b>0.0310</b>		<b>201.4682</b>	<b>201.4682</b>	<b>7.1100e-003</b>		<b>201.6460</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Roseville Dry Creek Trail\_Segment B\_Drainage and Stabilization - Placer County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
Unmitigated	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330

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

5.0 Energy Detail

Roseville Dry Creek Trail\_Segment B\_Drainage and Stabilization - Placer County APCD Air District, Summer

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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	
<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>	

Roseville Dry Creek Trail\_Segment B\_Drainage and Stabilization - Placer County APCD Air District, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
Unmitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005

Roseville Dry Creek Trail\_Segment B\_Drainage and Stabilization - Placer County APCD Air District, Summer

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**7.0 Water Detail**

Roseville Dry Creek Trail\_Segment B\_Drainage and Stabilization - Placer County APCD Air District, Summer

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

Roseville Dry Creek Trail\_Segment B\_Finish Grading - Placer County APCD Air District, Summer

**Roseville Dry Creek Trail\_Segment B\_Finish Grading  
Placer County APCD Air District, Summer**

**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.

## Roseville Dry Creek Trail\_Segment B\_Finish Grading - Placer County APCD Air District, Summer

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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Roseville Dry Creek Trail\_Segment B\_Finish Grading - Placer County APCD Air District, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	2.4129	27.6736	16.6099	0.0398	6.7305	1.1696	7.9001	3.4336	1.0764	4.5100	0.0000	3,929.8525	3,929.8525	0.9620	0.0000	3,953.9017
<b>Maximum</b>	<b>2.4129</b>	<b>27.6736</b>	<b>16.6099</b>	<b>0.0398</b>	<b>6.7305</b>	<b>1.1696</b>	<b>7.9001</b>	<b>3.4336</b>	<b>1.0764</b>	<b>4.5100</b>	<b>0.0000</b>	<b>3,929.8525</b>	<b>3,929.8525</b>	<b>0.9620</b>	<b>0.0000</b>	<b>3,953.9017</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	lb/day										lb/day					
2021	2.4129	27.6736	16.6099	0.0398	6.7305	1.1696	7.9001	3.4336	1.0764	4.5100	0.0000	3,929.8525	3,929.8525	0.9620	0.0000	3,953.9017
<b>Maximum</b>	<b>2.4129</b>	<b>27.6736</b>	<b>16.6099</b>	<b>0.0398</b>	<b>6.7305</b>	<b>1.1696</b>	<b>7.9001</b>	<b>3.4336</b>	<b>1.0764</b>	<b>4.5100</b>	<b>0.0000</b>	<b>3,929.8525</b>	<b>3,929.8525</b>	<b>0.9620</b>	<b>0.0000</b>	<b>3,953.9017</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 B\_Finish Grading - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	9.0100e-003	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-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
Mobile	0.1504	0.7912	1.3800	5.6000e-003	0.4148	3.7100e-003	0.4185	0.1112	3.4700e-003	0.1146		568.0496	568.0496	0.0191		568.5275
<b>Total</b>	<b>0.1594</b>	<b>0.7912</b>	<b>1.3804</b>	<b>5.6000e-003</b>	<b>0.4148</b>	<b>3.7100e-003</b>	<b>0.4185</b>	<b>0.1112</b>	<b>3.4700e-003</b>	<b>0.1146</b>		<b>568.0505</b>	<b>568.0505</b>	<b>0.0191</b>	<b>0.0000</b>	<b>568.5284</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	9.0100e-003	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-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
Mobile	0.1504	0.7912	1.3800	5.6000e-003	0.4148	3.7100e-003	0.4185	0.1112	3.4700e-003	0.1146		568.0496	568.0496	0.0191		568.5275
<b>Total</b>	<b>0.1594</b>	<b>0.7912</b>	<b>1.3804</b>	<b>5.6000e-003</b>	<b>0.4148</b>	<b>3.7100e-003</b>	<b>0.4185</b>	<b>0.1112</b>	<b>3.4700e-003</b>	<b>0.1146</b>		<b>568.0505</b>	<b>568.0505</b>	<b>0.0191</b>	<b>0.0000</b>	<b>568.5284</b>

Roseville Dry Creek Trail\_Segment B\_Finish Grading - Placer County APCD Air District, Summer

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

### 3.0 Construction Detail

#### Construction Phase

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

Acres of Grading (Site Preparation Phase): 0

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

Roseville Dry Creek Trail\_Segment B\_Finish Grading - Placer County APCD Air District, Summer

**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**

**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	lb/day										lb/day					
Fugitive Dust					6.4463	0.0000	6.4463	3.3560	0.0000	3.3560			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671		2,871.9285	2,871.9285	0.9288		2,895.1495
<b>Total</b>	<b>2.2903</b>	<b>24.7367</b>	<b>15.8575</b>	<b>0.0296</b>	<b>6.4463</b>	<b>1.1599</b>	<b>7.6062</b>	<b>3.3560</b>	<b>1.0671</b>	<b>4.4232</b>		<b>2,871.9285</b>	<b>2,871.9285</b>	<b>0.9288</b>		<b>2,895.1495</b>

Roseville Dry Creek Trail\_Segment B\_Finish Grading - Placer County APCD Air District, Summer

**3.2 Grading - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0745	2.4866	0.4075	8.1700e-003	0.1749	8.2200e-003	0.1831	0.0480	7.8600e-003	0.0558		856.4558	856.4558	0.0260		857.1062
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.1226</b>	<b>2.9369</b>	<b>0.7524</b>	<b>0.0101</b>	<b>0.2842</b>	<b>9.7100e-003</b>	<b>0.2939</b>	<b>0.0775</b>	<b>9.2700e-003</b>	<b>0.0868</b>		<b>1,057.9240</b>	<b>1,057.9240</b>	<b>0.0331</b>		<b>1,058.7522</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.4463	0.0000	6.4463	3.3560	0.0000	3.3560			0.0000			0.0000
Off-Road	2.2903	24.7367	15.8575	0.0296		1.1599	1.1599		1.0671	1.0671	0.0000	2,871.9285	2,871.9285	0.9288		2,895.1495
<b>Total</b>	<b>2.2903</b>	<b>24.7367</b>	<b>15.8575</b>	<b>0.0296</b>	<b>6.4463</b>	<b>1.1599</b>	<b>7.6062</b>	<b>3.3560</b>	<b>1.0671</b>	<b>4.4232</b>	<b>0.0000</b>	<b>2,871.9285</b>	<b>2,871.9285</b>	<b>0.9288</b>		<b>2,895.1495</b>

Roseville Dry Creek Trail\_Segment B\_Finish Grading - Placer County APCD Air District, Summer

**3.2 Grading - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0745	2.4866	0.4075	8.1700e-003	0.1749	8.2200e-003	0.1831	0.0480	7.8600e-003	0.0558		856.4558	856.4558	0.0260		857.1062
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.1226</b>	<b>2.9369</b>	<b>0.7524</b>	<b>0.0101</b>	<b>0.2842</b>	<b>9.7100e-003</b>	<b>0.2939</b>	<b>0.0775</b>	<b>9.2700e-003</b>	<b>0.0868</b>		<b>1,057.9240</b>	<b>1,057.9240</b>	<b>0.0331</b>		<b>1,058.7522</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Roseville Dry Creek Trail\_Segment B\_Finish Grading - Placer County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1504	0.7912	1.3800	5.6000e-003	0.4148	3.7100e-003	0.4185	0.1112	3.4700e-003	0.1146		568.0496	568.0496	0.0191		568.5275
Unmitigated	0.1504	0.7912	1.3800	5.6000e-003	0.4148	3.7100e-003	0.4185	0.1112	3.4700e-003	0.1146		568.0496	568.0496	0.0191		568.5275

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

5.0 Energy Detail

Roseville Dry Creek Trail\_Segment B\_Finish Grading - Placer County APCD Air District, Summer

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

Roseville Dry Creek Trail\_Segment B\_Finish Grading - Placer County APCD Air District, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.0100e-003	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004
Unmitigated	9.0100e-003	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004

Roseville Dry Creek Trail\_Segment B\_Finish Grading - Placer County APCD Air District, Summer

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.9800e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004
<b>Total</b>	<b>9.0200e-003</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>8.8000e-004</b>	<b>8.8000e-004</b>	<b>0.0000</b>		<b>9.3000e-004</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.9800e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004
<b>Total</b>	<b>9.0200e-003</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>8.8000e-004</b>	<b>8.8000e-004</b>	<b>0.0000</b>		<b>9.3000e-004</b>

**7.0 Water Detail**

Roseville Dry Creek Trail\_Segment B\_Finish Grading - Placer County APCD Air District, Summer

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

Roseville Dry Creek Trail\_Segment B\_Paving - Placer County APCD Air District, Summer

**Roseville Dry Creek Trail\_Segment B\_Paving**  
**Placer County APCD Air District, Summer**

**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\_Paving - Placer County APCD Air District, Summer

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\_Paving - Placer County APCD Air District, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.1477	11.4767	12.6357	0.0215	0.1224	0.5809	0.7033	0.0332	0.5362	0.5694	0.0000	2,070.2547	2,070.2547	0.5761	0.0000	2,084.6559
<b>Maximum</b>	<b>1.1477</b>	<b>11.4767</b>	<b>12.6357</b>	<b>0.0215</b>	<b>0.1224</b>	<b>0.5809</b>	<b>0.7033</b>	<b>0.0332</b>	<b>0.5362</b>	<b>0.5694</b>	<b>0.0000</b>	<b>2,070.2547</b>	<b>2,070.2547</b>	<b>0.5761</b>	<b>0.0000</b>	<b>2,084.6559</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	lb/day										lb/day					
2021	1.1477	11.4767	12.6357	0.0215	0.1224	0.5809	0.7033	0.0332	0.5362	0.5694	0.0000	2,070.2547	2,070.2547	0.5761	0.0000	2,084.6559
<b>Maximum</b>	<b>1.1477</b>	<b>11.4767</b>	<b>12.6357</b>	<b>0.0215</b>	<b>0.1224</b>	<b>0.5809</b>	<b>0.7033</b>	<b>0.0332</b>	<b>0.5362</b>	<b>0.5694</b>	<b>0.0000</b>	<b>2,070.2547</b>	<b>2,070.2547</b>	<b>0.5761</b>	<b>0.0000</b>	<b>2,084.6559</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 B\_Paving - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	9.0100e-003	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-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
Mobile	0.1504	0.7912	1.3800	5.6000e-003	0.4148	3.7100e-003	0.4185	0.1112	3.4700e-003	0.1146		568.0496	568.0496	0.0191		568.5275
<b>Total</b>	<b>0.1594</b>	<b>0.7912</b>	<b>1.3804</b>	<b>5.6000e-003</b>	<b>0.4148</b>	<b>3.7100e-003</b>	<b>0.4185</b>	<b>0.1112</b>	<b>3.4700e-003</b>	<b>0.1146</b>		<b>568.0505</b>	<b>568.0505</b>	<b>0.0191</b>	<b>0.0000</b>	<b>568.5284</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	9.0100e-003	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-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
Mobile	0.1504	0.7912	1.3800	5.6000e-003	0.4148	3.7100e-003	0.4185	0.1112	3.4700e-003	0.1146		568.0496	568.0496	0.0191		568.5275
<b>Total</b>	<b>0.1594</b>	<b>0.7912</b>	<b>1.3804</b>	<b>5.6000e-003</b>	<b>0.4148</b>	<b>3.7100e-003</b>	<b>0.4185</b>	<b>0.1112</b>	<b>3.4700e-003</b>	<b>0.1146</b>		<b>568.0505</b>	<b>568.0505</b>	<b>0.0191</b>	<b>0.0000</b>	<b>568.5284</b>

Roseville Dry Creek Trail\_Segment B\_Paving - Placer County APCD Air District, Summer

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Paving	Paving	5/1/2021	5/28/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

#### OffRoad Equipment

Roseville Dry Creek Trail\_Segment B\_Paving - Placer County APCD Air District, Summer

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**

Roseville Dry Creek Trail\_Segment B\_Paving - Placer County APCD Air District, Summer

**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	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342		1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0940</b>	<b>10.8399</b>	<b>12.2603</b>	<b>0.0189</b>		<b>0.5788</b>	<b>0.5788</b>		<b>0.5342</b>	<b>0.5342</b>		<b>1,804.5523</b>	<b>1,804.5523</b>	<b>0.5670</b>		<b>1,818.7270</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	lb/day										lb/day					
Hauling	5.5800e-003	0.1865	0.0306	6.1000e-004	0.0131	6.2000e-004	0.0137	3.6000e-003	5.9000e-004	4.1900e-003		64.2342	64.2342	1.9500e-003		64.2830
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0537</b>	<b>0.6368</b>	<b>0.3754</b>	<b>2.5700e-003</b>	<b>0.1224</b>	<b>2.1100e-003</b>	<b>0.1245</b>	<b>0.0332</b>	<b>2.0000e-003</b>	<b>0.0352</b>		<b>265.7024</b>	<b>265.7024</b>	<b>9.0600e-003</b>		<b>265.9289</b>

Roseville Dry Creek Trail\_Segment B\_Paving - Placer County APCD Air District, Summer

**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	lb/day										lb/day					
Off-Road	1.0940	10.8399	12.2603	0.0189		0.5788	0.5788		0.5342	0.5342	0.0000	1,804.5523	1,804.5523	0.5670		1,818.7270
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0940</b>	<b>10.8399</b>	<b>12.2603</b>	<b>0.0189</b>		<b>0.5788</b>	<b>0.5788</b>		<b>0.5342</b>	<b>0.5342</b>	<b>0.0000</b>	<b>1,804.5523</b>	<b>1,804.5523</b>	<b>0.5670</b>		<b>1,818.7270</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	lb/day										lb/day					
Hauling	5.5800e-003	0.1865	0.0306	6.1000e-004	0.0131	6.2000e-004	0.0137	3.6000e-003	5.9000e-004	4.1900e-003		64.2342	64.2342	1.9500e-003		64.2830
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0537</b>	<b>0.6368</b>	<b>0.3754</b>	<b>2.5700e-003</b>	<b>0.1224</b>	<b>2.1100e-003</b>	<b>0.1245</b>	<b>0.0332</b>	<b>2.0000e-003</b>	<b>0.0352</b>		<b>265.7024</b>	<b>265.7024</b>	<b>9.0600e-003</b>		<b>265.9289</b>

**4.0 Operational Detail - Mobile**

Roseville Dry Creek Trail\_Segment B\_Paving - Placer County APCD Air District, Summer

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1504	0.7912	1.3800	5.6000e-003	0.4148	3.7100e-003	0.4185	0.1112	3.4700e-003	0.1146		568.0496	568.0496	0.0191		568.5275
Unmitigated	0.1504	0.7912	1.3800	5.6000e-003	0.4148	3.7100e-003	0.4185	0.1112	3.4700e-003	0.1146		568.0496	568.0496	0.0191		568.5275

**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

Roseville Dry Creek Trail\_Segment B\_Paving - Placer County APCD Air District, Summer

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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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	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Roseville Dry Creek Trail\_Segment B\_Paving - Placer County APCD Air District, Summer

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

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

**Mitigated**

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

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Roseville Dry Creek Trail\_Segment B\_Paving - Placer County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.0100e-003	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004
Unmitigated	9.0100e-003	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-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	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.9800e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004
<b>Total</b>	<b>9.0200e-003</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>8.8000e-004</b>	<b>8.8000e-004</b>	<b>0.0000</b>		<b>9.3000e-004</b>

Roseville Dry Creek Trail\_Segment B\_Paving - Placer County APCD Air District, Summer

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.9800e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004
<b>Total</b>	<b>9.0200e-003</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>8.8000e-004</b>	<b>8.8000e-004</b>	<b>0.0000</b>		<b>9.3000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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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**

Roseville Dry Creek Trail\_Segment B\_Paving - Placer County APCD Air District, Summer

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

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

Equipment Type	Number
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**11.0 Vegetation**

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

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

**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\_Planting and Erosion Control - Placer County APCD Air District, Summer

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

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.6769	7.8561	4.2995	0.0106	0.0833	0.3000	0.3834	0.0221	0.2760	0.2981	0.0000	1,027.2775	1,027.2775	0.3068	0.0000	1,034.9482
<b>Maximum</b>	<b>0.6769</b>	<b>7.8561</b>	<b>4.2995</b>	<b>0.0106</b>	<b>0.0833</b>	<b>0.3000</b>	<b>0.3834</b>	<b>0.0221</b>	<b>0.2760</b>	<b>0.2981</b>	<b>0.0000</b>	<b>1,027.2775</b>	<b>1,027.2775</b>	<b>0.3068</b>	<b>0.0000</b>	<b>1,034.9482</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	lb/day										lb/day					
2021	0.6769	7.8561	4.2995	0.0106	0.0833	0.3000	0.3834	0.0221	0.2760	0.2981	0.0000	1,027.2775	1,027.2775	0.3068	0.0000	1,034.9482
<b>Maximum</b>	<b>0.6769</b>	<b>7.8561</b>	<b>4.2995</b>	<b>0.0106</b>	<b>0.0833</b>	<b>0.3000</b>	<b>0.3834</b>	<b>0.0221</b>	<b>0.2760</b>	<b>0.2981</b>	<b>0.0000</b>	<b>1,027.2775</b>	<b>1,027.2775</b>	<b>0.3068</b>	<b>0.0000</b>	<b>1,034.9482</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 B\_Planting and Erosion Control - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
<b>Total</b>	<b>9.9600e-003</b>	<b>0.0495</b>	<b>0.0863</b>	<b>3.5000e-004</b>	<b>0.0259</b>	<b>2.3000e-004</b>	<b>0.0262</b>	<b>6.9500e-003</b>	<b>2.2000e-004</b>	<b>7.1600e-003</b>		<b>35.5032</b>	<b>35.5032</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>35.5330</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
<b>Total</b>	<b>9.9600e-003</b>	<b>0.0495</b>	<b>0.0863</b>	<b>3.5000e-004</b>	<b>0.0259</b>	<b>2.3000e-004</b>	<b>0.0262</b>	<b>6.9500e-003</b>	<b>2.2000e-004</b>	<b>7.1600e-003</b>		<b>35.5032</b>	<b>35.5032</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>35.5330</b>

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

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

### 3.0 Construction Detail

#### Construction Phase

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

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; 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

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

**3.1 Mitigation Measures Construction**

**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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6403	7.8204	4.0274	9.7300e-003		0.2995	0.2995		0.2755	0.2755		942.5842	942.5842	0.3049		950.2055
<b>Total</b>	<b>0.6403</b>	<b>7.8204</b>	<b>4.0274</b>	<b>9.7300e-003</b>	<b>0.0000</b>	<b>0.2995</b>	<b>0.2995</b>	<b>0.0000</b>	<b>0.2755</b>	<b>0.2755</b>		<b>942.5842</b>	<b>942.5842</b>	<b>0.3049</b>		<b>950.2055</b>

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

**3.2 Site Preparation - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.0000e-004	0.0166	2.7200e-003	5.0000e-005	1.1700e-003	5.0000e-005	1.2200e-003	3.2000e-004	5.0000e-005	3.7000e-004		5.7097	5.7097	1.7000e-004		5.7140
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0366</b>	<b>0.0357</b>	<b>0.2721</b>	<b>8.4000e-004</b>	<b>0.0833</b>	<b>5.6000e-004</b>	<b>0.0839</b>	<b>0.0221</b>	<b>5.2000e-004</b>	<b>0.0226</b>		<b>84.6933</b>	<b>84.6933</b>	<b>1.9700e-003</b>		<b>84.7427</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.6403	7.8204	4.0274	9.7300e-003		0.2995	0.2995		0.2755	0.2755	0.0000	942.5842	942.5842	0.3049		950.2055
<b>Total</b>	<b>0.6403</b>	<b>7.8204</b>	<b>4.0274</b>	<b>9.7300e-003</b>	<b>0.0000</b>	<b>0.2995</b>	<b>0.2995</b>	<b>0.0000</b>	<b>0.2755</b>	<b>0.2755</b>	<b>0.0000</b>	<b>942.5842</b>	<b>942.5842</b>	<b>0.3049</b>		<b>950.2055</b>

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

**3.2 Site Preparation - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.0000e-004	0.0166	2.7200e-003	5.0000e-005	1.1700e-003	5.0000e-005	1.2200e-003	3.2000e-004	5.0000e-005	3.7000e-004		5.7097	5.7097	1.7000e-004		5.7140
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0366</b>	<b>0.0357</b>	<b>0.2721</b>	<b>8.4000e-004</b>	<b>0.0833</b>	<b>5.6000e-004</b>	<b>0.0839</b>	<b>0.0221</b>	<b>5.2000e-004</b>	<b>0.0226</b>		<b>84.6933</b>	<b>84.6933</b>	<b>1.9700e-003</b>		<b>84.7427</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
Unmitigated	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330

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

5.0 Energy Detail

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

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

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

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
Unmitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**7.0 Water Detail**

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

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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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\_Retaining Walls Undercrossings - Placer County APCD Air District, Summer

**Roseville Dry Creek Trail\_Segment B\_Retaining Walls Undercrossings**  
**Placer County APCD Air District, Summer**

**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

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\_Retaining Walls Undercrossings - Placer County APCD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	30.00
tblConstructionPhase	PhaseEndDate	4/30/2021	6/11/2021
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Paving Equipment
tblOffRoadEquipment	OffRoadEquipmentType		Plate Compactors
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblProjectCharacteristics	OperationalYear	2018	2023
tblTripsAndVMT	HaulingTripNumber	0.00	6.00
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 B\_Retaining Walls Undercrossings - Placer County APCD Air District, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.8246	8.4850	7.6167	0.0135	0.1127	0.4492	0.5619	0.0306	0.4133	0.4439	0.0000	1,321.8131	1,321.8131	0.3644	0.0000	1,330.9239
<b>Maximum</b>	<b>0.8246</b>	<b>8.4850</b>	<b>7.6167</b>	<b>0.0135</b>	<b>0.1127</b>	<b>0.4492</b>	<b>0.5619</b>	<b>0.0306</b>	<b>0.4133</b>	<b>0.4439</b>	<b>0.0000</b>	<b>1,321.8131</b>	<b>1,321.8131</b>	<b>0.3644</b>	<b>0.0000</b>	<b>1,330.9239</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	lb/day										lb/day					
2021	0.8246	8.4850	7.6167	0.0135	0.1127	0.4492	0.5619	0.0306	0.4133	0.4439	0.0000	1,321.8131	1,321.8131	0.3644	0.0000	1,330.9239
<b>Maximum</b>	<b>0.8246</b>	<b>8.4850</b>	<b>7.6167</b>	<b>0.0135</b>	<b>0.1127</b>	<b>0.4492</b>	<b>0.5619</b>	<b>0.0306</b>	<b>0.4133</b>	<b>0.4439</b>	<b>0.0000</b>	<b>1,321.8131</b>	<b>1,321.8131</b>	<b>0.3644</b>	<b>0.0000</b>	<b>1,330.9239</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 B\_Retaining Walls Undercrossings - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
<b>Total</b>	<b>9.9600e-003</b>	<b>0.0495</b>	<b>0.0863</b>	<b>3.5000e-004</b>	<b>0.0259</b>	<b>2.3000e-004</b>	<b>0.0262</b>	<b>6.9500e-003</b>	<b>2.2000e-004</b>	<b>7.1600e-003</b>		<b>35.5032</b>	<b>35.5032</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>35.5330</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
<b>Total</b>	<b>9.9600e-003</b>	<b>0.0495</b>	<b>0.0863</b>	<b>3.5000e-004</b>	<b>0.0259</b>	<b>2.3000e-004</b>	<b>0.0262</b>	<b>6.9500e-003</b>	<b>2.2000e-004</b>	<b>7.1600e-003</b>		<b>35.5032</b>	<b>35.5032</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>35.5330</b>

Roseville Dry Creek Trail\_Segment B\_Retaining Walls Undercrossings - Placer County APCD Air District, Summer

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	5/1/2021	6/11/2021	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; 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	4.00	158	0.38
Architectural Coating	Rollers	1	4.00	80	0.38
Architectural Coating	Paving Equipment	2	4.00	132	0.36
Architectural Coating	Plate Compactors	2	2.00	8	0.43
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Architectural Coating	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Roseville Dry Creek Trail\_Segment B\_Retaining Walls Undercrossings - Placer County APCD Air District, Summer

**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	6.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7750	7.9850	7.2637	0.0114		0.4475	0.4475		0.4117	0.4117		1,103.2158	1,103.2158	0.3568		1,112.1358
<b>Total</b>	<b>0.7750</b>	<b>7.9850</b>	<b>7.2637</b>	<b>0.0114</b>		<b>0.4475</b>	<b>0.4475</b>		<b>0.4117</b>	<b>0.4117</b>		<b>1,103.2158</b>	<b>1,103.2158</b>	<b>0.3568</b>		<b>1,112.1358</b>

Roseville Dry Creek Trail\_Segment B\_Retaining Walls Undercrossings - Placer County APCD Air District, Summer

**3.2 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.4900e-003	0.0497	8.1500e-003	1.6000e-004	3.5000e-003	1.6000e-004	3.6600e-003	9.6000e-004	1.6000e-004	1.1200e-003		17.1291	17.1291	5.2000e-004		17.1421
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0496</b>	<b>0.5000</b>	<b>0.3530</b>	<b>2.1200e-003</b>	<b>0.1127</b>	<b>1.6500e-003</b>	<b>0.1144</b>	<b>0.0306</b>	<b>1.5700e-003</b>	<b>0.0321</b>		<b>218.5974</b>	<b>218.5974</b>	<b>7.6300e-003</b>		<b>218.7881</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7750	7.9850	7.2637	0.0114		0.4475	0.4475		0.4117	0.4117	0.0000	1,103.2158	1,103.2158	0.3568		1,112.1358
<b>Total</b>	<b>0.7750</b>	<b>7.9850</b>	<b>7.2637</b>	<b>0.0114</b>		<b>0.4475</b>	<b>0.4475</b>		<b>0.4117</b>	<b>0.4117</b>	<b>0.0000</b>	<b>1,103.2158</b>	<b>1,103.2158</b>	<b>0.3568</b>		<b>1,112.1358</b>

Roseville Dry Creek Trail\_Segment B\_Retaining Walls Undercrossings - Placer County APCD Air District, Summer

**3.2 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.4900e-003	0.0497	8.1500e-003	1.6000e-004	3.5000e-003	1.6000e-004	3.6600e-003	9.6000e-004	1.6000e-004	1.1200e-003		17.1291	17.1291	5.2000e-004		17.1421
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0496</b>	<b>0.5000</b>	<b>0.3530</b>	<b>2.1200e-003</b>	<b>0.1127</b>	<b>1.6500e-003</b>	<b>0.1144</b>	<b>0.0306</b>	<b>1.5700e-003</b>	<b>0.0321</b>		<b>218.5974</b>	<b>218.5974</b>	<b>7.6300e-003</b>		<b>218.7881</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Roseville Dry Creek Trail\_Segment B\_Retaining Walls Undercrossings - Placer County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
Unmitigated	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330

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

5.0 Energy Detail

Roseville Dry Creek Trail\_Segment B\_Retaining Walls Undercrossings - Placer County APCD Air District, Summer

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

Roseville Dry Creek Trail\_Segment B\_Retaining Walls Undercrossings - Placer County APCD Air District, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
Unmitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005

Roseville Dry Creek Trail\_Segment B\_Retaining Walls Undercrossings - Placer County APCD Air District, Summer

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**7.0 Water Detail**

Roseville Dry Creek Trail\_Segment B\_Retaining Walls Undercrossings - Placer County APCD Air District, Summer

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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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\_New Bridge 13 - Placer County APCD Air District, Summer

**Roseville Dry Creek Trail\_Segment B\_New Bridge 13**  
**Placer County APCD Air District, Summer**

**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 2: Construction Phases and Equipment - Segment B, provided by Psomas, August 2014.

Off-road Equipment - Per Table 2: Construction Phases and Equipment - Segment B, provided by Psomas, August 2014.

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, August 2014.

## Roseville Dry Creek Trail\_Segment B\_New Bridge 13 - Placer County APCD Air District, Summer

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	2023
tblTripsAndVMT	HaulingTripNumber	0.00	3.00
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 B\_New Bridge 13 - Placer County APCD Air District, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.3583	13.9679	12.4393	0.0234	0.1106	0.6804	0.7910	0.0300	0.6403	0.6702	0.0000	2,263.3534	2,263.3534	0.5046	0.0000	2,275.9675
<b>Maximum</b>	<b>1.3583</b>	<b>13.9679</b>	<b>12.4393</b>	<b>0.0234</b>	<b>0.1106</b>	<b>0.6804</b>	<b>0.7910</b>	<b>0.0300</b>	<b>0.6403</b>	<b>0.6702</b>	<b>0.0000</b>	<b>2,263.3534</b>	<b>2,263.3534</b>	<b>0.5046</b>	<b>0.0000</b>	<b>2,275.9675</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	lb/day										lb/day					
2021	1.3583	13.9679	12.4393	0.0234	0.1106	0.6804	0.7910	0.0300	0.6403	0.6702	0.0000	2,263.3534	2,263.3534	0.5046	0.0000	2,275.9675
<b>Maximum</b>	<b>1.3583</b>	<b>13.9679</b>	<b>12.4393</b>	<b>0.0234</b>	<b>0.1106</b>	<b>0.6804</b>	<b>0.7910</b>	<b>0.0300</b>	<b>0.6403</b>	<b>0.6702</b>	<b>0.0000</b>	<b>2,263.3534</b>	<b>2,263.3534</b>	<b>0.5046</b>	<b>0.0000</b>	<b>2,275.9675</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 B\_New Bridge 13 - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
<b>Total</b>	<b>9.9600e-003</b>	<b>0.0495</b>	<b>0.0863</b>	<b>3.5000e-004</b>	<b>0.0259</b>	<b>2.3000e-004</b>	<b>0.0262</b>	<b>6.9500e-003</b>	<b>2.2000e-004</b>	<b>7.1600e-003</b>		<b>35.5032</b>	<b>35.5032</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>35.5330</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
<b>Total</b>	<b>9.9600e-003</b>	<b>0.0495</b>	<b>0.0863</b>	<b>3.5000e-004</b>	<b>0.0259</b>	<b>2.3000e-004</b>	<b>0.0262</b>	<b>6.9500e-003</b>	<b>2.2000e-004</b>	<b>7.1600e-003</b>		<b>35.5032</b>	<b>35.5032</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>35.5330</b>

Roseville Dry Creek Trail\_Segment B\_New Bridge 13 - Placer County APCD Air District, Summer

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	5/1/2021	6/25/2021	5	40	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; 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

Roseville Dry Creek Trail\_Segment B\_New Bridge 13 - Placer County APCD Air District, Summer

**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	3.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3096	13.4990	12.0914	0.0214		0.6789	0.6789		0.6388	0.6388		2,055.4617	2,055.4617	0.4973		2,067.8933
<b>Total</b>	<b>1.3096</b>	<b>13.4990</b>	<b>12.0914</b>	<b>0.0214</b>		<b>0.6789</b>	<b>0.6789</b>		<b>0.6388</b>	<b>0.6388</b>		<b>2,055.4617</b>	<b>2,055.4617</b>	<b>0.4973</b>		<b>2,067.8933</b>

Roseville Dry Creek Trail\_Segment B\_New Bridge 13 - Placer County APCD Air District, Summer

**3.2 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.6000e-004	0.0187	3.0600e-003	6.0000e-005	1.3100e-003	6.0000e-005	1.3700e-003	3.6000e-004	6.0000e-005	4.2000e-004		6.4234	6.4234	2.0000e-004		6.4283
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0487</b>	<b>0.4690</b>	<b>0.3479</b>	<b>2.0200e-003</b>	<b>0.1106</b>	<b>1.5500e-003</b>	<b>0.1121</b>	<b>0.0300</b>	<b>1.4700e-003</b>	<b>0.0314</b>		<b>207.8917</b>	<b>207.8917</b>	<b>7.3100e-003</b>		<b>208.0743</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3096	13.4990	12.0914	0.0214		0.6789	0.6789		0.6388	0.6388	0.0000	2,055.4617	2,055.4617	0.4973		2,067.8933
<b>Total</b>	<b>1.3096</b>	<b>13.4990</b>	<b>12.0914</b>	<b>0.0214</b>		<b>0.6789</b>	<b>0.6789</b>		<b>0.6388</b>	<b>0.6388</b>	<b>0.0000</b>	<b>2,055.4617</b>	<b>2,055.4617</b>	<b>0.4973</b>		<b>2,067.8933</b>

Roseville Dry Creek Trail\_Segment B\_New Bridge 13 - Placer County APCD Air District, Summer

**3.2 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.6000e-004	0.0187	3.0600e-003	6.0000e-005	1.3100e-003	6.0000e-005	1.3700e-003	3.6000e-004	6.0000e-005	4.2000e-004		6.4234	6.4234	2.0000e-004		6.4283
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0487</b>	<b>0.4690</b>	<b>0.3479</b>	<b>2.0200e-003</b>	<b>0.1106</b>	<b>1.5500e-003</b>	<b>0.1121</b>	<b>0.0300</b>	<b>1.4700e-003</b>	<b>0.0314</b>		<b>207.8917</b>	<b>207.8917</b>	<b>7.3100e-003</b>		<b>208.0743</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Roseville Dry Creek Trail\_Segment B\_New Bridge 13 - Placer County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
Unmitigated	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330

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

5.0 Energy Detail

Roseville Dry Creek Trail\_Segment B\_New Bridge 13 - Placer County APCD Air District, Summer

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

Roseville Dry Creek Trail\_Segment B\_New Bridge 13 - Placer County APCD Air District, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
Unmitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005

Roseville Dry Creek Trail\_Segment B\_New Bridge 13 - Placer County APCD Air District, Summer

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**7.0 Water Detail**

Roseville Dry Creek Trail\_Segment B\_New Bridge 13 - Placer County APCD Air District, Summer

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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

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

**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, August 2014.

Off-road Equipment - Per Table 2: Construction Phases and Equipment - Segment B provided by Psomas, August 2014.

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, August 2014.

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

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

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	8.00	15.00
tblGrading	AcresOfGrading	3.75	4.00
tblOffRoadEquipment	HorsePower	172.00	88.00
tblOffRoadEquipment	HorsePower	80.00	247.00
tblOffRoadEquipment	LoadFactor	0.42	0.34
tblOffRoadEquipment	LoadFactor	0.38	0.40
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	8.00	4.70
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 B\_Clearing and Grading - Placer County APCD Air District, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.6271	17.0297	11.7699	0.0297	0.3944	0.7736	1.1680	0.0608	0.7118	0.7725	0.0000	2,891.8836	2,891.8836	0.8739	0.0000	2,913.7310
<b>Maximum</b>	<b>1.6271</b>	<b>17.0297</b>	<b>11.7699</b>	<b>0.0297</b>	<b>0.3944</b>	<b>0.7736</b>	<b>1.1680</b>	<b>0.0608</b>	<b>0.7118</b>	<b>0.7725</b>	<b>0.0000</b>	<b>2,891.8836</b>	<b>2,891.8836</b>	<b>0.8739</b>	<b>0.0000</b>	<b>2,913.7310</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	lb/day										lb/day					
2021	1.6271	17.0297	11.7699	0.0297	0.3944	0.7736	1.1680	0.0608	0.7118	0.7725	0.0000	2,891.8836	2,891.8836	0.8739	0.0000	2,913.7310
<b>Maximum</b>	<b>1.6271</b>	<b>17.0297</b>	<b>11.7699</b>	<b>0.0297</b>	<b>0.3944</b>	<b>0.7736</b>	<b>1.1680</b>	<b>0.0608</b>	<b>0.7118</b>	<b>0.7725</b>	<b>0.0000</b>	<b>2,891.8836</b>	<b>2,891.8836</b>	<b>0.8739</b>	<b>0.0000</b>	<b>2,913.7310</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 B\_Clearing and Grading - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	9.0100e-003	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-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
Mobile	0.1504	0.7912	1.3800	5.6000e-003	0.4148	3.7100e-003	0.4185	0.1112	3.4700e-003	0.1146		568.0496	568.0496	0.0191		568.5275
<b>Total</b>	<b>0.1594</b>	<b>0.7912</b>	<b>1.3804</b>	<b>5.6000e-003</b>	<b>0.4148</b>	<b>3.7100e-003</b>	<b>0.4185</b>	<b>0.1112</b>	<b>3.4700e-003</b>	<b>0.1146</b>		<b>568.0505</b>	<b>568.0505</b>	<b>0.0191</b>	<b>0.0000</b>	<b>568.5284</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	9.0100e-003	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-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
Mobile	0.1504	0.7912	1.3800	5.6000e-003	0.4148	3.7100e-003	0.4185	0.1112	3.4700e-003	0.1146		568.0496	568.0496	0.0191		568.5275
<b>Total</b>	<b>0.1594</b>	<b>0.7912</b>	<b>1.3804</b>	<b>5.6000e-003</b>	<b>0.4148</b>	<b>3.7100e-003</b>	<b>0.4185</b>	<b>0.1112</b>	<b>3.4700e-003</b>	<b>0.1146</b>		<b>568.0505</b>	<b>568.0505</b>	<b>0.0191</b>	<b>0.0000</b>	<b>568.5284</b>

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

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	4/1/2021	4/21/2021	5	15	

Acres of Grading (Site Preparation Phase): 0

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	4.70	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	88	0.34
Grading	Rollers	2	4.00	247	0.40
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	2.70	97	0.37

#### Trips and VMT

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

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**

**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	lb/day										lb/day					
Fugitive Dust					0.2828	0.0000	0.2828	0.0305	0.0000	0.0305			0.0000			0.0000
Off-Road	1.5780	16.5463	11.4197	0.0277		0.7720	0.7720		0.7103	0.7103		2,678.9959	2,678.9959	0.8664		2,700.6570
<b>Total</b>	<b>1.5780</b>	<b>16.5463</b>	<b>11.4197</b>	<b>0.0277</b>	<b>0.2828</b>	<b>0.7720</b>	<b>1.0548</b>	<b>0.0305</b>	<b>0.7103</b>	<b>0.7408</b>		<b>2,678.9959</b>	<b>2,678.9959</b>	<b>0.8664</b>		<b>2,700.6570</b>

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

**3.2 Grading - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.9000e-004	0.0332	5.4300e-003	1.1000e-004	2.3300e-003	1.1000e-004	2.4400e-003	6.4000e-004	1.0000e-004	7.4000e-004		11.4194	11.4194	3.5000e-004		11.4281
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0491</b>	<b>0.4835</b>	<b>0.3503</b>	<b>2.0700e-003</b>	<b>0.1116</b>	<b>1.6000e-003</b>	<b>0.1132</b>	<b>0.0302</b>	<b>1.5100e-003</b>	<b>0.0317</b>		<b>212.8876</b>	<b>212.8876</b>	<b>7.4600e-003</b>		<b>213.0740</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.2828	0.0000	0.2828	0.0305	0.0000	0.0305			0.0000			0.0000
Off-Road	1.5780	16.5463	11.4197	0.0277		0.7720	0.7720		0.7103	0.7103	0.0000	2,678.9959	2,678.9959	0.8664		2,700.6570
<b>Total</b>	<b>1.5780</b>	<b>16.5463</b>	<b>11.4197</b>	<b>0.0277</b>	<b>0.2828</b>	<b>0.7720</b>	<b>1.0548</b>	<b>0.0305</b>	<b>0.7103</b>	<b>0.7408</b>	<b>0.0000</b>	<b>2,678.9959</b>	<b>2,678.9959</b>	<b>0.8664</b>		<b>2,700.6570</b>

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

**3.2 Grading - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	9.9000e-004	0.0332	5.4300e-003	1.1000e-004	2.3300e-003	1.1000e-004	2.4400e-003	6.4000e-004	1.0000e-004	7.4000e-004		11.4194	11.4194	3.5000e-004		11.4281
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0491</b>	<b>0.4835</b>	<b>0.3503</b>	<b>2.0700e-003</b>	<b>0.1116</b>	<b>1.6000e-003</b>	<b>0.1132</b>	<b>0.0302</b>	<b>1.5100e-003</b>	<b>0.0317</b>		<b>212.8876</b>	<b>212.8876</b>	<b>7.4600e-003</b>		<b>213.0740</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1504	0.7912	1.3800	5.6000e-003	0.4148	3.7100e-003	0.4185	0.1112	3.4700e-003	0.1146		568.0496	568.0496	0.0191		568.5275
Unmitigated	0.1504	0.7912	1.3800	5.6000e-003	0.4148	3.7100e-003	0.4185	0.1112	3.4700e-003	0.1146		568.0496	568.0496	0.0191		568.5275

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

5.0 Energy Detail

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

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

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

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.0100e-003	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004
Unmitigated	9.0100e-003	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.9800e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004
<b>Total</b>	<b>9.0200e-003</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>8.8000e-004</b>	<b>8.8000e-004</b>	<b>0.0000</b>		<b>9.3000e-004</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.9800e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004
<b>Total</b>	<b>9.0200e-003</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>8.8000e-004</b>	<b>8.8000e-004</b>	<b>0.0000</b>		<b>9.3000e-004</b>

**7.0 Water Detail**

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

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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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\_Drainage and Stabilization - Placer County APCD Air District, Summer

**Roseville Dry Creek Trail\_Segment B\_Drainage and Stabilization**  
**Placer County APCD Air District, Summer**

**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.

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 - No grading

## Roseville Dry Creek Trail\_Segment B\_Drainage and Stabilization - Placer County APCD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1.00	15.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	8.00	2.00
tblProjectCharacteristics	OperationalYear	2018	2023
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	13.00	10.00

## 2.0 Emissions Summary

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Roseville Dry Creek Trail\_Segment B\_Drainage and Stabilization - Placer County APCD Air District, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.3997	3.7486	3.8997	9.3700e-003	0.1092	0.1517	0.2610	0.0296	0.1396	0.1692	0.0000	918.5998	918.5998	0.2390	0.0000	924.5760
<b>Maximum</b>	<b>0.3997</b>	<b>3.7486</b>	<b>3.8997</b>	<b>9.3700e-003</b>	<b>0.1092</b>	<b>0.1517</b>	<b>0.2610</b>	<b>0.0296</b>	<b>0.1396</b>	<b>0.1692</b>	<b>0.0000</b>	<b>918.5998</b>	<b>918.5998</b>	<b>0.2390</b>	<b>0.0000</b>	<b>924.5760</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	lb/day										lb/day					
2021	0.3997	3.7486	3.8997	9.3700e-003	0.1092	0.1517	0.2610	0.0296	0.1396	0.1692	0.0000	918.5998	918.5998	0.2390	0.0000	924.5760
<b>Maximum</b>	<b>0.3997</b>	<b>3.7486</b>	<b>3.8997</b>	<b>9.3700e-003</b>	<b>0.1092</b>	<b>0.1517</b>	<b>0.2610</b>	<b>0.0296</b>	<b>0.1396</b>	<b>0.1692</b>	<b>0.0000</b>	<b>918.5998</b>	<b>918.5998</b>	<b>0.2390</b>	<b>0.0000</b>	<b>924.5760</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 B\_Drainage and Stabilization - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
<b>Total</b>	<b>9.9600e-003</b>	<b>0.0495</b>	<b>0.0863</b>	<b>3.5000e-004</b>	<b>0.0259</b>	<b>2.3000e-004</b>	<b>0.0262</b>	<b>6.9500e-003</b>	<b>2.2000e-004</b>	<b>7.1600e-003</b>		<b>35.5032</b>	<b>35.5032</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>35.5330</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
<b>Total</b>	<b>9.9600e-003</b>	<b>0.0495</b>	<b>0.0863</b>	<b>3.5000e-004</b>	<b>0.0259</b>	<b>2.3000e-004</b>	<b>0.0262</b>	<b>6.9500e-003</b>	<b>2.2000e-004</b>	<b>7.1600e-003</b>		<b>35.5032</b>	<b>35.5032</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>35.5330</b>

Roseville Dry Creek Trail\_Segment B\_Drainage and Stabilization - Placer County APCD Air District, Summer

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

### 3.0 Construction Detail

#### Construction Phase

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

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Excavators	1	2.00	158	0.38
Site Preparation	Off-Highway Trucks	1	2.00	402	0.38
Site Preparation	Paving Equipment	2	2.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	1	2.00	97	0.37
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

#### Trips and VMT

Roseville Dry Creek Trail\_Segment B\_Drainage and Stabilization - Placer County APCD Air District, Summer

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	5	10.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3516	3.2983	3.5548	7.4100e-003		0.1502	0.1502		0.1382	0.1382		717.1316	717.1316	0.2319		722.9300
<b>Total</b>	<b>0.3516</b>	<b>3.2983</b>	<b>3.5548</b>	<b>7.4100e-003</b>	<b>0.0000</b>	<b>0.1502</b>	<b>0.1502</b>	<b>0.0000</b>	<b>0.1382</b>	<b>0.1382</b>		<b>717.1316</b>	<b>717.1316</b>	<b>0.2319</b>		<b>722.9300</b>

Roseville Dry Creek Trail\_Segment B\_Drainage and Stabilization - Placer County APCD Air District, Summer

**3.2 Site Preparation - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0481</b>	<b>0.4503</b>	<b>0.3449</b>	<b>1.9600e-003</b>	<b>0.1092</b>	<b>1.4900e-003</b>	<b>0.1107</b>	<b>0.0296</b>	<b>1.4100e-003</b>	<b>0.0310</b>		<b>201.4682</b>	<b>201.4682</b>	<b>7.1100e-003</b>		<b>201.6460</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.3516	3.2983	3.5548	7.4100e-003		0.1502	0.1502		0.1382	0.1382	0.0000	717.1316	717.1316	0.2319		722.9300
<b>Total</b>	<b>0.3516</b>	<b>3.2983</b>	<b>3.5548</b>	<b>7.4100e-003</b>	<b>0.0000</b>	<b>0.1502</b>	<b>0.1502</b>	<b>0.0000</b>	<b>0.1382</b>	<b>0.1382</b>	<b>0.0000</b>	<b>717.1316</b>	<b>717.1316</b>	<b>0.2319</b>		<b>722.9300</b>

Roseville Dry Creek Trail\_Segment B\_Drainage and Stabilization - Placer County APCD Air District, Summer

**3.2 Site Preparation - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0481</b>	<b>0.4503</b>	<b>0.3449</b>	<b>1.9600e-003</b>	<b>0.1092</b>	<b>1.4900e-003</b>	<b>0.1107</b>	<b>0.0296</b>	<b>1.4100e-003</b>	<b>0.0310</b>		<b>201.4682</b>	<b>201.4682</b>	<b>7.1100e-003</b>		<b>201.6460</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Roseville Dry Creek Trail\_Segment B\_Drainage and Stabilization - Placer County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
Unmitigated	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330

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

5.0 Energy Detail

Roseville Dry Creek Trail\_Segment B\_Drainage and Stabilization - Placer County APCD Air District, Summer

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

Roseville Dry Creek Trail\_Segment B\_Drainage and Stabilization - Placer County APCD Air District, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
Unmitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005

Roseville Dry Creek Trail\_Segment B\_Drainage and Stabilization - Placer County APCD Air District, Summer

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**7.0 Water Detail**

Roseville Dry Creek Trail\_Segment B\_Drainage and Stabilization - Placer County APCD Air District, Summer

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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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\_Finish Grading - Placer County APCD Air District, Summer

**Roseville Dry Creek Trail\_Segment B\_Finish Grading**  
**Placer County APCD Air District, Summer**

**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, August 2014.

Off-road Equipment - Per Table 2: Construction Phases and Equipment - Segment B, provided by Psomas, August 2014.

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, August 2014.

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

## Roseville Dry Creek Trail\_Segment B\_Finish Grading - Placer County APCD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	8.00	10.00
tblGrading	AcresOfGrading	2.50	4.00
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	2023
tblTripsAndVMT	HaulingTripNumber	0.00	1.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	13.00	10.00

## 2.0 Emissions Summary

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Roseville Dry Creek Trail\_Segment B\_Finish Grading - Placer County APCD Air District, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.8588	9.9194	6.2633	0.0180	0.5352	0.3524	0.8876	0.0759	0.3243	0.4001	0.0000	1,755.3637	1,755.3637	0.5072	0.0000	1,768.0428
<b>Maximum</b>	<b>0.8588</b>	<b>9.9194</b>	<b>6.2633</b>	<b>0.0180</b>	<b>0.5352</b>	<b>0.3524</b>	<b>0.8876</b>	<b>0.0759</b>	<b>0.3243</b>	<b>0.4001</b>	<b>0.0000</b>	<b>1,755.3637</b>	<b>1,755.3637</b>	<b>0.5072</b>	<b>0.0000</b>	<b>1,768.0428</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	lb/day										lb/day					
2021	0.8588	9.9194	6.2633	0.0180	0.5352	0.3524	0.8876	0.0759	0.3243	0.4001	0.0000	1,755.3637	1,755.3637	0.5072	0.0000	1,768.0428
<b>Maximum</b>	<b>0.8588</b>	<b>9.9194</b>	<b>6.2633</b>	<b>0.0180</b>	<b>0.5352</b>	<b>0.3524</b>	<b>0.8876</b>	<b>0.0759</b>	<b>0.3243</b>	<b>0.4001</b>	<b>0.0000</b>	<b>1,755.3637</b>	<b>1,755.3637</b>	<b>0.5072</b>	<b>0.0000</b>	<b>1,768.0428</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 B\_Finish Grading - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	9.0100e-003	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-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
Mobile	0.1504	0.7912	1.3800	5.6000e-003	0.4148	3.7100e-003	0.4185	0.1112	3.4700e-003	0.1146		568.0496	568.0496	0.0191		568.5275
<b>Total</b>	<b>0.1594</b>	<b>0.7912</b>	<b>1.3804</b>	<b>5.6000e-003</b>	<b>0.4148</b>	<b>3.7100e-003</b>	<b>0.4185</b>	<b>0.1112</b>	<b>3.4700e-003</b>	<b>0.1146</b>		<b>568.0505</b>	<b>568.0505</b>	<b>0.0191</b>	<b>0.0000</b>	<b>568.5284</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	9.0100e-003	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-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
Mobile	0.1504	0.7912	1.3800	5.6000e-003	0.4148	3.7100e-003	0.4185	0.1112	3.4700e-003	0.1146		568.0496	568.0496	0.0191		568.5275
<b>Total</b>	<b>0.1594</b>	<b>0.7912</b>	<b>1.3804</b>	<b>5.6000e-003</b>	<b>0.4148</b>	<b>3.7100e-003</b>	<b>0.4185</b>	<b>0.1112</b>	<b>3.4700e-003</b>	<b>0.1146</b>		<b>568.0505</b>	<b>568.0505</b>	<b>0.0191</b>	<b>0.0000</b>	<b>568.5284</b>

Roseville Dry Creek Trail\_Segment B\_Finish Grading - Placer County APCD Air District, Summer

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

### 3.0 Construction Detail

#### Construction Phase

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

Acres of Grading (Site Preparation Phase): 0

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	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

Roseville Dry Creek Trail\_Segment B\_Finish Grading - Placer County APCD Air District, Summer

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	1.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**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	lb/day										lb/day					
Fugitive Dust					0.4242	0.0000	0.4242	0.0458	0.0000	0.0458			0.0000			0.0000
Off-Road	0.8099	9.4442	5.9144	0.0160		0.3509	0.3509		0.3228	0.3228		1,545.3310	1,545.3310	0.4998		1,557.8257
<b>Total</b>	<b>0.8099</b>	<b>9.4442</b>	<b>5.9144</b>	<b>0.0160</b>	<b>0.4242</b>	<b>0.3509</b>	<b>0.7751</b>	<b>0.0458</b>	<b>0.3228</b>	<b>0.3686</b>		<b>1,545.3310</b>	<b>1,545.3310</b>	<b>0.4998</b>		<b>1,557.8257</b>

Roseville Dry Creek Trail\_Segment B\_Finish Grading - Placer County APCD Air District, Summer

**3.2 Grading - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.4000e-004	0.0249	4.0800e-003	8.0000e-005	1.7500e-003	8.0000e-005	1.8300e-003	4.8000e-004	8.0000e-005	5.6000e-004		8.5646	8.5646	2.6000e-004		8.5711
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0489</b>	<b>0.4752</b>	<b>0.3489</b>	<b>2.0400e-003</b>	<b>0.1110</b>	<b>1.5700e-003</b>	<b>0.1126</b>	<b>0.0301</b>	<b>1.4900e-003</b>	<b>0.0316</b>		<b>210.0328</b>	<b>210.0328</b>	<b>7.3700e-003</b>		<b>210.2170</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4242	0.0000	0.4242	0.0458	0.0000	0.0458			0.0000			0.0000
Off-Road	0.8099	9.4442	5.9144	0.0160		0.3509	0.3509		0.3228	0.3228	0.0000	1,545.3310	1,545.3310	0.4998		1,557.8257
<b>Total</b>	<b>0.8099</b>	<b>9.4442</b>	<b>5.9144</b>	<b>0.0160</b>	<b>0.4242</b>	<b>0.3509</b>	<b>0.7751</b>	<b>0.0458</b>	<b>0.3228</b>	<b>0.3686</b>	<b>0.0000</b>	<b>1,545.3310</b>	<b>1,545.3310</b>	<b>0.4998</b>		<b>1,557.8257</b>

Roseville Dry Creek Trail\_Segment B\_Finish Grading - Placer County APCD Air District, Summer

**3.2 Grading - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.4000e-004	0.0249	4.0800e-003	8.0000e-005	1.7500e-003	8.0000e-005	1.8300e-003	4.8000e-004	8.0000e-005	5.6000e-004		8.5646	8.5646	2.6000e-004		8.5711
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0489</b>	<b>0.4752</b>	<b>0.3489</b>	<b>2.0400e-003</b>	<b>0.1110</b>	<b>1.5700e-003</b>	<b>0.1126</b>	<b>0.0301</b>	<b>1.4900e-003</b>	<b>0.0316</b>		<b>210.0328</b>	<b>210.0328</b>	<b>7.3700e-003</b>		<b>210.2170</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

Roseville Dry Creek Trail\_Segment B\_Finish Grading - Placer County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1504	0.7912	1.3800	5.6000e-003	0.4148	3.7100e-003	0.4185	0.1112	3.4700e-003	0.1146		568.0496	568.0496	0.0191		568.5275
Unmitigated	0.1504	0.7912	1.3800	5.6000e-003	0.4148	3.7100e-003	0.4185	0.1112	3.4700e-003	0.1146		568.0496	568.0496	0.0191		568.5275

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

5.0 Energy Detail

Roseville Dry Creek Trail\_Segment B\_Finish Grading - Placer County APCD Air District, Summer

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

Roseville Dry Creek Trail\_Segment B\_Finish Grading - Placer County APCD Air District, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.0100e-003	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004
Unmitigated	9.0100e-003	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004

Roseville Dry Creek Trail\_Segment B\_Finish Grading - Placer County APCD Air District, Summer

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.9800e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004
<b>Total</b>	<b>9.0200e-003</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>8.8000e-004</b>	<b>8.8000e-004</b>	<b>0.0000</b>		<b>9.3000e-004</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.9800e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004
<b>Total</b>	<b>9.0200e-003</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>8.8000e-004</b>	<b>8.8000e-004</b>	<b>0.0000</b>		<b>9.3000e-004</b>

**7.0 Water Detail**

Roseville Dry Creek Trail\_Segment B\_Finish Grading - Placer County APCD Air District, Summer

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

Roseville Dry Creek Trail\_Segment B\_Paving - Placer County APCD Air District, Summer

**Roseville Dry Creek Trail\_Segment B\_Paving**  
**Placer County APCD Air District, Summer**

**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, August 2014.

Off-road Equipment - Per Table 2: Construction Phases and Equipment - Segment B, provided by Psomas, August 2014.

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, August 2014.

## Roseville Dry Creek Trail\_Segment B\_Paving - Placer County APCD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	18.00	20.00
tblOffRoadEquipment	HorsePower	130.00	9.00
tblOffRoadEquipment	HorsePower	97.00	130.00
tblOffRoadEquipment	LoadFactor	0.42	0.56
tblOffRoadEquipment	LoadFactor	0.37	0.42
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	8.00	4.80
tblOffRoadEquipment	UsageHours	6.00	4.00
tblOffRoadEquipment	UsageHours	6.00	4.80
tblOffRoadEquipment	UsageHours	8.00	4.80
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2018	2023
tblTripsAndVMT	HaulingTripNumber	0.00	10.00
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 B\_Paving - Placer County APCD Air District, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.6926	6.9634	8.0790	0.0139	0.1180	0.3549	0.4729	0.0320	0.3266	0.3586	0.0000	1,364.2356	1,364.2356	0.3706	0.0000	1,373.5011
<b>Maximum</b>	<b>0.6926</b>	<b>6.9634</b>	<b>8.0790</b>	<b>0.0139</b>	<b>0.1180</b>	<b>0.3549</b>	<b>0.4729</b>	<b>0.0320</b>	<b>0.3266</b>	<b>0.3586</b>	<b>0.0000</b>	<b>1,364.2356</b>	<b>1,364.2356</b>	<b>0.3706</b>	<b>0.0000</b>	<b>1,373.5011</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	lb/day										lb/day					
2021	0.6926	6.9634	8.0790	0.0139	0.1180	0.3549	0.4729	0.0320	0.3266	0.3586	0.0000	1,364.2356	1,364.2356	0.3706	0.0000	1,373.5011
<b>Maximum</b>	<b>0.6926</b>	<b>6.9634</b>	<b>8.0790</b>	<b>0.0139</b>	<b>0.1180</b>	<b>0.3549</b>	<b>0.4729</b>	<b>0.0320</b>	<b>0.3266</b>	<b>0.3586</b>	<b>0.0000</b>	<b>1,364.2356</b>	<b>1,364.2356</b>	<b>0.3706</b>	<b>0.0000</b>	<b>1,373.5011</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 B\_Paving - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	9.0100e-003	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-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
Mobile	0.1504	0.7912	1.3800	5.6000e-003	0.4148	3.7100e-003	0.4185	0.1112	3.4700e-003	0.1146		568.0496	568.0496	0.0191		568.5275
<b>Total</b>	<b>0.1594</b>	<b>0.7912</b>	<b>1.3804</b>	<b>5.6000e-003</b>	<b>0.4148</b>	<b>3.7100e-003</b>	<b>0.4185</b>	<b>0.1112</b>	<b>3.4700e-003</b>	<b>0.1146</b>		<b>568.0505</b>	<b>568.0505</b>	<b>0.0191</b>	<b>0.0000</b>	<b>568.5284</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	9.0100e-003	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-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
Mobile	0.1504	0.7912	1.3800	5.6000e-003	0.4148	3.7100e-003	0.4185	0.1112	3.4700e-003	0.1146		568.0496	568.0496	0.0191		568.5275
<b>Total</b>	<b>0.1594</b>	<b>0.7912</b>	<b>1.3804</b>	<b>5.6000e-003</b>	<b>0.4148</b>	<b>3.7100e-003</b>	<b>0.4185</b>	<b>0.1112</b>	<b>3.4700e-003</b>	<b>0.1146</b>		<b>568.0505</b>	<b>568.0505</b>	<b>0.0191</b>	<b>0.0000</b>	<b>568.5284</b>

Roseville Dry Creek Trail\_Segment B\_Paving - Placer County APCD Air District, Summer

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Paving	Paving	5/1/2021	5/28/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

#### OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Pavers	1	4.80	9	0.56
Paving	Paving Equipment	2	4.00	132	0.36
Paving	Rollers	2	4.80	80	0.38
Paving	Tractors/Loaders/Backhoes	1	4.80	130	0.42
Paving	Tractors/Loaders/Backhoes	1	4.00	97	0.37

#### Trips and VMT

Roseville Dry Creek Trail\_Segment B\_Paving - Placer County APCD Air District, Summer

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	10.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**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	lb/day										lb/day					
Off-Road	0.6408	6.3888	7.7138	0.0116		0.3530	0.3530		0.3248	0.3248		1,119.9446	1,119.9446	0.3622		1,128.9999
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6408</b>	<b>6.3888</b>	<b>7.7138</b>	<b>0.0116</b>		<b>0.3530</b>	<b>0.3530</b>		<b>0.3248</b>	<b>0.3248</b>		<b>1,119.9446</b>	<b>1,119.9446</b>	<b>0.3622</b>		<b>1,128.9999</b>

Roseville Dry Creek Trail\_Segment B\_Paving - Placer County APCD Air District, Summer

**3.2 Paving - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.7200e-003	0.1243	0.0204	4.1000e-004	8.7500e-003	4.1000e-004	9.1600e-003	2.4000e-003	3.9000e-004	2.7900e-003		42.8228	42.8228	1.3000e-003		42.8553
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0519</b>	<b>0.5746</b>	<b>0.3652</b>	<b>2.3700e-003</b>	<b>0.1180</b>	<b>1.9000e-003</b>	<b>0.1199</b>	<b>0.0320</b>	<b>1.8000e-003</b>	<b>0.0338</b>		<b>244.2910</b>	<b>244.2910</b>	<b>8.4100e-003</b>		<b>244.5013</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6408	6.3888	7.7138	0.0116		0.3530	0.3530		0.3248	0.3248	0.0000	1,119.9446	1,119.9446	0.3622		1,128.9999
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.6408</b>	<b>6.3888</b>	<b>7.7138</b>	<b>0.0116</b>		<b>0.3530</b>	<b>0.3530</b>		<b>0.3248</b>	<b>0.3248</b>	<b>0.0000</b>	<b>1,119.9446</b>	<b>1,119.9446</b>	<b>0.3622</b>		<b>1,128.9999</b>

Roseville Dry Creek Trail\_Segment B\_Paving - Placer County APCD Air District, Summer

**3.2 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.7200e-003	0.1243	0.0204	4.1000e-004	8.7500e-003	4.1000e-004	9.1600e-003	2.4000e-003	3.9000e-004	2.7900e-003		42.8228	42.8228	1.3000e-003		42.8553
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0519</b>	<b>0.5746</b>	<b>0.3652</b>	<b>2.3700e-003</b>	<b>0.1180</b>	<b>1.9000e-003</b>	<b>0.1199</b>	<b>0.0320</b>	<b>1.8000e-003</b>	<b>0.0338</b>		<b>244.2910</b>	<b>244.2910</b>	<b>8.4100e-003</b>		<b>244.5013</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Roseville Dry Creek Trail\_Segment B\_Paving - Placer County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1504	0.7912	1.3800	5.6000e-003	0.4148	3.7100e-003	0.4185	0.1112	3.4700e-003	0.1146		568.0496	568.0496	0.0191		568.5275
Unmitigated	0.1504	0.7912	1.3800	5.6000e-003	0.4148	3.7100e-003	0.4185	0.1112	3.4700e-003	0.1146		568.0496	568.0496	0.0191		568.5275

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

5.0 Energy Detail

Roseville Dry Creek Trail\_Segment B\_Paving - Placer County APCD Air District, Summer

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

Roseville Dry Creek Trail\_Segment B\_Paving - Placer County APCD Air District, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.0100e-003	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004
Unmitigated	9.0100e-003	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004

Roseville Dry Creek Trail\_Segment B\_Paving - Placer County APCD Air District, Summer

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.9800e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004
<b>Total</b>	<b>9.0200e-003</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>8.8000e-004</b>	<b>8.8000e-004</b>	<b>0.0000</b>		<b>9.3000e-004</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	8.9800e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		8.8000e-004	8.8000e-004	0.0000		9.3000e-004
<b>Total</b>	<b>9.0200e-003</b>	<b>0.0000</b>	<b>4.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>8.8000e-004</b>	<b>8.8000e-004</b>	<b>0.0000</b>		<b>9.3000e-004</b>

**7.0 Water Detail**

Roseville Dry Creek Trail\_Segment B\_Paving - Placer County APCD Air District, Summer

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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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\_Planting and Erosion Control - Placer County APCD Air District, Summer

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

**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.

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 B\_Planting and Erosion Control - Placer County APCD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1.00	15.00
tblOffRoadEquipment	HorsePower	402.00	124.00
tblOffRoadEquipment	LoadFactor	0.38	0.44
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
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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Roseville Dry Creek Trail\_Segment B\_Planting and Erosion Control - Placer County APCD Air District, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.2642	2.0644	3.0015	4.7300e-003	0.0833	0.1109	0.1942	0.0221	0.1020	0.1241	0.0000	461.4171	461.4171	0.1238	0.0000	464.5125
<b>Maximum</b>	<b>0.2642</b>	<b>2.0644</b>	<b>3.0015</b>	<b>4.7300e-003</b>	<b>0.0833</b>	<b>0.1109</b>	<b>0.1942</b>	<b>0.0221</b>	<b>0.1020</b>	<b>0.1241</b>	<b>0.0000</b>	<b>461.4171</b>	<b>461.4171</b>	<b>0.1238</b>	<b>0.0000</b>	<b>464.5125</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	lb/day										lb/day					
2021	0.2642	2.0644	3.0015	4.7300e-003	0.0833	0.1109	0.1942	0.0221	0.1020	0.1241	0.0000	461.4171	461.4171	0.1238	0.0000	464.5125
<b>Maximum</b>	<b>0.2642</b>	<b>2.0644</b>	<b>3.0015</b>	<b>4.7300e-003</b>	<b>0.0833</b>	<b>0.1109</b>	<b>0.1942</b>	<b>0.0221</b>	<b>0.1020</b>	<b>0.1241</b>	<b>0.0000</b>	<b>461.4171</b>	<b>461.4171</b>	<b>0.1238</b>	<b>0.0000</b>	<b>464.5125</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 B\_Planting and Erosion Control - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
<b>Total</b>	<b>9.9600e-003</b>	<b>0.0495</b>	<b>0.0863</b>	<b>3.5000e-004</b>	<b>0.0259</b>	<b>2.3000e-004</b>	<b>0.0262</b>	<b>6.9500e-003</b>	<b>2.2000e-004</b>	<b>7.1600e-003</b>		<b>35.5032</b>	<b>35.5032</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>35.5330</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
<b>Total</b>	<b>9.9600e-003</b>	<b>0.0495</b>	<b>0.0863</b>	<b>3.5000e-004</b>	<b>0.0259</b>	<b>2.3000e-004</b>	<b>0.0262</b>	<b>6.9500e-003</b>	<b>2.2000e-004</b>	<b>7.1600e-003</b>		<b>35.5032</b>	<b>35.5032</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>35.5330</b>

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

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

### 3.0 Construction Detail

#### Construction Phase

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

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; 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	124	0.44
Site Preparation	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37

#### Trips and VMT

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

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

**3.1 Mitigation Measures Construction**

**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	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2276	2.0287	2.7294	3.8900e-003		0.1103	0.1103		0.1015	0.1015		376.7238	376.7238	0.1218		379.7698
<b>Total</b>	<b>0.2276</b>	<b>2.0287</b>	<b>2.7294</b>	<b>3.8900e-003</b>	<b>0.0000</b>	<b>0.1103</b>	<b>0.1103</b>	<b>0.0000</b>	<b>0.1015</b>	<b>0.1015</b>		<b>376.7238</b>	<b>376.7238</b>	<b>0.1218</b>		<b>379.7698</b>

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

**3.2 Site Preparation - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.0000e-004	0.0166	2.7200e-003	5.0000e-005	1.1700e-003	5.0000e-005	1.2200e-003	3.2000e-004	5.0000e-005	3.7000e-004		5.7097	5.7097	1.7000e-004		5.7140
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0366</b>	<b>0.0357</b>	<b>0.2721</b>	<b>8.4000e-004</b>	<b>0.0833</b>	<b>5.6000e-004</b>	<b>0.0839</b>	<b>0.0221</b>	<b>5.2000e-004</b>	<b>0.0226</b>		<b>84.6933</b>	<b>84.6933</b>	<b>1.9700e-003</b>		<b>84.7427</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.2276	2.0287	2.7294	3.8900e-003		0.1103	0.1103		0.1015	0.1015	0.0000	376.7238	376.7238	0.1218		379.7698
<b>Total</b>	<b>0.2276</b>	<b>2.0287</b>	<b>2.7294</b>	<b>3.8900e-003</b>	<b>0.0000</b>	<b>0.1103</b>	<b>0.1103</b>	<b>0.0000</b>	<b>0.1015</b>	<b>0.1015</b>	<b>0.0000</b>	<b>376.7238</b>	<b>376.7238</b>	<b>0.1218</b>		<b>379.7698</b>

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

**3.2 Site Preparation - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.0000e-004	0.0166	2.7200e-003	5.0000e-005	1.1700e-003	5.0000e-005	1.2200e-003	3.2000e-004	5.0000e-005	3.7000e-004		5.7097	5.7097	1.7000e-004		5.7140
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0366</b>	<b>0.0357</b>	<b>0.2721</b>	<b>8.4000e-004</b>	<b>0.0833</b>	<b>5.6000e-004</b>	<b>0.0839</b>	<b>0.0221</b>	<b>5.2000e-004</b>	<b>0.0226</b>		<b>84.6933</b>	<b>84.6933</b>	<b>1.9700e-003</b>		<b>84.7427</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
Unmitigated	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330

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

5.0 Energy Detail

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

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

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

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
Unmitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**7.0 Water Detail**

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

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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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\_Retaining Walls Undercrossings - Placer County APCD Air District, Summer

**Roseville Dry Creek Trail\_Segment B\_Retaining Walls Undercrossings**  
**Placer County APCD Air District, Summer**

**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, August 2014.

Off-road Equipment - Per Table 2: Construction Phases and Equipment - Segment B, provided by Psomas, August 2014.

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, August4 2014.

## Roseville Dry Creek Trail\_Segment B\_Retaining Walls Undercrossings - Placer County APCD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	20.00
tblOffRoadEquipment	HorsePower	158.00	231.00
tblOffRoadEquipment	HorsePower	8.00	97.00
tblOffRoadEquipment	HorsePower	80.00	89.00
tblOffRoadEquipment	LoadFactor	0.38	0.29
tblOffRoadEquipment	LoadFactor	0.43	0.37
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	4.00
tblProjectCharacteristics	OperationalYear	2018	2023
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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Roseville Dry Creek Trail\_Segment B\_Retaining Walls Undercrossings - Placer County APCD Air District, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.4862	4.9344	5.2227	0.0113	0.1110	0.2186	0.3296	0.0301	0.2011	0.2312	0.0000	1,108.0385	1,108.0385	0.2978	0.0000	1,115.4836
<b>Maximum</b>	<b>0.4862</b>	<b>4.9344</b>	<b>5.2227</b>	<b>0.0113</b>	<b>0.1110</b>	<b>0.2186</b>	<b>0.3296</b>	<b>0.0301</b>	<b>0.2011</b>	<b>0.2312</b>	<b>0.0000</b>	<b>1,108.0385</b>	<b>1,108.0385</b>	<b>0.2978</b>	<b>0.0000</b>	<b>1,115.4836</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	lb/day										lb/day					
2021	0.4862	4.9344	5.2227	0.0113	0.1110	0.2186	0.3296	0.0301	0.2011	0.2312	0.0000	1,108.0385	1,108.0385	0.2978	0.0000	1,115.4836
<b>Maximum</b>	<b>0.4862</b>	<b>4.9344</b>	<b>5.2227</b>	<b>0.0113</b>	<b>0.1110</b>	<b>0.2186</b>	<b>0.3296</b>	<b>0.0301</b>	<b>0.2011</b>	<b>0.2312</b>	<b>0.0000</b>	<b>1,108.0385</b>	<b>1,108.0385</b>	<b>0.2978</b>	<b>0.0000</b>	<b>1,115.4836</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 B\_Retaining Walls Undercrossings - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
<b>Total</b>	<b>9.9600e-003</b>	<b>0.0495</b>	<b>0.0863</b>	<b>3.5000e-004</b>	<b>0.0259</b>	<b>2.3000e-004</b>	<b>0.0262</b>	<b>6.9500e-003</b>	<b>2.2000e-004</b>	<b>7.1600e-003</b>		<b>35.5032</b>	<b>35.5032</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>35.5330</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
<b>Total</b>	<b>9.9600e-003</b>	<b>0.0495</b>	<b>0.0863</b>	<b>3.5000e-004</b>	<b>0.0259</b>	<b>2.3000e-004</b>	<b>0.0262</b>	<b>6.9500e-003</b>	<b>2.2000e-004</b>	<b>7.1600e-003</b>		<b>35.5032</b>	<b>35.5032</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>35.5330</b>

Roseville Dry Creek Trail\_Segment B\_Retaining Walls Undercrossings - Placer County APCD Air District, Summer

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Building Construction	Building Construction	5/1/2021	5/28/2021	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; 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	4.00	231	0.29
Building Construction	Forklifts	0	6.00	89	0.20
Building Construction	Paving Equipment	2	4.00	132	0.36
Building Construction	Plate Compactors	2	2.00	97	0.37
Building Construction	Rollers	1	4.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	1	4.00	97	0.37

#### Trips and VMT

Roseville Dry Creek Trail\_Segment B\_Retaining Walls Undercrossings - Placer County APCD Air District, Summer

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	2.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4373	4.4592	4.8738	9.2800e-003		0.2170	0.2170		0.1997	0.1997		898.0057	898.0057	0.2904		905.2665
<b>Total</b>	<b>0.4373</b>	<b>4.4592</b>	<b>4.8738</b>	<b>9.2800e-003</b>		<b>0.2170</b>	<b>0.2170</b>		<b>0.1997</b>	<b>0.1997</b>		<b>898.0057</b>	<b>898.0057</b>	<b>0.2904</b>		<b>905.2665</b>

Roseville Dry Creek Trail\_Segment B\_Retaining Walls Undercrossings - Placer County APCD Air District, Summer

**3.2 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.4000e-004	0.0249	4.0800e-003	8.0000e-005	1.7500e-003	8.0000e-005	1.8300e-003	4.8000e-004	8.0000e-005	5.6000e-004		8.5646	8.5646	2.6000e-004		8.5711
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0489</b>	<b>0.4752</b>	<b>0.3489</b>	<b>2.0400e-003</b>	<b>0.1110</b>	<b>1.5700e-003</b>	<b>0.1126</b>	<b>0.0301</b>	<b>1.4900e-003</b>	<b>0.0316</b>		<b>210.0328</b>	<b>210.0328</b>	<b>7.3700e-003</b>		<b>210.2170</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4373	4.4592	4.8738	9.2800e-003		0.2170	0.2170		0.1997	0.1997	0.0000	898.0057	898.0057	0.2904		905.2665
<b>Total</b>	<b>0.4373</b>	<b>4.4592</b>	<b>4.8738</b>	<b>9.2800e-003</b>		<b>0.2170</b>	<b>0.2170</b>		<b>0.1997</b>	<b>0.1997</b>	<b>0.0000</b>	<b>898.0057</b>	<b>898.0057</b>	<b>0.2904</b>		<b>905.2665</b>

Roseville Dry Creek Trail\_Segment B\_Retaining Walls Undercrossings - Placer County APCD Air District, Summer

**3.2 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	7.4000e-004	0.0249	4.0800e-003	8.0000e-005	1.7500e-003	8.0000e-005	1.8300e-003	4.8000e-004	8.0000e-005	5.6000e-004		8.5646	8.5646	2.6000e-004		8.5711
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0489</b>	<b>0.4752</b>	<b>0.3489</b>	<b>2.0400e-003</b>	<b>0.1110</b>	<b>1.5700e-003</b>	<b>0.1126</b>	<b>0.0301</b>	<b>1.4900e-003</b>	<b>0.0316</b>		<b>210.0328</b>	<b>210.0328</b>	<b>7.3700e-003</b>		<b>210.2170</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Roseville Dry Creek Trail\_Segment B\_Retaining Walls Undercrossings - Placer County APCD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
Unmitigated	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330

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

5.0 Energy Detail

Roseville Dry Creek Trail\_Segment B\_Retaining Walls Undercrossings - Placer County APCD Air District, Summer

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

Roseville Dry Creek Trail\_Segment B\_Retaining Walls Undercrossings - Placer County APCD Air District, Summer

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
Unmitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005

Roseville Dry Creek Trail\_Segment B\_Retaining Walls Undercrossings - Placer County APCD Air District, Summer

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**7.0 Water Detail**

Roseville Dry Creek Trail\_Segment B\_Retaining Walls Undercrossings - Placer County APCD Air District, Summer

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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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\_Clearing and Grading - Placer County APCD Air District, Summer

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

**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, Summer

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, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	1.7721	18.2237	15.7563	0.0370	0.6430	0.7720	1.4150	0.0878	0.7103	0.7981	0.0000	3,598.1019	3,598.1019	1.1015	0.0000	3,625.6381
<b>Maximum</b>	<b>1.7721</b>	<b>18.2237</b>	<b>15.7563</b>	<b>0.0370</b>	<b>0.6430</b>	<b>0.7720</b>	<b>1.4150</b>	<b>0.0878</b>	<b>0.7103</b>	<b>0.7981</b>	<b>0.0000</b>	<b>3,598.1019</b>	<b>3,598.1019</b>	<b>1.1015</b>	<b>0.0000</b>	<b>3,625.6381</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	lb/day										lb/day					
2022	1.7721	18.2237	15.7563	0.0370	0.6430	0.7720	1.4150	0.0878	0.7103	0.7981	0.0000	3,598.1019	3,598.1019	1.1015	0.0000	3,625.6381
<b>Maximum</b>	<b>1.7721</b>	<b>18.2237</b>	<b>15.7563</b>	<b>0.0370</b>	<b>0.6430</b>	<b>0.7720</b>	<b>1.4150</b>	<b>0.0878</b>	<b>0.7103</b>	<b>0.7981</b>	<b>0.0000</b>	<b>3,598.1019</b>	<b>3,598.1019</b>	<b>1.1015</b>	<b>0.0000</b>	<b>3,625.6381</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\_Clearing and Grading - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0113	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.1880	0.9890	1.7249	7.0000e-003	0.5185	4.6400e-003	0.5231	0.1390	4.3400e-003	0.1433		710.0620	710.0620	0.0239		710.6593
<b>Total</b>	<b>0.1992</b>	<b>0.9890</b>	<b>1.7255</b>	<b>7.0000e-003</b>	<b>0.5185</b>	<b>4.6400e-003</b>	<b>0.5231</b>	<b>0.1390</b>	<b>4.3400e-003</b>	<b>0.1433</b>		<b>710.0631</b>	<b>710.0631</b>	<b>0.0239</b>	<b>0.0000</b>	<b>710.6605</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0113	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.1880	0.9890	1.7249	7.0000e-003	0.5185	4.6400e-003	0.5231	0.1390	4.3400e-003	0.1433		710.0620	710.0620	0.0239		710.6593
<b>Total</b>	<b>0.1992</b>	<b>0.9890</b>	<b>1.7255</b>	<b>7.0000e-003</b>	<b>0.5185</b>	<b>4.6400e-003</b>	<b>0.5231</b>	<b>0.1390</b>	<b>4.3400e-003</b>	<b>0.1433</b>		<b>710.0631</b>	<b>710.0631</b>	<b>0.0239</b>	<b>0.0000</b>	<b>710.6605</b>

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

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

### 3.0 Construction Detail

#### Construction Phase

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

Acres of Grading (Site Preparation Phase): 0

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

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

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**

**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	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.7257	17.7514	15.4294	0.0350		0.7706	0.7706		0.7089	0.7089		3,383.5852	3,383.5852	1.0943		3,410.9432
<b>Total</b>	<b>1.7257</b>	<b>17.7514</b>	<b>15.4294</b>	<b>0.0350</b>	<b>0.5303</b>	<b>0.7706</b>	<b>1.3008</b>	<b>0.0573</b>	<b>0.7089</b>	<b>0.7662</b>		<b>3,383.5852</b>	<b>3,383.5852</b>	<b>1.0943</b>		<b>3,410.9432</b>

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

**3.2 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.3900e-003	0.0455	7.8300e-003	1.6000e-004	3.5000e-003	1.4000e-004	3.6400e-003	9.6000e-004	1.3000e-004	1.0900e-003		16.9356	16.9356	4.9000e-004		16.9479
Vendor	0.0112	0.4095	0.0701	1.1600e-003	0.0271	8.4000e-004	0.0279	7.8000e-003	8.0000e-004	8.6000e-003		121.4942	121.4942	5.0200e-003		121.6196
Worker	0.0338	0.0172	0.2490	7.6000e-004	0.0822	5.0000e-004	0.0826	0.0218	4.6000e-004	0.0223		76.0869	76.0869	1.6200e-003		76.1274
<b>Total</b>	<b>0.0464</b>	<b>0.4723</b>	<b>0.3270</b>	<b>2.0800e-003</b>	<b>0.1127</b>	<b>1.4800e-003</b>	<b>0.1142</b>	<b>0.0306</b>	<b>1.3900e-003</b>	<b>0.0319</b>		<b>214.5167</b>	<b>214.5167</b>	<b>7.1300e-003</b>		<b>214.6949</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	1.7257	17.7514	15.4294	0.0350		0.7706	0.7706		0.7089	0.7089	0.0000	3,383.5852	3,383.5852	1.0943		3,410.9432
<b>Total</b>	<b>1.7257</b>	<b>17.7514</b>	<b>15.4294</b>	<b>0.0350</b>	<b>0.5303</b>	<b>0.7706</b>	<b>1.3008</b>	<b>0.0573</b>	<b>0.7089</b>	<b>0.7662</b>	<b>0.0000</b>	<b>3,383.5852</b>	<b>3,383.5852</b>	<b>1.0943</b>		<b>3,410.9432</b>

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

**3.2 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.3900e-003	0.0455	7.8300e-003	1.6000e-004	3.5000e-003	1.4000e-004	3.6400e-003	9.6000e-004	1.3000e-004	1.0900e-003		16.9356	16.9356	4.9000e-004		16.9479
Vendor	0.0112	0.4095	0.0701	1.1600e-003	0.0271	8.4000e-004	0.0279	7.8000e-003	8.0000e-004	8.6000e-003		121.4942	121.4942	5.0200e-003		121.6196
Worker	0.0338	0.0172	0.2490	7.6000e-004	0.0822	5.0000e-004	0.0826	0.0218	4.6000e-004	0.0223		76.0869	76.0869	1.6200e-003		76.1274
<b>Total</b>	<b>0.0464</b>	<b>0.4723</b>	<b>0.3270</b>	<b>2.0800e-003</b>	<b>0.1127</b>	<b>1.4800e-003</b>	<b>0.1142</b>	<b>0.0306</b>	<b>1.3900e-003</b>	<b>0.0319</b>		<b>214.5167</b>	<b>214.5167</b>	<b>7.1300e-003</b>		<b>214.6949</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1880	0.9890	1.7249	7.0000e-003	0.5185	4.6400e-003	0.5231	0.1390	4.3400e-003	0.1433		710.0620	710.0620	0.0239		710.6593
Unmitigated	0.1880	0.9890	1.7249	7.0000e-003	0.5185	4.6400e-003	0.5231	0.1390	4.3400e-003	0.1433		710.0620	710.0620	0.0239		710.6593

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

5.0 Energy Detail

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

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

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

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0113	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Unmitigated	0.0113	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0112					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
<b>Total</b>	<b>0.0113</b>	<b>0.0000</b>	<b>5.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.0900e-003</b>	<b>1.0900e-003</b>	<b>0.0000</b>		<b>1.1700e-003</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0112					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
<b>Total</b>	<b>0.0113</b>	<b>0.0000</b>	<b>5.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.0900e-003</b>	<b>1.0900e-003</b>	<b>0.0000</b>		<b>1.1700e-003</b>

**7.0 Water Detail**

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

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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

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

**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, Summer

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, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	0.2621	2.2585	2.0407	7.4400e-003	0.1092	0.0732	0.1824	0.0296	0.0674	0.0970	0.0000	732.0665	732.0665	0.1795	0.0000	736.5540
<b>Maximum</b>	<b>0.2621</b>	<b>2.2585</b>	<b>2.0407</b>	<b>7.4400e-003</b>	<b>0.1092</b>	<b>0.0732</b>	<b>0.1824</b>	<b>0.0296</b>	<b>0.0674</b>	<b>0.0970</b>	<b>0.0000</b>	<b>732.0665</b>	<b>732.0665</b>	<b>0.1795</b>	<b>0.0000</b>	<b>736.5540</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	lb/day										lb/day					
2022	0.2621	2.2585	2.0407	7.4400e-003	0.1092	0.0732	0.1824	0.0296	0.0674	0.0970	0.0000	732.0665	732.0665	0.1795	0.0000	736.5540
<b>Maximum</b>	<b>0.2621</b>	<b>2.2585</b>	<b>2.0407</b>	<b>7.4400e-003</b>	<b>0.1092</b>	<b>0.0732</b>	<b>0.1824</b>	<b>0.0296</b>	<b>0.0674</b>	<b>0.0970</b>	<b>0.0000</b>	<b>732.0665</b>	<b>732.0665</b>	<b>0.1795</b>	<b>0.0000</b>	<b>736.5540</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, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
<b>Total</b>	<b>9.9600e-003</b>	<b>0.0495</b>	<b>0.0863</b>	<b>3.5000e-004</b>	<b>0.0259</b>	<b>2.3000e-004</b>	<b>0.0262</b>	<b>6.9500e-003</b>	<b>2.2000e-004</b>	<b>7.1600e-003</b>		<b>35.5032</b>	<b>35.5032</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>35.5330</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
<b>Total</b>	<b>9.9600e-003</b>	<b>0.0495</b>	<b>0.0863</b>	<b>3.5000e-004</b>	<b>0.0259</b>	<b>2.3000e-004</b>	<b>0.0262</b>	<b>6.9500e-003</b>	<b>2.2000e-004</b>	<b>7.1600e-003</b>		<b>35.5032</b>	<b>35.5032</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>35.5330</b>

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

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

### 3.0 Construction Detail

#### Construction Phase

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

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; 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

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

**3.1 Mitigation Measures Construction**

**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	lb/day										lb/day					
Off-Road	0.2171	1.8318	1.7216	5.5200e-003		0.0719	0.0719		0.0661	0.0661		534.4854	534.4854	0.1729		538.8070
<b>Total</b>	<b>0.2171</b>	<b>1.8318</b>	<b>1.7216</b>	<b>5.5200e-003</b>		<b>0.0719</b>	<b>0.0719</b>		<b>0.0661</b>	<b>0.0661</b>		<b>534.4854</b>	<b>534.4854</b>	<b>0.1729</b>		<b>538.8070</b>

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

**3.2 Building Construction - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0112	0.4095	0.0701	1.1600e-003	0.0271	8.4000e-004	0.0279	7.8000e-003	8.0000e-004	8.6000e-003		121.4942	121.4942	5.0200e-003		121.6196
Worker	0.0338	0.0172	0.2490	7.6000e-004	0.0822	5.0000e-004	0.0826	0.0218	4.6000e-004	0.0223		76.0869	76.0869	1.6200e-003		76.1274
<b>Total</b>	<b>0.0450</b>	<b>0.4268</b>	<b>0.3191</b>	<b>1.9200e-003</b>	<b>0.1092</b>	<b>1.3400e-003</b>	<b>0.1106</b>	<b>0.0296</b>	<b>1.2600e-003</b>	<b>0.0309</b>		<b>197.5811</b>	<b>197.5811</b>	<b>6.6400e-003</b>		<b>197.7470</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.2171	1.8318	1.7216	5.5200e-003		0.0719	0.0719		0.0661	0.0661	0.0000	534.4854	534.4854	0.1729		538.8070
<b>Total</b>	<b>0.2171</b>	<b>1.8318</b>	<b>1.7216</b>	<b>5.5200e-003</b>		<b>0.0719</b>	<b>0.0719</b>		<b>0.0661</b>	<b>0.0661</b>	<b>0.0000</b>	<b>534.4854</b>	<b>534.4854</b>	<b>0.1729</b>		<b>538.8070</b>

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

**3.2 Building Construction - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0112	0.4095	0.0701	1.1600e-003	0.0271	8.4000e-004	0.0279	7.8000e-003	8.0000e-004	8.6000e-003		121.4942	121.4942	5.0200e-003		121.6196
Worker	0.0338	0.0172	0.2490	7.6000e-004	0.0822	5.0000e-004	0.0826	0.0218	4.6000e-004	0.0223		76.0869	76.0869	1.6200e-003		76.1274
<b>Total</b>	<b>0.0450</b>	<b>0.4268</b>	<b>0.3191</b>	<b>1.9200e-003</b>	<b>0.1092</b>	<b>1.3400e-003</b>	<b>0.1106</b>	<b>0.0296</b>	<b>1.2600e-003</b>	<b>0.0309</b>		<b>197.5811</b>	<b>197.5811</b>	<b>6.6400e-003</b>		<b>197.7470</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
Unmitigated	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330

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

5.0 Energy Detail

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

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

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

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
Unmitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**7.0 Water Detail**

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

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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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\_Finish Grading - Placer County APCD Air District, Summer

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

**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\_Finish Grading - Placer County APCD Air District, Summer

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, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	1.7817	19.2064	13.5959	0.0353	6.6014	0.7767	7.3782	3.4100	0.7148	4.1247	0.0000	3,469.3259	3,469.3259	0.8986	0.0000	3,491.7916
<b>Maximum</b>	<b>1.7817</b>	<b>19.2064</b>	<b>13.5959</b>	<b>0.0353</b>	<b>6.6014</b>	<b>0.7767</b>	<b>7.3782</b>	<b>3.4100</b>	<b>0.7148</b>	<b>4.1247</b>	<b>0.0000</b>	<b>3,469.3259</b>	<b>3,469.3259</b>	<b>0.8986</b>	<b>0.0000</b>	<b>3,491.7916</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	lb/day										lb/day					
2022	1.7817	19.2064	13.5959	0.0353	6.6014	0.7767	7.3782	3.4100	0.7148	4.1247	0.0000	3,469.3259	3,469.3259	0.8986	0.0000	3,491.7916
<b>Maximum</b>	<b>1.7817</b>	<b>19.2064</b>	<b>13.5959</b>	<b>0.0353</b>	<b>6.6014</b>	<b>0.7767</b>	<b>7.3782</b>	<b>3.4100</b>	<b>0.7148</b>	<b>4.1247</b>	<b>0.0000</b>	<b>3,469.3259</b>	<b>3,469.3259</b>	<b>0.8986</b>	<b>0.0000</b>	<b>3,491.7916</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\_Finish Grading - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0113	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.1880	0.9890	1.7249	7.0000e-003	0.5185	4.6400e-003	0.5231	0.1390	4.3400e-003	0.1433		710.0620	710.0620	0.0239		710.6593
<b>Total</b>	<b>0.1992</b>	<b>0.9890</b>	<b>1.7255</b>	<b>7.0000e-003</b>	<b>0.5185</b>	<b>4.6400e-003</b>	<b>0.5231</b>	<b>0.1390</b>	<b>4.3400e-003</b>	<b>0.1433</b>		<b>710.0631</b>	<b>710.0631</b>	<b>0.0239</b>	<b>0.0000</b>	<b>710.6605</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0113	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.1880	0.9890	1.7249	7.0000e-003	0.5185	4.6400e-003	0.5231	0.1390	4.3400e-003	0.1433		710.0620	710.0620	0.0239		710.6593
<b>Total</b>	<b>0.1992</b>	<b>0.9890</b>	<b>1.7255</b>	<b>7.0000e-003</b>	<b>0.5185</b>	<b>4.6400e-003</b>	<b>0.5231</b>	<b>0.1390</b>	<b>4.3400e-003</b>	<b>0.1433</b>		<b>710.0631</b>	<b>710.0631</b>	<b>0.0239</b>	<b>0.0000</b>	<b>710.6605</b>

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

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

### 3.0 Construction Detail

#### Construction Phase

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

Acres of Grading (Site Preparation Phase): 0

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

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

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**

**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	lb/day										lb/day					
Fugitive Dust					6.3756	0.0000	6.3756	3.3484	0.0000	3.3484			0.0000			0.0000
Off-Road	1.6903	17.2620	13.0159	0.0280		0.7708	0.7708		0.7091	0.7091		2,707.2263	2,707.2263	0.8756		2,729.1156
<b>Total</b>	<b>1.6903</b>	<b>17.2620</b>	<b>13.0159</b>	<b>0.0280</b>	<b>6.3756</b>	<b>0.7708</b>	<b>7.1464</b>	<b>3.3484</b>	<b>0.7091</b>	<b>4.0575</b>		<b>2,707.2263</b>	<b>2,707.2263</b>	<b>0.8756</b>		<b>2,729.1156</b>

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

**3.2 Grading - 2022**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0464	1.5177	0.2609	5.3900e-003	0.1166	4.6200e-003	0.1212	0.0320	4.4200e-003	0.0364		564.5185	564.5185	0.0164		564.9290
Vendor	0.0112	0.4095	0.0701	1.1600e-003	0.0271	8.4000e-004	0.0279	7.8000e-003	8.0000e-004	8.6000e-003		121.4942	121.4942	5.0200e-003		121.6196
Worker	0.0338	0.0172	0.2490	7.6000e-004	0.0822	5.0000e-004	0.0826	0.0218	4.6000e-004	0.0223		76.0869	76.0869	1.6200e-003		76.1274
<b>Total</b>	<b>0.0914</b>	<b>1.9445</b>	<b>0.5800</b>	<b>7.3100e-003</b>	<b>0.2259</b>	<b>5.9600e-003</b>	<b>0.2318</b>	<b>0.0616</b>	<b>5.6800e-003</b>	<b>0.0672</b>		<b>762.0996</b>	<b>762.0996</b>	<b>0.0231</b>		<b>762.6760</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3756	0.0000	6.3756	3.3484	0.0000	3.3484			0.0000			0.0000
Off-Road	1.6903	17.2620	13.0159	0.0280		0.7708	0.7708		0.7091	0.7091	0.0000	2,707.2263	2,707.2263	0.8756		2,729.1156
<b>Total</b>	<b>1.6903</b>	<b>17.2620</b>	<b>13.0159</b>	<b>0.0280</b>	<b>6.3756</b>	<b>0.7708</b>	<b>7.1464</b>	<b>3.3484</b>	<b>0.7091</b>	<b>4.0575</b>	<b>0.0000</b>	<b>2,707.2263</b>	<b>2,707.2263</b>	<b>0.8756</b>		<b>2,729.1156</b>

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

**3.2 Grading - 2022**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0464	1.5177	0.2609	5.3900e-003	0.1166	4.6200e-003	0.1212	0.0320	4.4200e-003	0.0364		564.5185	564.5185	0.0164		564.9290
Vendor	0.0112	0.4095	0.0701	1.1600e-003	0.0271	8.4000e-004	0.0279	7.8000e-003	8.0000e-004	8.6000e-003		121.4942	121.4942	5.0200e-003		121.6196
Worker	0.0338	0.0172	0.2490	7.6000e-004	0.0822	5.0000e-004	0.0826	0.0218	4.6000e-004	0.0223		76.0869	76.0869	1.6200e-003		76.1274
<b>Total</b>	<b>0.0914</b>	<b>1.9445</b>	<b>0.5800</b>	<b>7.3100e-003</b>	<b>0.2259</b>	<b>5.9600e-003</b>	<b>0.2318</b>	<b>0.0616</b>	<b>5.6800e-003</b>	<b>0.0672</b>		<b>762.0996</b>	<b>762.0996</b>	<b>0.0231</b>		<b>762.6760</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1880	0.9890	1.7249	7.0000e-003	0.5185	4.6400e-003	0.5231	0.1390	4.3400e-003	0.1433		710.0620	710.0620	0.0239		710.6593
Unmitigated	0.1880	0.9890	1.7249	7.0000e-003	0.5185	4.6400e-003	0.5231	0.1390	4.3400e-003	0.1433		710.0620	710.0620	0.0239		710.6593

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

5.0 Energy Detail

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

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

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

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0113	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Unmitigated	0.0113	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0112					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
<b>Total</b>	<b>0.0113</b>	<b>0.0000</b>	<b>5.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.0900e-003</b>	<b>1.0900e-003</b>	<b>0.0000</b>		<b>1.1700e-003</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0112					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
<b>Total</b>	<b>0.0113</b>	<b>0.0000</b>	<b>5.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.0900e-003</b>	<b>1.0900e-003</b>	<b>0.0000</b>		<b>1.1700e-003</b>

**7.0 Water Detail**

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

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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

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

**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, Summer

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, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.8294	8.3422	9.8503	0.0170	0.1180	0.4132	0.5311	0.0320	0.3802	0.4121	0.0000	1,661.9370	1,661.9370	0.4669	0.0000	1,673.6096
<b>Maximum</b>	<b>0.8294</b>	<b>8.3422</b>	<b>9.8503</b>	<b>0.0170</b>	<b>0.1180</b>	<b>0.4132</b>	<b>0.5311</b>	<b>0.0320</b>	<b>0.3802</b>	<b>0.4121</b>	<b>0.0000</b>	<b>1,661.9370</b>	<b>1,661.9370</b>	<b>0.4669</b>	<b>0.0000</b>	<b>1,673.6096</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	lb/day										lb/day					
2021	0.8294	8.3422	9.8503	0.0170	0.1180	0.4132	0.5311	0.0320	0.3802	0.4121	0.0000	1,661.9370	1,661.9370	0.4669	0.0000	1,673.6096
<b>Maximum</b>	<b>0.8294</b>	<b>8.3422</b>	<b>9.8503</b>	<b>0.0170</b>	<b>0.1180</b>	<b>0.4132</b>	<b>0.5311</b>	<b>0.0320</b>	<b>0.3802</b>	<b>0.4121</b>	<b>0.0000</b>	<b>1,661.9370</b>	<b>1,661.9370</b>	<b>0.4669</b>	<b>0.0000</b>	<b>1,673.6096</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\_Paving - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0113	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.1880	0.9890	1.7249	7.0000e-003	0.5185	4.6400e-003	0.5231	0.1390	4.3400e-003	0.1433		710.0620	710.0620	0.0239		710.6593
<b>Total</b>	<b>0.1992</b>	<b>0.9890</b>	<b>1.7255</b>	<b>7.0000e-003</b>	<b>0.5185</b>	<b>4.6400e-003</b>	<b>0.5231</b>	<b>0.1390</b>	<b>4.3400e-003</b>	<b>0.1433</b>		<b>710.0631</b>	<b>710.0631</b>	<b>0.0239</b>	<b>0.0000</b>	<b>710.6605</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0113	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.1880	0.9890	1.7249	7.0000e-003	0.5185	4.6400e-003	0.5231	0.1390	4.3400e-003	0.1433		710.0620	710.0620	0.0239		710.6593
<b>Total</b>	<b>0.1992</b>	<b>0.9890</b>	<b>1.7255</b>	<b>7.0000e-003</b>	<b>0.5185</b>	<b>4.6400e-003</b>	<b>0.5231</b>	<b>0.1390</b>	<b>4.3400e-003</b>	<b>0.1433</b>		<b>710.0631</b>	<b>710.0631</b>	<b>0.0239</b>	<b>0.0000</b>	<b>710.6605</b>

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

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Paving	Paving	9/1/2021	10/12/2021	5	30	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; 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

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

**3.1 Mitigation Measures Construction**

**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	lb/day										lb/day					
Off-Road	0.7776	7.7676	9.4851	0.0146		0.4113	0.4113		0.3784	0.3784		1,417.6459	1,417.6459	0.4585		1,429.1083
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7776</b>	<b>7.7676</b>	<b>9.4851</b>	<b>0.0146</b>		<b>0.4113</b>	<b>0.4113</b>		<b>0.3784</b>	<b>0.3784</b>		<b>1,417.6459</b>	<b>1,417.6459</b>	<b>0.4585</b>		<b>1,429.1083</b>

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

**3.2 Paving - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.7200e-003	0.1243	0.0204	4.1000e-004	8.7500e-003	4.1000e-004	9.1600e-003	2.4000e-003	3.9000e-004	2.7900e-003		42.8228	42.8228	1.3000e-003		42.8553
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0519</b>	<b>0.5746</b>	<b>0.3652</b>	<b>2.3700e-003</b>	<b>0.1180</b>	<b>1.9000e-003</b>	<b>0.1199</b>	<b>0.0320</b>	<b>1.8000e-003</b>	<b>0.0338</b>		<b>244.2910</b>	<b>244.2910</b>	<b>8.4100e-003</b>		<b>244.5013</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7776	7.7676	9.4851	0.0146		0.4113	0.4113		0.3784	0.3784	0.0000	1,417.6459	1,417.6459	0.4585		1,429.1083
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.7776</b>	<b>7.7676</b>	<b>9.4851</b>	<b>0.0146</b>		<b>0.4113</b>	<b>0.4113</b>		<b>0.3784</b>	<b>0.3784</b>	<b>0.0000</b>	<b>1,417.6459</b>	<b>1,417.6459</b>	<b>0.4585</b>		<b>1,429.1083</b>

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

**3.2 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.7200e-003	0.1243	0.0204	4.1000e-004	8.7500e-003	4.1000e-004	9.1600e-003	2.4000e-003	3.9000e-004	2.7900e-003		42.8228	42.8228	1.3000e-003		42.8553
Vendor	0.0120	0.4312	0.0755	1.1700e-003	0.0271	9.8000e-004	0.0281	7.8000e-003	9.4000e-004	8.7400e-003		122.4846	122.4846	5.3100e-003		122.6173
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0519</b>	<b>0.5746</b>	<b>0.3652</b>	<b>2.3700e-003</b>	<b>0.1180</b>	<b>1.9000e-003</b>	<b>0.1199</b>	<b>0.0320</b>	<b>1.8000e-003</b>	<b>0.0338</b>		<b>244.2910</b>	<b>244.2910</b>	<b>8.4100e-003</b>		<b>244.5013</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1880	0.9890	1.7249	7.0000e-003	0.5185	4.6400e-003	0.5231	0.1390	4.3400e-003	0.1433		710.0620	710.0620	0.0239		710.6593
Unmitigated	0.1880	0.9890	1.7249	7.0000e-003	0.5185	4.6400e-003	0.5231	0.1390	4.3400e-003	0.1433		710.0620	710.0620	0.0239		710.6593

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

5.0 Energy Detail

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

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

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

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	lb/day										lb/day						
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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0113	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
Unmitigated	0.0113	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0112					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
<b>Total</b>	<b>0.0113</b>	<b>0.0000</b>	<b>5.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.0900e-003</b>	<b>1.0900e-003</b>	<b>0.0000</b>		<b>1.1700e-003</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0112					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.0900e-003	1.0900e-003	0.0000		1.1700e-003
<b>Total</b>	<b>0.0113</b>	<b>0.0000</b>	<b>5.1000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.0900e-003</b>	<b>1.0900e-003</b>	<b>0.0000</b>		<b>1.1700e-003</b>

**7.0 Water Detail**

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

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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

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

**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

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

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	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	UsageHours	8.00	4.00
tblProjectCharacteristics	OperationalYear	2018	2023
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 C\_Planting and Erosion Control - Placer County APCD Air District, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.2989	2.4093	2.3139	5.6800e-003	0.6136	0.1120	0.7255	0.0794	0.1030	0.1824	0.0000	553.0474	553.0474	0.1535	0.0000	556.8836
<b>Maximum</b>	<b>0.2989</b>	<b>2.4093</b>	<b>2.3139</b>	<b>5.6800e-003</b>	<b>0.6136</b>	<b>0.1120</b>	<b>0.7255</b>	<b>0.0794</b>	<b>0.1030</b>	<b>0.1824</b>	<b>0.0000</b>	<b>553.0474</b>	<b>553.0474</b>	<b>0.1535</b>	<b>0.0000</b>	<b>556.8836</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	lb/day										lb/day					
2021	0.2989	2.4093	2.3139	5.6800e-003	0.6136	0.1120	0.7255	0.0794	0.1030	0.1824	0.0000	553.0474	553.0474	0.1535	0.0000	556.8836
<b>Maximum</b>	<b>0.2989</b>	<b>2.4093</b>	<b>2.3139</b>	<b>5.6800e-003</b>	<b>0.6136</b>	<b>0.1120</b>	<b>0.7255</b>	<b>0.0794</b>	<b>0.1030</b>	<b>0.1824</b>	<b>0.0000</b>	<b>553.0474</b>	<b>553.0474</b>	<b>0.1535</b>	<b>0.0000</b>	<b>556.8836</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\_Planting and Erosion Control - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
<b>Total</b>	<b>9.9600e-003</b>	<b>0.0495</b>	<b>0.0863</b>	<b>3.5000e-004</b>	<b>0.0259</b>	<b>2.3000e-004</b>	<b>0.0262</b>	<b>6.9500e-003</b>	<b>2.2000e-004</b>	<b>7.1600e-003</b>		<b>35.5032</b>	<b>35.5032</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>35.5330</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
<b>Total</b>	<b>9.9600e-003</b>	<b>0.0495</b>	<b>0.0863</b>	<b>3.5000e-004</b>	<b>0.0259</b>	<b>2.3000e-004</b>	<b>0.0262</b>	<b>6.9500e-003</b>	<b>2.2000e-004</b>	<b>7.1600e-003</b>		<b>35.5032</b>	<b>35.5032</b>	<b>1.1900e-003</b>	<b>0.0000</b>	<b>35.5330</b>

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

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

### 3.0 Construction Detail

#### Construction Phase

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

Acres of Grading (Site Preparation Phase): 7.5

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	0	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

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

**3.1 Mitigation Measures Construction**

**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	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.2622	2.3736	2.0418	4.8400e-003		0.1114	0.1114		0.1025	0.1025		468.3541	468.3541	0.1515		472.1409
<b>Total</b>	<b>0.2622</b>	<b>2.3736</b>	<b>2.0418</b>	<b>4.8400e-003</b>	<b>0.5303</b>	<b>0.1114</b>	<b>0.6417</b>	<b>0.0573</b>	<b>0.1025</b>	<b>0.1598</b>		<b>468.3541</b>	<b>468.3541</b>	<b>0.1515</b>		<b>472.1409</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	lb/day										lb/day					
Hauling	5.0000e-004	0.0166	2.7200e-003	5.0000e-005	1.1700e-003	5.0000e-005	1.2200e-003	3.2000e-004	5.0000e-005	3.7000e-004		5.7097	5.7097	1.7000e-004		5.7140
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0366</b>	<b>0.0357</b>	<b>0.2721</b>	<b>8.4000e-004</b>	<b>0.0833</b>	<b>5.6000e-004</b>	<b>0.0839</b>	<b>0.0221</b>	<b>5.2000e-004</b>	<b>0.0226</b>		<b>84.6933</b>	<b>84.6933</b>	<b>1.9700e-003</b>		<b>84.7427</b>

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

**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	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.2622	2.3736	2.0418	4.8400e-003		0.1114	0.1114		0.1025	0.1025	0.0000	468.3541	468.3541	0.1515		472.1409
<b>Total</b>	<b>0.2622</b>	<b>2.3736</b>	<b>2.0418</b>	<b>4.8400e-003</b>	<b>0.5303</b>	<b>0.1114</b>	<b>0.6417</b>	<b>0.0573</b>	<b>0.1025</b>	<b>0.1598</b>	<b>0.0000</b>	<b>468.3541</b>	<b>468.3541</b>	<b>0.1515</b>		<b>472.1409</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	lb/day										lb/day					
Hauling	5.0000e-004	0.0166	2.7200e-003	5.0000e-005	1.1700e-003	5.0000e-005	1.2200e-003	3.2000e-004	5.0000e-005	3.7000e-004		5.7097	5.7097	1.7000e-004		5.7140
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0361	0.0191	0.2694	7.9000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		78.9836	78.9836	1.8000e-003		79.0287
<b>Total</b>	<b>0.0366</b>	<b>0.0357</b>	<b>0.2721</b>	<b>8.4000e-004</b>	<b>0.0833</b>	<b>5.6000e-004</b>	<b>0.0839</b>	<b>0.0221</b>	<b>5.2000e-004</b>	<b>0.0226</b>		<b>84.6933</b>	<b>84.6933</b>	<b>1.9700e-003</b>		<b>84.7427</b>

**4.0 Operational Detail - Mobile**

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

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330
Unmitigated	9.4000e-003	0.0495	0.0863	3.5000e-004	0.0259	2.3000e-004	0.0262	6.9500e-003	2.2000e-004	7.1600e-003		35.5031	35.5031	1.1900e-003		35.5330

**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 C\_Planting and Erosion Control - Placer County APCD Air District, Summer

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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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	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

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

**Mitigated**

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

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
Unmitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

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

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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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**

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

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

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

Equipment Type	Number
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**11.0 Vegetation**

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

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

**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, Summer

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, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	1.1501	11.4754	12.1528	0.0233	0.1110	0.5186	0.6296	0.0301	0.4880	0.5180	0.0000	2,255.1381	2,255.1381	0.4967	0.0000	2,267.5566
<b>Maximum</b>	<b>1.1501</b>	<b>11.4754</b>	<b>12.1528</b>	<b>0.0233</b>	<b>0.1110</b>	<b>0.5186</b>	<b>0.6296</b>	<b>0.0301</b>	<b>0.4880</b>	<b>0.5180</b>	<b>0.0000</b>	<b>2,255.1381</b>	<b>2,255.1381</b>	<b>0.4967</b>	<b>0.0000</b>	<b>2,267.5566</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	lb/day										lb/day					
2023	1.1501	11.4754	12.1528	0.0233	0.1110	0.5186	0.6296	0.0301	0.4880	0.5180	0.0000	2,255.1381	2,255.1381	0.4967	0.0000	2,267.5566
<b>Maximum</b>	<b>1.1501</b>	<b>11.4754</b>	<b>12.1528</b>	<b>0.0233</b>	<b>0.1110</b>	<b>0.5186</b>	<b>0.6296</b>	<b>0.0301</b>	<b>0.4880</b>	<b>0.5180</b>	<b>0.0000</b>	<b>2,255.1381</b>	<b>2,255.1381</b>	<b>0.4967</b>	<b>0.0000</b>	<b>2,267.5566</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, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	8.3900e-003	0.0466	0.0756	3.3000e-004	0.0259	2.1000e-004	0.0261	6.9500e-003	2.0000e-004	7.1500e-003		33.4899	33.4899	1.0700e-003		33.5166
<b>Total</b>	<b>8.9500e-003</b>	<b>0.0466</b>	<b>0.0757</b>	<b>3.3000e-004</b>	<b>0.0259</b>	<b>2.1000e-004</b>	<b>0.0261</b>	<b>6.9500e-003</b>	<b>2.0000e-004</b>	<b>7.1500e-003</b>		<b>33.4900</b>	<b>33.4900</b>	<b>1.0700e-003</b>	<b>0.0000</b>	<b>33.5166</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	8.3900e-003	0.0466	0.0756	3.3000e-004	0.0259	2.1000e-004	0.0261	6.9500e-003	2.0000e-004	7.1500e-003		33.4899	33.4899	1.0700e-003		33.5166
<b>Total</b>	<b>8.9500e-003</b>	<b>0.0466</b>	<b>0.0757</b>	<b>3.3000e-004</b>	<b>0.0259</b>	<b>2.1000e-004</b>	<b>0.0261</b>	<b>6.9500e-003</b>	<b>2.0000e-004</b>	<b>7.1500e-003</b>		<b>33.4900</b>	<b>33.4900</b>	<b>1.0700e-003</b>	<b>0.0000</b>	<b>33.5166</b>

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

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

### 3.0 Construction Detail

#### Construction Phase

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

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; 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

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

**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**

**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	lb/day										lb/day					
Off-Road	1.1094	11.1033	11.8578	0.0214		0.5178	0.5178		0.4871	0.4871		2,054.3803	2,054.3803	0.4914		2,066.6660
<b>Total</b>	<b>1.1094</b>	<b>11.1033</b>	<b>11.8578</b>	<b>0.0214</b>		<b>0.5178</b>	<b>0.5178</b>		<b>0.4871</b>	<b>0.4871</b>		<b>2,054.3803</b>	<b>2,054.3803</b>	<b>0.4914</b>		<b>2,066.6660</b>

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

**3.2 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.2000e-004	0.0170	3.4500e-003	8.0000e-005	1.7500e-003	3.0000e-005	1.7800e-003	4.8000e-004	3.0000e-005	5.1000e-004		8.2596	8.2596	1.8000e-004		8.2640
Vendor	8.5300e-003	0.3396	0.0614	1.1400e-003	0.0271	3.7000e-004	0.0275	7.8000e-003	3.5000e-004	8.1500e-003		119.3134	119.3134	3.6800e-003		119.4054
Worker	0.0317	0.0155	0.2302	7.3000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.5000e-004	0.0222		73.1849	73.1849	1.4500e-003		73.2212
<b>Total</b>	<b>0.0407</b>	<b>0.3721</b>	<b>0.2950</b>	<b>1.9500e-003</b>	<b>0.1110</b>	<b>8.9000e-004</b>	<b>0.1119</b>	<b>0.0301</b>	<b>8.3000e-004</b>	<b>0.0309</b>		<b>200.7578</b>	<b>200.7578</b>	<b>5.3100e-003</b>		<b>200.8906</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1094	11.1033	11.8578	0.0214		0.5178	0.5178		0.4871	0.4871	0.0000	2,054.3803	2,054.3803	0.4914		2,066.6660
<b>Total</b>	<b>1.1094</b>	<b>11.1033</b>	<b>11.8578</b>	<b>0.0214</b>		<b>0.5178</b>	<b>0.5178</b>		<b>0.4871</b>	<b>0.4871</b>	<b>0.0000</b>	<b>2,054.3803</b>	<b>2,054.3803</b>	<b>0.4914</b>		<b>2,066.6660</b>

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

**3.2 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.2000e-004	0.0170	3.4500e-003	8.0000e-005	1.7500e-003	3.0000e-005	1.7800e-003	4.8000e-004	3.0000e-005	5.1000e-004		8.2596	8.2596	1.8000e-004		8.2640
Vendor	8.5300e-003	0.3396	0.0614	1.1400e-003	0.0271	3.7000e-004	0.0275	7.8000e-003	3.5000e-004	8.1500e-003		119.3134	119.3134	3.6800e-003		119.4054
Worker	0.0317	0.0155	0.2302	7.3000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.5000e-004	0.0222		73.1849	73.1849	1.4500e-003		73.2212
<b>Total</b>	<b>0.0407</b>	<b>0.3721</b>	<b>0.2950</b>	<b>1.9500e-003</b>	<b>0.1110</b>	<b>8.9000e-004</b>	<b>0.1119</b>	<b>0.0301</b>	<b>8.3000e-004</b>	<b>0.0309</b>		<b>200.7578</b>	<b>200.7578</b>	<b>5.3100e-003</b>		<b>200.8906</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.3900e-003	0.0466	0.0756	3.3000e-004	0.0259	2.1000e-004	0.0261	6.9500e-003	2.0000e-004	7.1500e-003		33.4899	33.4899	1.0700e-003		33.5166
Unmitigated	8.3900e-003	0.0466	0.0756	3.3000e-004	0.0259	2.1000e-004	0.0261	6.9500e-003	2.0000e-004	7.1500e-003		33.4899	33.4899	1.0700e-003		33.5166

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

5.0 Energy Detail

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

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

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

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
Unmitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**7.0 Water Detail**

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

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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

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

**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\_Existing Bridge 21 - Placer County APCD Air District, Summer

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

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	0.9261	9.0372	10.5375	0.0192	0.1104	0.4360	0.5464	0.0299	0.4024	0.4323	0.0000	1,869.5816	1,869.5816	0.4782	0.0000	1,881.5357
<b>Maximum</b>	<b>0.9261</b>	<b>9.0372</b>	<b>10.5375</b>	<b>0.0192</b>	<b>0.1104</b>	<b>0.4360</b>	<b>0.5464</b>	<b>0.0299</b>	<b>0.4024</b>	<b>0.4323</b>	<b>0.0000</b>	<b>1,869.5816</b>	<b>1,869.5816</b>	<b>0.4782</b>	<b>0.0000</b>	<b>1,881.5357</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	lb/day										lb/day					
2023	0.9261	9.0372	10.5375	0.0192	0.1104	0.4360	0.5464	0.0299	0.4024	0.4323	0.0000	1,869.5816	1,869.5816	0.4782	0.0000	1,881.5357
<b>Maximum</b>	<b>0.9261</b>	<b>9.0372</b>	<b>10.5375</b>	<b>0.0192</b>	<b>0.1104</b>	<b>0.4360</b>	<b>0.5464</b>	<b>0.0299</b>	<b>0.4024</b>	<b>0.4323</b>	<b>0.0000</b>	<b>1,869.5816</b>	<b>1,869.5816</b>	<b>0.4782</b>	<b>0.0000</b>	<b>1,881.5357</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\_Existing Bridge 21 - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	8.3900e-003	0.0466	0.0756	3.3000e-004	0.0259	2.1000e-004	0.0261	6.9500e-003	2.0000e-004	7.1500e-003		33.4899	33.4899	1.0700e-003		33.5166
<b>Total</b>	<b>8.9500e-003</b>	<b>0.0466</b>	<b>0.0757</b>	<b>3.3000e-004</b>	<b>0.0259</b>	<b>2.1000e-004</b>	<b>0.0261</b>	<b>6.9500e-003</b>	<b>2.0000e-004</b>	<b>7.1500e-003</b>		<b>33.4900</b>	<b>33.4900</b>	<b>1.0700e-003</b>	<b>0.0000</b>	<b>33.5166</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	8.3900e-003	0.0466	0.0756	3.3000e-004	0.0259	2.1000e-004	0.0261	6.9500e-003	2.0000e-004	7.1500e-003		33.4899	33.4899	1.0700e-003		33.5166
<b>Total</b>	<b>8.9500e-003</b>	<b>0.0466</b>	<b>0.0757</b>	<b>3.3000e-004</b>	<b>0.0259</b>	<b>2.1000e-004</b>	<b>0.0261</b>	<b>6.9500e-003</b>	<b>2.0000e-004</b>	<b>7.1500e-003</b>		<b>33.4900</b>	<b>33.4900</b>	<b>1.0700e-003</b>	<b>0.0000</b>	<b>33.5166</b>

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

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

### 3.0 Construction Detail

#### Construction Phase

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

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; 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

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

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**

**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	lb/day										lb/day					
Off-Road	0.8856	8.6708	10.2437	0.0173		0.4352	0.4352		0.4016	0.4016		1,671.5770	1,671.5770	0.4729		1,683.3998
<b>Total</b>	<b>0.8856</b>	<b>8.6708</b>	<b>10.2437</b>	<b>0.0173</b>		<b>0.4352</b>	<b>0.4352</b>		<b>0.4016</b>	<b>0.4016</b>		<b>1,671.5770</b>	<b>1,671.5770</b>	<b>0.4729</b>		<b>1,683.3998</b>

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

**3.2 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4000e-004	0.0113	2.3000e-003	5.0000e-005	1.1700e-003	2.0000e-005	1.1900e-003	3.2000e-004	2.0000e-005	3.4000e-004		5.5064	5.5064	1.2000e-004		5.5093
Vendor	8.5300e-003	0.3396	0.0614	1.1400e-003	0.0271	3.7000e-004	0.0275	7.8000e-003	3.5000e-004	8.1500e-003		119.3134	119.3134	3.6800e-003		119.4054
Worker	0.0317	0.0155	0.2302	7.3000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.5000e-004	0.0222		73.1849	73.1849	1.4500e-003		73.2212
<b>Total</b>	<b>0.0405</b>	<b>0.3664</b>	<b>0.2938</b>	<b>1.9200e-003</b>	<b>0.1104</b>	<b>8.8000e-004</b>	<b>0.1113</b>	<b>0.0299</b>	<b>8.2000e-004</b>	<b>0.0307</b>		<b>198.0046</b>	<b>198.0046</b>	<b>5.2500e-003</b>		<b>198.1359</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.8856	8.6708	10.2437	0.0173		0.4352	0.4352		0.4016	0.4016	0.0000	1,671.5770	1,671.5770	0.4729		1,683.3998
<b>Total</b>	<b>0.8856</b>	<b>8.6708</b>	<b>10.2437</b>	<b>0.0173</b>		<b>0.4352</b>	<b>0.4352</b>		<b>0.4016</b>	<b>0.4016</b>	<b>0.0000</b>	<b>1,671.5770</b>	<b>1,671.5770</b>	<b>0.4729</b>		<b>1,683.3998</b>

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

**3.2 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4000e-004	0.0113	2.3000e-003	5.0000e-005	1.1700e-003	2.0000e-005	1.1900e-003	3.2000e-004	2.0000e-005	3.4000e-004		5.5064	5.5064	1.2000e-004		5.5093
Vendor	8.5300e-003	0.3396	0.0614	1.1400e-003	0.0271	3.7000e-004	0.0275	7.8000e-003	3.5000e-004	8.1500e-003		119.3134	119.3134	3.6800e-003		119.4054
Worker	0.0317	0.0155	0.2302	7.3000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.5000e-004	0.0222		73.1849	73.1849	1.4500e-003		73.2212
<b>Total</b>	<b>0.0405</b>	<b>0.3664</b>	<b>0.2938</b>	<b>1.9200e-003</b>	<b>0.1104</b>	<b>8.8000e-004</b>	<b>0.1113</b>	<b>0.0299</b>	<b>8.2000e-004</b>	<b>0.0307</b>		<b>198.0046</b>	<b>198.0046</b>	<b>5.2500e-003</b>		<b>198.1359</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.3900e-003	0.0466	0.0756	3.3000e-004	0.0259	2.1000e-004	0.0261	6.9500e-003	2.0000e-004	7.1500e-003		33.4899	33.4899	1.0700e-003		33.5166
Unmitigated	8.3900e-003	0.0466	0.0756	3.3000e-004	0.0259	2.1000e-004	0.0261	6.9500e-003	2.0000e-004	7.1500e-003		33.4899	33.4899	1.0700e-003		33.5166

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

5.0 Energy Detail

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

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

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

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
Unmitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**7.0 Water Detail**

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

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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

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

**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 30 - Placer County APCD Air District, Summer

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

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	1.0844	10.7288	12.0716	0.0233	0.1114	0.4635	0.5749	0.0302	0.4358	0.4660	0.0000	2,253.7240	2,253.7240	0.4955	0.0000	2,266.1121
<b>Maximum</b>	<b>1.0844</b>	<b>10.7288</b>	<b>12.0716</b>	<b>0.0233</b>	<b>0.1114</b>	<b>0.4635</b>	<b>0.5749</b>	<b>0.0302</b>	<b>0.4358</b>	<b>0.4660</b>	<b>0.0000</b>	<b>2,253.7240</b>	<b>2,253.7240</b>	<b>0.4955</b>	<b>0.0000</b>	<b>2,266.1121</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	lb/day										lb/day					
2024	1.0844	10.7288	12.0716	0.0233	0.1114	0.4635	0.5749	0.0302	0.4358	0.4660	0.0000	2,253.7240	2,253.7240	0.4955	0.0000	2,266.1121
<b>Maximum</b>	<b>1.0844</b>	<b>10.7288</b>	<b>12.0716</b>	<b>0.0233</b>	<b>0.1114</b>	<b>0.4635</b>	<b>0.5749</b>	<b>0.0302</b>	<b>0.4358</b>	<b>0.4660</b>	<b>0.0000</b>	<b>2,253.7240</b>	<b>2,253.7240</b>	<b>0.4955</b>	<b>0.0000</b>	<b>2,266.1121</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 30 - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	8.3900e-003	0.0466	0.0756	3.3000e-004	0.0259	2.1000e-004	0.0261	6.9500e-003	2.0000e-004	7.1500e-003		33.4899	33.4899	1.0700e-003		33.5166
<b>Total</b>	<b>8.9500e-003</b>	<b>0.0466</b>	<b>0.0757</b>	<b>3.3000e-004</b>	<b>0.0259</b>	<b>2.1000e-004</b>	<b>0.0261</b>	<b>6.9500e-003</b>	<b>2.0000e-004</b>	<b>7.1500e-003</b>		<b>33.4900</b>	<b>33.4900</b>	<b>1.0700e-003</b>	<b>0.0000</b>	<b>33.5166</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	8.3900e-003	0.0466	0.0756	3.3000e-004	0.0259	2.1000e-004	0.0261	6.9500e-003	2.0000e-004	7.1500e-003		33.4899	33.4899	1.0700e-003		33.5166
<b>Total</b>	<b>8.9500e-003</b>	<b>0.0466</b>	<b>0.0757</b>	<b>3.3000e-004</b>	<b>0.0259</b>	<b>2.1000e-004</b>	<b>0.0261</b>	<b>6.9500e-003</b>	<b>2.0000e-004</b>	<b>7.1500e-003</b>		<b>33.4900</b>	<b>33.4900</b>	<b>1.0700e-003</b>	<b>0.0000</b>	<b>33.5166</b>

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

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

### 3.0 Construction Detail

#### Construction Phase

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

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; 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

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

**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**

**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	lb/day										lb/day					
Off-Road	1.0458	10.3590	11.7949	0.0214		0.4626	0.4626		0.4350	0.4350		2,054.6467	2,054.6467	0.4904		2,066.9072
<b>Total</b>	<b>1.0458</b>	<b>10.3590</b>	<b>11.7949</b>	<b>0.0214</b>		<b>0.4626</b>	<b>0.4626</b>		<b>0.4350</b>	<b>0.4350</b>		<b>2,054.6467</b>	<b>2,054.6467</b>	<b>0.4904</b>		<b>2,066.9072</b>

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

**3.2 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.3000e-004	0.0206	4.2400e-003	1.0000e-004	2.1900e-003	4.0000e-005	2.2200e-003	6.0000e-004	4.0000e-005	6.4000e-004		10.2519	10.2519	2.2000e-004		10.2573
Vendor	8.2500e-003	0.3351	0.0585	1.1300e-003	0.0271	3.5000e-004	0.0274	7.8000e-003	3.4000e-004	8.1400e-003		118.5181	118.5181	3.5700e-003		118.6075
Worker	0.0298	0.0141	0.2139	7.1000e-004	0.0822	4.8000e-004	0.0826	0.0218	4.4000e-004	0.0222		70.3073	70.3073	1.3100e-003		70.3400
<b>Total</b>	<b>0.0387</b>	<b>0.3697</b>	<b>0.2767</b>	<b>1.9400e-003</b>	<b>0.1114</b>	<b>8.7000e-004</b>	<b>0.1123</b>	<b>0.0302</b>	<b>8.2000e-004</b>	<b>0.0310</b>		<b>199.0773</b>	<b>199.0773</b>	<b>5.1000e-003</b>		<b>199.2048</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0458	10.3590	11.7949	0.0214		0.4626	0.4626		0.4350	0.4350	0.0000	2,054.6467	2,054.6467	0.4904		2,066.9072
<b>Total</b>	<b>1.0458</b>	<b>10.3590</b>	<b>11.7949</b>	<b>0.0214</b>		<b>0.4626</b>	<b>0.4626</b>		<b>0.4350</b>	<b>0.4350</b>	<b>0.0000</b>	<b>2,054.6467</b>	<b>2,054.6467</b>	<b>0.4904</b>		<b>2,066.9072</b>

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

**3.2 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	6.3000e-004	0.0206	4.2400e-003	1.0000e-004	2.1900e-003	4.0000e-005	2.2200e-003	6.0000e-004	4.0000e-005	6.4000e-004		10.2519	10.2519	2.2000e-004		10.2573
Vendor	8.2500e-003	0.3351	0.0585	1.1300e-003	0.0271	3.5000e-004	0.0274	7.8000e-003	3.4000e-004	8.1400e-003		118.5181	118.5181	3.5700e-003		118.6075
Worker	0.0298	0.0141	0.2139	7.1000e-004	0.0822	4.8000e-004	0.0826	0.0218	4.4000e-004	0.0222		70.3073	70.3073	1.3100e-003		70.3400
<b>Total</b>	<b>0.0387</b>	<b>0.3697</b>	<b>0.2767</b>	<b>1.9400e-003</b>	<b>0.1114</b>	<b>8.7000e-004</b>	<b>0.1123</b>	<b>0.0302</b>	<b>8.2000e-004</b>	<b>0.0310</b>		<b>199.0773</b>	<b>199.0773</b>	<b>5.1000e-003</b>		<b>199.2048</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.3900e-003	0.0466	0.0756	3.3000e-004	0.0259	2.1000e-004	0.0261	6.9500e-003	2.0000e-004	7.1500e-003		33.4899	33.4899	1.0700e-003		33.5166
Unmitigated	8.3900e-003	0.0466	0.0756	3.3000e-004	0.0259	2.1000e-004	0.0261	6.9500e-003	2.0000e-004	7.1500e-003		33.4899	33.4899	1.0700e-003		33.5166

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

5.0 Energy Detail

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

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

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

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
Unmitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**7.0 Water Detail**

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

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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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\_Clearing and Grading - Placer County APCD Air District, Summer

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

**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.

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, Summer

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, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	1.8416	17.9793	16.9039	0.0353	3.5728	0.8188	4.3916	1.7339	0.7533	2.4872	0.0000	3,427.1064	3,427.1064	1.0488	0.0000	3,453.3259
<b>Maximum</b>	<b>1.8416</b>	<b>17.9793</b>	<b>16.9039</b>	<b>0.0353</b>	<b>3.5728</b>	<b>0.8188</b>	<b>4.3916</b>	<b>1.7339</b>	<b>0.7533</b>	<b>2.4872</b>	<b>0.0000</b>	<b>3,427.1064</b>	<b>3,427.1064</b>	<b>1.0488</b>	<b>0.0000</b>	<b>3,453.3259</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	lb/day										lb/day					
2023	1.8416	17.9793	16.9039	0.0353	3.5728	0.8188	4.3916	1.7339	0.7533	2.4872	0.0000	3,427.1064	3,427.1064	1.0488	0.0000	3,453.3259
<b>Maximum</b>	<b>1.8416</b>	<b>17.9793</b>	<b>16.9039</b>	<b>0.0353</b>	<b>3.5728</b>	<b>0.8188</b>	<b>4.3916</b>	<b>1.7339</b>	<b>0.7533</b>	<b>2.4872</b>	<b>0.0000</b>	<b>3,427.1064</b>	<b>3,427.1064</b>	<b>1.0488</b>	<b>0.0000</b>	<b>3,453.3259</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, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0192	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.8600e-003	1.8600e-003	0.0000		1.9800e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.2854	1.5834	2.5712	0.0112	0.8812	7.3100e-003	0.8885	0.2362	6.8200e-003	0.2430		1,138.6578	1,138.6578	0.0362		1,139.5634
<b>Total</b>	<b>0.3045</b>	<b>1.5834</b>	<b>2.5720</b>	<b>0.0112</b>	<b>0.8812</b>	<b>7.3100e-003</b>	<b>0.8885</b>	<b>0.2362</b>	<b>6.8200e-003</b>	<b>0.2430</b>		<b>1,138.6596</b>	<b>1,138.6596</b>	<b>0.0362</b>	<b>0.0000</b>	<b>1,139.5653</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0192	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.8600e-003	1.8600e-003	0.0000		1.9800e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.2854	1.5834	2.5712	0.0112	0.8812	7.3100e-003	0.8885	0.2362	6.8200e-003	0.2430		1,138.6578	1,138.6578	0.0362		1,139.5634
<b>Total</b>	<b>0.3045</b>	<b>1.5834</b>	<b>2.5720</b>	<b>0.0112</b>	<b>0.8812</b>	<b>7.3100e-003</b>	<b>0.8885</b>	<b>0.2362</b>	<b>6.8200e-003</b>	<b>0.2430</b>		<b>1,138.6596</b>	<b>1,138.6596</b>	<b>0.0362</b>	<b>0.0000</b>	<b>1,139.5653</b>

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

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Initial Clearing and Rough Grading	Site Preparation	4/1/2023	4/28/2023	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; 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

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

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**

**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	lb/day										lb/day					
Fugitive Dust					3.4618	0.0000	3.4618	1.7038	0.0000	1.7038			0.0000			0.0000
Off-Road	1.8009	17.6072	16.6089	0.0333		0.8179	0.8179		0.7525	0.7525		3,226.3486	3,226.3486	1.0435		3,252.4353
<b>Total</b>	<b>1.8009</b>	<b>17.6072</b>	<b>16.6089</b>	<b>0.0333</b>	<b>3.4618</b>	<b>0.8179</b>	<b>4.2797</b>	<b>1.7038</b>	<b>0.7525</b>	<b>2.4563</b>		<b>3,226.3486</b>	<b>3,226.3486</b>	<b>1.0435</b>		<b>3,252.4353</b>

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

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

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.2000e-004	0.0170	3.4500e-003	8.0000e-005	1.7500e-003	3.0000e-005	1.7800e-003	4.8000e-004	3.0000e-005	5.1000e-004		8.2596	8.2596	1.8000e-004		8.2640
Vendor	8.5300e-003	0.3396	0.0614	1.1400e-003	0.0271	3.7000e-004	0.0275	7.8000e-003	3.5000e-004	8.1500e-003		119.3134	119.3134	3.6800e-003		119.4054
Worker	0.0317	0.0155	0.2302	7.3000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.5000e-004	0.0222		73.1849	73.1849	1.4500e-003		73.2212
<b>Total</b>	<b>0.0407</b>	<b>0.3721</b>	<b>0.2950</b>	<b>1.9500e-003</b>	<b>0.1110</b>	<b>8.9000e-004</b>	<b>0.1119</b>	<b>0.0301</b>	<b>8.3000e-004</b>	<b>0.0309</b>		<b>200.7578</b>	<b>200.7578</b>	<b>5.3100e-003</b>		<b>200.8906</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.4618	0.0000	3.4618	1.7038	0.0000	1.7038			0.0000			0.0000
Off-Road	1.8009	17.6072	16.6089	0.0333		0.8179	0.8179		0.7525	0.7525	0.0000	3,226.3486	3,226.3486	1.0435		3,252.4353
<b>Total</b>	<b>1.8009</b>	<b>17.6072</b>	<b>16.6089</b>	<b>0.0333</b>	<b>3.4618</b>	<b>0.8179</b>	<b>4.2797</b>	<b>1.7038</b>	<b>0.7525</b>	<b>2.4563</b>	<b>0.0000</b>	<b>3,226.3486</b>	<b>3,226.3486</b>	<b>1.0435</b>		<b>3,252.4353</b>

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

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

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	5.2000e-004	0.0170	3.4500e-003	8.0000e-005	1.7500e-003	3.0000e-005	1.7800e-003	4.8000e-004	3.0000e-005	5.1000e-004		8.2596	8.2596	1.8000e-004		8.2640
Vendor	8.5300e-003	0.3396	0.0614	1.1400e-003	0.0271	3.7000e-004	0.0275	7.8000e-003	3.5000e-004	8.1500e-003		119.3134	119.3134	3.6800e-003		119.4054
Worker	0.0317	0.0155	0.2302	7.3000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.5000e-004	0.0222		73.1849	73.1849	1.4500e-003		73.2212
<b>Total</b>	<b>0.0407</b>	<b>0.3721</b>	<b>0.2950</b>	<b>1.9500e-003</b>	<b>0.1110</b>	<b>8.9000e-004</b>	<b>0.1119</b>	<b>0.0301</b>	<b>8.3000e-004</b>	<b>0.0309</b>		<b>200.7578</b>	<b>200.7578</b>	<b>5.3100e-003</b>		<b>200.8906</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2854	1.5834	2.5712	0.0112	0.8812	7.3100e-003	0.8885	0.2362	6.8200e-003	0.2430		1,138.6578	1,138.6578	0.0362		1,139.5634
Unmitigated	0.2854	1.5834	2.5712	0.0112	0.8812	7.3100e-003	0.8885	0.2362	6.8200e-003	0.2430		1,138.6578	1,138.6578	0.0362		1,139.5634

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

5.0 Energy Detail

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

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

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

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0192	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.8600e-003	1.8600e-003	0.0000		1.9800e-003
Unmitigated	0.0192	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.8600e-003	1.8600e-003	0.0000		1.9800e-003

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0191					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.0000e-005	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.8600e-003	1.8600e-003	0.0000		1.9800e-003
<b>Total</b>	<b>0.0192</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.8600e-003</b>	<b>1.8600e-003</b>	<b>0.0000</b>		<b>1.9800e-003</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0191					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.0000e-005	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.8600e-003	1.8600e-003	0.0000		1.9800e-003
<b>Total</b>	<b>0.0192</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.8600e-003</b>	<b>1.8600e-003</b>	<b>0.0000</b>		<b>1.9800e-003</b>

**7.0 Water Detail**

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

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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

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

**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, Summer

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, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	0.2269	1.7947	1.7122	7.0000e-003	0.1092	0.0540	0.1632	0.0296	0.0497	0.0792	0.0000	689.3429	689.3429	0.1658	0.0000	693.4885
<b>Maximum</b>	<b>0.2269</b>	<b>1.7947</b>	<b>1.7122</b>	<b>7.0000e-003</b>	<b>0.1092</b>	<b>0.0540</b>	<b>0.1632</b>	<b>0.0296</b>	<b>0.0497</b>	<b>0.0792</b>	<b>0.0000</b>	<b>689.3429</b>	<b>689.3429</b>	<b>0.1658</b>	<b>0.0000</b>	<b>693.4885</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	lb/day										lb/day					
2023	0.2269	1.7947	1.7122	7.0000e-003	0.1092	0.0540	0.1632	0.0296	0.0497	0.0792	0.0000	689.3429	689.3429	0.1658	0.0000	693.4885
<b>Maximum</b>	<b>0.2269</b>	<b>1.7947</b>	<b>1.7122</b>	<b>7.0000e-003</b>	<b>0.1092</b>	<b>0.0540</b>	<b>0.1632</b>	<b>0.0296</b>	<b>0.0497</b>	<b>0.0792</b>	<b>0.0000</b>	<b>689.3429</b>	<b>689.3429</b>	<b>0.1658</b>	<b>0.0000</b>	<b>693.4885</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, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	8.3900e-003	0.0466	0.0756	3.3000e-004	0.0259	2.1000e-004	0.0261	6.9500e-003	2.0000e-004	7.1500e-003		33.4899	33.4899	1.0700e-003		33.5166
<b>Total</b>	<b>8.9500e-003</b>	<b>0.0466</b>	<b>0.0757</b>	<b>3.3000e-004</b>	<b>0.0259</b>	<b>2.1000e-004</b>	<b>0.0261</b>	<b>6.9500e-003</b>	<b>2.0000e-004</b>	<b>7.1500e-003</b>		<b>33.4900</b>	<b>33.4900</b>	<b>1.0700e-003</b>	<b>0.0000</b>	<b>33.5166</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	8.3900e-003	0.0466	0.0756	3.3000e-004	0.0259	2.1000e-004	0.0261	6.9500e-003	2.0000e-004	7.1500e-003		33.4899	33.4899	1.0700e-003		33.5166
<b>Total</b>	<b>8.9500e-003</b>	<b>0.0466</b>	<b>0.0757</b>	<b>3.3000e-004</b>	<b>0.0259</b>	<b>2.1000e-004</b>	<b>0.0261</b>	<b>6.9500e-003</b>	<b>2.0000e-004</b>	<b>7.1500e-003</b>		<b>33.4900</b>	<b>33.4900</b>	<b>1.0700e-003</b>	<b>0.0000</b>	<b>33.5166</b>

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

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

### 3.0 Construction Detail

#### Construction Phase

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

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; 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

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

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**

**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	lb/day										lb/day					
Off-Road	0.1867	1.4396	1.4206	5.1300e-003		0.0531	0.0531		0.0489	0.0489		496.8447	496.8447	0.1607		500.8619
<b>Total</b>	<b>0.1867</b>	<b>1.4396</b>	<b>1.4206</b>	<b>5.1300e-003</b>		<b>0.0531</b>	<b>0.0531</b>		<b>0.0489</b>	<b>0.0489</b>		<b>496.8447</b>	<b>496.8447</b>	<b>0.1607</b>		<b>500.8619</b>

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

**3.2 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.5300e-003	0.3396	0.0614	1.1400e-003	0.0271	3.7000e-004	0.0275	7.8000e-003	3.5000e-004	8.1500e-003		119.3134	119.3134	3.6800e-003		119.4054
Worker	0.0317	0.0155	0.2302	7.3000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.5000e-004	0.0222		73.1849	73.1849	1.4500e-003		73.2212
<b>Total</b>	<b>0.0402</b>	<b>0.3551</b>	<b>0.2915</b>	<b>1.8700e-003</b>	<b>0.1092</b>	<b>8.6000e-004</b>	<b>0.1101</b>	<b>0.0296</b>	<b>8.0000e-004</b>	<b>0.0304</b>		<b>192.4983</b>	<b>192.4983</b>	<b>5.1300e-003</b>		<b>192.6266</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.1867	1.4396	1.4206	5.1300e-003		0.0531	0.0531		0.0489	0.0489	0.0000	496.8447	496.8447	0.1607		500.8619
<b>Total</b>	<b>0.1867</b>	<b>1.4396</b>	<b>1.4206</b>	<b>5.1300e-003</b>		<b>0.0531</b>	<b>0.0531</b>		<b>0.0489</b>	<b>0.0489</b>	<b>0.0000</b>	<b>496.8447</b>	<b>496.8447</b>	<b>0.1607</b>		<b>500.8619</b>

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

**3.2 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	8.5300e-003	0.3396	0.0614	1.1400e-003	0.0271	3.7000e-004	0.0275	7.8000e-003	3.5000e-004	8.1500e-003		119.3134	119.3134	3.6800e-003		119.4054
Worker	0.0317	0.0155	0.2302	7.3000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.5000e-004	0.0222		73.1849	73.1849	1.4500e-003		73.2212
<b>Total</b>	<b>0.0402</b>	<b>0.3551</b>	<b>0.2915</b>	<b>1.8700e-003</b>	<b>0.1092</b>	<b>8.6000e-004</b>	<b>0.1101</b>	<b>0.0296</b>	<b>8.0000e-004</b>	<b>0.0304</b>		<b>192.4983</b>	<b>192.4983</b>	<b>5.1300e-003</b>		<b>192.6266</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.3900e-003	0.0466	0.0756	3.3000e-004	0.0259	2.1000e-004	0.0261	6.9500e-003	2.0000e-004	7.1500e-003		33.4899	33.4899	1.0700e-003		33.5166
Unmitigated	8.3900e-003	0.0466	0.0756	3.3000e-004	0.0259	2.1000e-004	0.0261	6.9500e-003	2.0000e-004	7.1500e-003		33.4899	33.4899	1.0700e-003		33.5166

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

5.0 Energy Detail

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

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

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

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
Unmitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**7.0 Water Detail**

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

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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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\_Final Grading - Placer County APCD Air District, Summer

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

**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)

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

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

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	0.7774	8.6927	6.2691	0.0205	0.7685	0.2909	1.0594	0.1105	0.2677	0.3782	0.0000	2,013.1526	2,013.1526	0.5109	0.0000	2,025.9241
<b>Maximum</b>	<b>0.7774</b>	<b>8.6927</b>	<b>6.2691</b>	<b>0.0205</b>	<b>0.7685</b>	<b>0.2909</b>	<b>1.0594</b>	<b>0.1105</b>	<b>0.2677</b>	<b>0.3782</b>	<b>0.0000</b>	<b>2,013.1526</b>	<b>2,013.1526</b>	<b>0.5109</b>	<b>0.0000</b>	<b>2,025.9241</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	lb/day										lb/day					
2023	0.7774	8.6927	6.2691	0.0205	0.7685	0.2909	1.0594	0.1105	0.2677	0.3782	0.0000	2,013.1526	2,013.1526	0.5109	0.0000	2,025.9241
<b>Maximum</b>	<b>0.7774</b>	<b>8.6927</b>	<b>6.2691</b>	<b>0.0205</b>	<b>0.7685</b>	<b>0.2909</b>	<b>1.0594</b>	<b>0.1105</b>	<b>0.2677</b>	<b>0.3782</b>	<b>0.0000</b>	<b>2,013.1526</b>	<b>2,013.1526</b>	<b>0.5109</b>	<b>0.0000</b>	<b>2,025.9241</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\_Final Grading - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0192	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.8600e-003	1.8600e-003	0.0000		1.9800e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.2854	1.5834	2.5712	0.0112	0.8812	7.3100e-003	0.8885	0.2362	6.8200e-003	0.2430		1,138.6578	1,138.6578	0.0362		1,139.5634
<b>Total</b>	<b>0.3045</b>	<b>1.5834</b>	<b>2.5720</b>	<b>0.0112</b>	<b>0.8812</b>	<b>7.3100e-003</b>	<b>0.8885</b>	<b>0.2362</b>	<b>6.8200e-003</b>	<b>0.2430</b>		<b>1,138.6596</b>	<b>1,138.6596</b>	<b>0.0362</b>	<b>0.0000</b>	<b>1,139.5653</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0192	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.8600e-003	1.8600e-003	0.0000		1.9800e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.2854	1.5834	2.5712	0.0112	0.8812	7.3100e-003	0.8885	0.2362	6.8200e-003	0.2430		1,138.6578	1,138.6578	0.0362		1,139.5634
<b>Total</b>	<b>0.3045</b>	<b>1.5834</b>	<b>2.5720</b>	<b>0.0112</b>	<b>0.8812</b>	<b>7.3100e-003</b>	<b>0.8885</b>	<b>0.2362</b>	<b>6.8200e-003</b>	<b>0.2430</b>		<b>1,138.6596</b>	<b>1,138.6596</b>	<b>0.0362</b>	<b>0.0000</b>	<b>1,139.5653</b>

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

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

### 3.0 Construction Detail

#### Construction Phase

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

Acres of Grading (Site Preparation Phase): 0

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

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

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**

**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	lb/day										lb/day					
Fugitive Dust					0.6010	0.0000	0.6010	0.0649	0.0000	0.0649			0.0000			0.0000
Off-Road	0.7200	7.7714	5.8626	0.0160		0.2890	0.2890		0.2659	0.2659		1,545.3358	1,545.3358	0.4998		1,557.8307
<b>Total</b>	<b>0.7200</b>	<b>7.7714</b>	<b>5.8626</b>	<b>0.0160</b>	<b>0.6010</b>	<b>0.2890</b>	<b>0.8900</b>	<b>0.0649</b>	<b>0.2659</b>	<b>0.3308</b>		<b>1,545.3358</b>	<b>1,545.3358</b>	<b>0.4998</b>		<b>1,557.8307</b>

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

**3.2 Grading - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0172	0.5662	0.1150	2.6300e-003	0.0583	1.0700e-003	0.0594	0.0160	1.0200e-003	0.0170		275.3185	275.3185	5.9400e-003		275.4669
Vendor	8.5300e-003	0.3396	0.0614	1.1400e-003	0.0271	3.7000e-004	0.0275	7.8000e-003	3.5000e-004	8.1500e-003		119.3134	119.3134	3.6800e-003		119.4054
Worker	0.0317	0.0155	0.2302	7.3000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.5000e-004	0.0222		73.1849	73.1849	1.4500e-003		73.2212
<b>Total</b>	<b>0.0574</b>	<b>0.9213</b>	<b>0.4065</b>	<b>4.5000e-003</b>	<b>0.1675</b>	<b>1.9300e-003</b>	<b>0.1695</b>	<b>0.0456</b>	<b>1.8200e-003</b>	<b>0.0474</b>		<b>467.8167</b>	<b>467.8167</b>	<b>0.0111</b>		<b>468.0935</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.6010	0.0000	0.6010	0.0649	0.0000	0.0649			0.0000			0.0000
Off-Road	0.7200	7.7714	5.8626	0.0160		0.2890	0.2890		0.2659	0.2659	0.0000	1,545.3358	1,545.3358	0.4998		1,557.8307
<b>Total</b>	<b>0.7200</b>	<b>7.7714</b>	<b>5.8626</b>	<b>0.0160</b>	<b>0.6010</b>	<b>0.2890</b>	<b>0.8900</b>	<b>0.0649</b>	<b>0.2659</b>	<b>0.3308</b>	<b>0.0000</b>	<b>1,545.3358</b>	<b>1,545.3358</b>	<b>0.4998</b>		<b>1,557.8307</b>

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

**3.2 Grading - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0172	0.5662	0.1150	2.6300e-003	0.0583	1.0700e-003	0.0594	0.0160	1.0200e-003	0.0170		275.3185	275.3185	5.9400e-003		275.4669
Vendor	8.5300e-003	0.3396	0.0614	1.1400e-003	0.0271	3.7000e-004	0.0275	7.8000e-003	3.5000e-004	8.1500e-003		119.3134	119.3134	3.6800e-003		119.4054
Worker	0.0317	0.0155	0.2302	7.3000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.5000e-004	0.0222		73.1849	73.1849	1.4500e-003		73.2212
<b>Total</b>	<b>0.0574</b>	<b>0.9213</b>	<b>0.4065</b>	<b>4.5000e-003</b>	<b>0.1675</b>	<b>1.9300e-003</b>	<b>0.1695</b>	<b>0.0456</b>	<b>1.8200e-003</b>	<b>0.0474</b>		<b>467.8167</b>	<b>467.8167</b>	<b>0.0111</b>		<b>468.0935</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2854	1.5834	2.5712	0.0112	0.8812	7.3100e-003	0.8885	0.2362	6.8200e-003	0.2430		1,138.6578	1,138.6578	0.0362		1,139.5634
Unmitigated	0.2854	1.5834	2.5712	0.0112	0.8812	7.3100e-003	0.8885	0.2362	6.8200e-003	0.2430		1,138.6578	1,138.6578	0.0362		1,139.5634

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

5.0 Energy Detail

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

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

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

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0192	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.8600e-003	1.8600e-003	0.0000		1.9800e-003
Unmitigated	0.0192	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.8600e-003	1.8600e-003	0.0000		1.9800e-003

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0191					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.0000e-005	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.8600e-003	1.8600e-003	0.0000		1.9800e-003
<b>Total</b>	<b>0.0192</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.8600e-003</b>	<b>1.8600e-003</b>	<b>0.0000</b>		<b>1.9800e-003</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0191					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.0000e-005	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.8600e-003	1.8600e-003	0.0000		1.9800e-003
<b>Total</b>	<b>0.0192</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.8600e-003</b>	<b>1.8600e-003</b>	<b>0.0000</b>		<b>1.9800e-003</b>

**7.0 Water Detail**

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

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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

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

**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\_Old Auburn Undercrossing - Placer County APCD Air District, Summer

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

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2024	0.6960	6.2337	7.6944	0.0189	0.1098	0.2455	0.3553	0.0298	0.2259	0.2556	0.0000	1,834.9339	1,834.9339	0.5364	0.0000	1,848.3449
<b>Maximum</b>	<b>0.6960</b>	<b>6.2337</b>	<b>7.6944</b>	<b>0.0189</b>	<b>0.1098</b>	<b>0.2455</b>	<b>0.3553</b>	<b>0.0298</b>	<b>0.2259</b>	<b>0.2556</b>	<b>0.0000</b>	<b>1,834.9339</b>	<b>1,834.9339</b>	<b>0.5364</b>	<b>0.0000</b>	<b>1,848.3449</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	lb/day										lb/day					
2024	0.6960	6.2337	7.6944	0.0189	0.1098	0.2455	0.3553	0.0298	0.2259	0.2556	0.0000	1,834.9339	1,834.9339	0.5364	0.0000	1,848.3449
<b>Maximum</b>	<b>0.6960</b>	<b>6.2337</b>	<b>7.6944</b>	<b>0.0189</b>	<b>0.1098</b>	<b>0.2455</b>	<b>0.3553</b>	<b>0.0298</b>	<b>0.2259</b>	<b>0.2556</b>	<b>0.0000</b>	<b>1,834.9339</b>	<b>1,834.9339</b>	<b>0.5364</b>	<b>0.0000</b>	<b>1,848.3449</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\_Old Auburn Undercrossing - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	8.3900e-003	0.0466	0.0756	3.3000e-004	0.0259	2.1000e-004	0.0261	6.9500e-003	2.0000e-004	7.1500e-003		33.4899	33.4899	1.0700e-003		33.5166
<b>Total</b>	<b>8.9500e-003</b>	<b>0.0466</b>	<b>0.0757</b>	<b>3.3000e-004</b>	<b>0.0259</b>	<b>2.1000e-004</b>	<b>0.0261</b>	<b>6.9500e-003</b>	<b>2.0000e-004</b>	<b>7.1500e-003</b>		<b>33.4900</b>	<b>33.4900</b>	<b>1.0700e-003</b>	<b>0.0000</b>	<b>33.5166</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	8.3900e-003	0.0466	0.0756	3.3000e-004	0.0259	2.1000e-004	0.0261	6.9500e-003	2.0000e-004	7.1500e-003		33.4899	33.4899	1.0700e-003		33.5166
<b>Total</b>	<b>8.9500e-003</b>	<b>0.0466</b>	<b>0.0757</b>	<b>3.3000e-004</b>	<b>0.0259</b>	<b>2.1000e-004</b>	<b>0.0261</b>	<b>6.9500e-003</b>	<b>2.0000e-004</b>	<b>7.1500e-003</b>		<b>33.4900</b>	<b>33.4900</b>	<b>1.0700e-003</b>	<b>0.0000</b>	<b>33.5166</b>

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

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

### 3.0 Construction Detail

#### Construction Phase

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

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; 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

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

**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**

**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	lb/day										lb/day					
Off-Road	0.6578	5.8790	7.4208	0.0170		0.2446	0.2446		0.2251	0.2251		1,643.3746	1,643.3746	0.5315		1,656.6621
<b>Total</b>	<b>0.6578</b>	<b>5.8790</b>	<b>7.4208</b>	<b>0.0170</b>		<b>0.2446</b>	<b>0.2446</b>		<b>0.2251</b>	<b>0.2251</b>		<b>1,643.3746</b>	<b>1,643.3746</b>	<b>0.5315</b>		<b>1,656.6621</b>

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

**3.2 Building Construction - 2024**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.7000e-004	5.4900e-003	1.1300e-003	3.0000e-005	5.8000e-004	1.0000e-005	5.9000e-004	1.6000e-004	1.0000e-005	1.7000e-004		2.7338	2.7338	6.0000e-005		2.7353
Vendor	8.2500e-003	0.3351	0.0585	1.1300e-003	0.0271	3.5000e-004	0.0274	7.8000e-003	3.4000e-004	8.1400e-003		118.5181	118.5181	3.5700e-003		118.6075
Worker	0.0298	0.0141	0.2139	7.1000e-004	0.0822	4.8000e-004	0.0826	0.0218	4.4000e-004	0.0222		70.3073	70.3073	1.3100e-003		70.3400
<b>Total</b>	<b>0.0382</b>	<b>0.3546</b>	<b>0.2736</b>	<b>1.8700e-003</b>	<b>0.1098</b>	<b>8.4000e-004</b>	<b>0.1107</b>	<b>0.0298</b>	<b>7.9000e-004</b>	<b>0.0305</b>		<b>191.5593</b>	<b>191.5593</b>	<b>4.9400e-003</b>		<b>191.6828</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6578	5.8790	7.4208	0.0170		0.2446	0.2446		0.2251	0.2251	0.0000	1,643.3746	1,643.3746	0.5315		1,656.6621
<b>Total</b>	<b>0.6578</b>	<b>5.8790</b>	<b>7.4208</b>	<b>0.0170</b>		<b>0.2446</b>	<b>0.2446</b>		<b>0.2251</b>	<b>0.2251</b>	<b>0.0000</b>	<b>1,643.3746</b>	<b>1,643.3746</b>	<b>0.5315</b>		<b>1,656.6621</b>

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

**3.2 Building Construction - 2024**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.7000e-004	5.4900e-003	1.1300e-003	3.0000e-005	5.8000e-004	1.0000e-005	5.9000e-004	1.6000e-004	1.0000e-005	1.7000e-004		2.7338	2.7338	6.0000e-005		2.7353
Vendor	8.2500e-003	0.3351	0.0585	1.1300e-003	0.0271	3.5000e-004	0.0274	7.8000e-003	3.4000e-004	8.1400e-003		118.5181	118.5181	3.5700e-003		118.6075
Worker	0.0298	0.0141	0.2139	7.1000e-004	0.0822	4.8000e-004	0.0826	0.0218	4.4000e-004	0.0222		70.3073	70.3073	1.3100e-003		70.3400
<b>Total</b>	<b>0.0382</b>	<b>0.3546</b>	<b>0.2736</b>	<b>1.8700e-003</b>	<b>0.1098</b>	<b>8.4000e-004</b>	<b>0.1107</b>	<b>0.0298</b>	<b>7.9000e-004</b>	<b>0.0305</b>		<b>191.5593</b>	<b>191.5593</b>	<b>4.9400e-003</b>		<b>191.6828</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.3900e-003	0.0466	0.0756	3.3000e-004	0.0259	2.1000e-004	0.0261	6.9500e-003	2.0000e-004	7.1500e-003		33.4899	33.4899	1.0700e-003		33.5166
Unmitigated	8.3900e-003	0.0466	0.0756	3.3000e-004	0.0259	2.1000e-004	0.0261	6.9500e-003	2.0000e-004	7.1500e-003		33.4899	33.4899	1.0700e-003		33.5166

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

5.0 Energy Detail

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

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

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

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
Unmitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**7.0 Water Detail**

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

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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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, Summer

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

**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, Summer

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

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	0.6163	6.1868	8.4021	0.0147	0.1238	0.2878	0.4116	0.0336	0.2648	0.2983	0.0000	1,439.0878	1,439.0878	0.3875	0.0000	1,448.7760
<b>Maximum</b>	<b>0.6163</b>	<b>6.1868</b>	<b>8.4021</b>	<b>0.0147</b>	<b>0.1238</b>	<b>0.2878</b>	<b>0.4116</b>	<b>0.0336</b>	<b>0.2648</b>	<b>0.2983</b>	<b>0.0000</b>	<b>1,439.0878</b>	<b>1,439.0878</b>	<b>0.3875</b>	<b>0.0000</b>	<b>1,448.7760</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	lb/day										lb/day					
2023	0.6163	6.1868	8.4021	0.0147	0.1238	0.2878	0.4116	0.0336	0.2648	0.2983	0.0000	1,439.0878	1,439.0878	0.3875	0.0000	1,448.7760
<b>Maximum</b>	<b>0.6163</b>	<b>6.1868</b>	<b>8.4021</b>	<b>0.0147</b>	<b>0.1238</b>	<b>0.2878</b>	<b>0.4116</b>	<b>0.0336</b>	<b>0.2648</b>	<b>0.2983</b>	<b>0.0000</b>	<b>1,439.0878</b>	<b>1,439.0878</b>	<b>0.3875</b>	<b>0.0000</b>	<b>1,448.7760</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\_Paving - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0192	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.8600e-003	1.8600e-003	0.0000		1.9800e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.2854	1.5834	2.5712	0.0112	0.8812	7.3100e-003	0.8885	0.2362	6.8200e-003	0.2430		1,138.6578	1,138.6578	0.0362		1,139.5634
<b>Total</b>	<b>0.3045</b>	<b>1.5834</b>	<b>2.5720</b>	<b>0.0112</b>	<b>0.8812</b>	<b>7.3100e-003</b>	<b>0.8885</b>	<b>0.2362</b>	<b>6.8200e-003</b>	<b>0.2430</b>		<b>1,138.6596</b>	<b>1,138.6596</b>	<b>0.0362</b>	<b>0.0000</b>	<b>1,139.5653</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.0192	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.8600e-003	1.8600e-003	0.0000		1.9800e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.2854	1.5834	2.5712	0.0112	0.8812	7.3100e-003	0.8885	0.2362	6.8200e-003	0.2430		1,138.6578	1,138.6578	0.0362		1,139.5634
<b>Total</b>	<b>0.3045</b>	<b>1.5834</b>	<b>2.5720</b>	<b>0.0112</b>	<b>0.8812</b>	<b>7.3100e-003</b>	<b>0.8885</b>	<b>0.2362</b>	<b>6.8200e-003</b>	<b>0.2430</b>		<b>1,138.6596</b>	<b>1,138.6596</b>	<b>0.0362</b>	<b>0.0000</b>	<b>1,139.5653</b>

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

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

### 3.0 Construction Detail

#### Construction Phase

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

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; 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

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

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**

**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	lb/day										lb/day					
Off-Road	0.5718	5.6901	8.0819	0.0122		0.2866	0.2866		0.2637	0.2637		1,177.7599	1,177.7599	0.3809		1,187.2827
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.5718</b>	<b>5.6901</b>	<b>8.0819</b>	<b>0.0122</b>		<b>0.2866</b>	<b>0.2866</b>		<b>0.2637</b>	<b>0.2637</b>		<b>1,177.7599</b>	<b>1,177.7599</b>	<b>0.3809</b>		<b>1,187.2827</b>

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

**3.2 Paving - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.3000e-003	0.1416	0.0288	6.6000e-004	0.0146	2.7000e-004	0.0148	4.0000e-003	2.6000e-004	4.2500e-003		68.8296	68.8296	1.4800e-003		68.8667
Vendor	8.5300e-003	0.3396	0.0614	1.1400e-003	0.0271	3.7000e-004	0.0275	7.8000e-003	3.5000e-004	8.1500e-003		119.3134	119.3134	3.6800e-003		119.4054
Worker	0.0317	0.0155	0.2302	7.3000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.5000e-004	0.0222		73.1849	73.1849	1.4500e-003		73.2212
<b>Total</b>	<b>0.0445</b>	<b>0.4967</b>	<b>0.3203</b>	<b>2.5300e-003</b>	<b>0.1238</b>	<b>1.1300e-003</b>	<b>0.1249</b>	<b>0.0336</b>	<b>1.0600e-003</b>	<b>0.0346</b>		<b>261.3279</b>	<b>261.3279</b>	<b>6.6100e-003</b>		<b>261.4933</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5718	5.6901	8.0819	0.0122		0.2866	0.2866		0.2637	0.2637	0.0000	1,177.7599	1,177.7599	0.3809		1,187.2827
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.5718</b>	<b>5.6901</b>	<b>8.0819</b>	<b>0.0122</b>		<b>0.2866</b>	<b>0.2866</b>		<b>0.2637</b>	<b>0.2637</b>	<b>0.0000</b>	<b>1,177.7599</b>	<b>1,177.7599</b>	<b>0.3809</b>		<b>1,187.2827</b>

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

**3.2 Paving - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.3000e-003	0.1416	0.0288	6.6000e-004	0.0146	2.7000e-004	0.0148	4.0000e-003	2.6000e-004	4.2500e-003		68.8296	68.8296	1.4800e-003		68.8667
Vendor	8.5300e-003	0.3396	0.0614	1.1400e-003	0.0271	3.7000e-004	0.0275	7.8000e-003	3.5000e-004	8.1500e-003		119.3134	119.3134	3.6800e-003		119.4054
Worker	0.0317	0.0155	0.2302	7.3000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.5000e-004	0.0222		73.1849	73.1849	1.4500e-003		73.2212
<b>Total</b>	<b>0.0445</b>	<b>0.4967</b>	<b>0.3203</b>	<b>2.5300e-003</b>	<b>0.1238</b>	<b>1.1300e-003</b>	<b>0.1249</b>	<b>0.0336</b>	<b>1.0600e-003</b>	<b>0.0346</b>		<b>261.3279</b>	<b>261.3279</b>	<b>6.6100e-003</b>		<b>261.4933</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2854	1.5834	2.5712	0.0112	0.8812	7.3100e-003	0.8885	0.2362	6.8200e-003	0.2430		1,138.6578	1,138.6578	0.0362		1,139.5634
Unmitigated	0.2854	1.5834	2.5712	0.0112	0.8812	7.3100e-003	0.8885	0.2362	6.8200e-003	0.2430		1,138.6578	1,138.6578	0.0362		1,139.5634

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

5.0 Energy Detail

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

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

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

**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0192	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.8600e-003	1.8600e-003	0.0000		1.9800e-003
Unmitigated	0.0192	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.8600e-003	1.8600e-003	0.0000		1.9800e-003

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

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0191					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.0000e-005	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.8600e-003	1.8600e-003	0.0000		1.9800e-003
<b>Total</b>	<b>0.0192</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.8600e-003</b>	<b>1.8600e-003</b>	<b>0.0000</b>		<b>1.9800e-003</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0191					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	8.0000e-005	1.0000e-005	8.7000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.8600e-003	1.8600e-003	0.0000		1.9800e-003
<b>Total</b>	<b>0.0192</b>	<b>1.0000e-005</b>	<b>8.7000e-004</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>1.8600e-003</b>	<b>1.8600e-003</b>	<b>0.0000</b>		<b>1.9800e-003</b>

**7.0 Water Detail**

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

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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

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

**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, Summer

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, Summer

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	0.6310	6.4320	3.9016	0.0122	0.6136	0.2291	0.8426	0.0794	0.2107	0.2901	0.0000	1,187.7338	1,187.7338	0.3603	0.0000	1,196.7403
<b>Maximum</b>	<b>0.6310</b>	<b>6.4320</b>	<b>3.9016</b>	<b>0.0122</b>	<b>0.6136</b>	<b>0.2291</b>	<b>0.8426</b>	<b>0.0794</b>	<b>0.2107</b>	<b>0.2901</b>	<b>0.0000</b>	<b>1,187.7338</b>	<b>1,187.7338</b>	<b>0.3603</b>	<b>0.0000</b>	<b>1,196.7403</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	lb/day										lb/day					
2023	0.6310	6.4320	3.9016	0.0122	0.6136	0.2291	0.8426	0.0794	0.2107	0.2901	0.0000	1,187.7338	1,187.7338	0.3603	0.0000	1,196.7403
<b>Maximum</b>	<b>0.6310</b>	<b>6.4320</b>	<b>3.9016</b>	<b>0.0122</b>	<b>0.6136</b>	<b>0.2291</b>	<b>0.8426</b>	<b>0.0794</b>	<b>0.2107</b>	<b>0.2901</b>	<b>0.0000</b>	<b>1,187.7338</b>	<b>1,187.7338</b>	<b>0.3603</b>	<b>0.0000</b>	<b>1,196.7403</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\_Planting and Erosion Control - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	8.3900e-003	0.0466	0.0756	3.3000e-004	0.0259	2.1000e-004	0.0261	6.9500e-003	2.0000e-004	7.1500e-003		33.4899	33.4899	1.0700e-003		33.5166
<b>Total</b>	<b>8.9500e-003</b>	<b>0.0466</b>	<b>0.0757</b>	<b>3.3000e-004</b>	<b>0.0259</b>	<b>2.1000e-004</b>	<b>0.0261</b>	<b>6.9500e-003</b>	<b>2.0000e-004</b>	<b>7.1500e-003</b>		<b>33.4900</b>	<b>33.4900</b>	<b>1.0700e-003</b>	<b>0.0000</b>	<b>33.5166</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	8.3900e-003	0.0466	0.0756	3.3000e-004	0.0259	2.1000e-004	0.0261	6.9500e-003	2.0000e-004	7.1500e-003		33.4899	33.4899	1.0700e-003		33.5166
<b>Total</b>	<b>8.9500e-003</b>	<b>0.0466</b>	<b>0.0757</b>	<b>3.3000e-004</b>	<b>0.0259</b>	<b>2.1000e-004</b>	<b>0.0261</b>	<b>6.9500e-003</b>	<b>2.0000e-004</b>	<b>7.1500e-003</b>		<b>33.4900</b>	<b>33.4900</b>	<b>1.0700e-003</b>	<b>0.0000</b>	<b>33.5166</b>

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

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

### 3.0 Construction Detail

#### Construction Phase

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

Acres of Grading (Site Preparation Phase): 7.5

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

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

**3.1 Mitigation Measures Construction**

**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	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.5990	6.4051	3.6691	0.0115		0.2285	0.2285		0.2103	0.2103		1,109.0426	1,109.0426	0.3587		1,118.0097
<b>Total</b>	<b>0.5990</b>	<b>6.4051</b>	<b>3.6691</b>	<b>0.0115</b>	<b>0.5303</b>	<b>0.2285</b>	<b>0.7588</b>	<b>0.0573</b>	<b>0.2103</b>	<b>0.2675</b>		<b>1,109.0426</b>	<b>1,109.0426</b>	<b>0.3587</b>		<b>1,118.0097</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	lb/day										lb/day					
Hauling	3.4000e-004	0.0113	2.3000e-003	5.0000e-005	1.1700e-003	2.0000e-005	1.1900e-003	3.2000e-004	2.0000e-005	3.4000e-004		5.5064	5.5064	1.2000e-004		5.5093
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0317	0.0155	0.2302	7.3000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.5000e-004	0.0222		73.1849	73.1849	1.4500e-003		73.2212
<b>Total</b>	<b>0.0320</b>	<b>0.0269</b>	<b>0.2325</b>	<b>7.8000e-004</b>	<b>0.0833</b>	<b>5.1000e-004</b>	<b>0.0838</b>	<b>0.0221</b>	<b>4.7000e-004</b>	<b>0.0226</b>		<b>78.6913</b>	<b>78.6913</b>	<b>1.5700e-003</b>		<b>78.7306</b>

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

**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	lb/day										lb/day					
Fugitive Dust					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.5990	6.4051	3.6691	0.0115		0.2285	0.2285		0.2103	0.2103	0.0000	1,109.0426	1,109.0426	0.3587		1,118.0097
<b>Total</b>	<b>0.5990</b>	<b>6.4051</b>	<b>3.6691</b>	<b>0.0115</b>	<b>0.5303</b>	<b>0.2285</b>	<b>0.7588</b>	<b>0.0573</b>	<b>0.2103</b>	<b>0.2675</b>	<b>0.0000</b>	<b>1,109.0426</b>	<b>1,109.0426</b>	<b>0.3587</b>		<b>1,118.0097</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	lb/day										lb/day					
Hauling	3.4000e-004	0.0113	2.3000e-003	5.0000e-005	1.1700e-003	2.0000e-005	1.1900e-003	3.2000e-004	2.0000e-005	3.4000e-004		5.5064	5.5064	1.2000e-004		5.5093
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0317	0.0155	0.2302	7.3000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.5000e-004	0.0222		73.1849	73.1849	1.4500e-003		73.2212
<b>Total</b>	<b>0.0320</b>	<b>0.0269</b>	<b>0.2325</b>	<b>7.8000e-004</b>	<b>0.0833</b>	<b>5.1000e-004</b>	<b>0.0838</b>	<b>0.0221</b>	<b>4.7000e-004</b>	<b>0.0226</b>		<b>78.6913</b>	<b>78.6913</b>	<b>1.5700e-003</b>		<b>78.7306</b>

**4.0 Operational Detail - Mobile**

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

**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.3900e-003	0.0466	0.0756	3.3000e-004	0.0259	2.1000e-004	0.0261	6.9500e-003	2.0000e-004	7.1500e-003		33.4899	33.4899	1.0700e-003		33.5166
Unmitigated	8.3900e-003	0.0466	0.0756	3.3000e-004	0.0259	2.1000e-004	0.0261	6.9500e-003	2.0000e-004	7.1500e-003		33.4899	33.4899	1.0700e-003		33.5166

**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\_Planting and Erosion Control - Placer County APCD Air District, Summer

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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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	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

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

**Mitigated**

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

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
Unmitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

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

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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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**

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

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

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

Equipment Type	Number
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**11.0 Vegetation**

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

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

**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\_Rocky Ridge Undercrossing - Placer County APCD Air District, Summer

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

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	1.9131	18.7702	23.3791	0.0410	0.1136	0.8768	0.9904	0.0308	0.8174	0.8482	0.0000	3,969.0525	3,969.0525	1.0473	0.0000	3,995.2354
<b>Maximum</b>	<b>1.9131</b>	<b>18.7702</b>	<b>23.3791</b>	<b>0.0410</b>	<b>0.1136</b>	<b>0.8768</b>	<b>0.9904</b>	<b>0.0308</b>	<b>0.8174</b>	<b>0.8482</b>	<b>0.0000</b>	<b>3,969.0525</b>	<b>3,969.0525</b>	<b>1.0473</b>	<b>0.0000</b>	<b>3,995.2354</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	lb/day										lb/day					
2023	1.9131	18.7702	23.3791	0.0410	0.1136	0.8768	0.9904	0.0308	0.8174	0.8482	0.0000	3,969.0525	3,969.0525	1.0473	0.0000	3,995.2354
<b>Maximum</b>	<b>1.9131</b>	<b>18.7702</b>	<b>23.3791</b>	<b>0.0410</b>	<b>0.1136</b>	<b>0.8768</b>	<b>0.9904</b>	<b>0.0308</b>	<b>0.8174</b>	<b>0.8482</b>	<b>0.0000</b>	<b>3,969.0525</b>	<b>3,969.0525</b>	<b>1.0473</b>	<b>0.0000</b>	<b>3,995.2354</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\_Rocky Ridge Undercrossing - Placer County APCD Air District, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	8.3900e-003	0.0466	0.0756	3.3000e-004	0.0259	2.1000e-004	0.0261	6.9500e-003	2.0000e-004	7.1500e-003		33.4899	33.4899	1.0700e-003		33.5166
<b>Total</b>	<b>8.9500e-003</b>	<b>0.0466</b>	<b>0.0757</b>	<b>3.3000e-004</b>	<b>0.0259</b>	<b>2.1000e-004</b>	<b>0.0261</b>	<b>6.9500e-003</b>	<b>2.0000e-004</b>	<b>7.1500e-003</b>		<b>33.4900</b>	<b>33.4900</b>	<b>1.0700e-003</b>	<b>0.0000</b>	<b>33.5166</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-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
Mobile	8.3900e-003	0.0466	0.0756	3.3000e-004	0.0259	2.1000e-004	0.0261	6.9500e-003	2.0000e-004	7.1500e-003		33.4899	33.4899	1.0700e-003		33.5166
<b>Total</b>	<b>8.9500e-003</b>	<b>0.0466</b>	<b>0.0757</b>	<b>3.3000e-004</b>	<b>0.0259</b>	<b>2.1000e-004</b>	<b>0.0261</b>	<b>6.9500e-003</b>	<b>2.0000e-004</b>	<b>7.1500e-003</b>		<b>33.4900</b>	<b>33.4900</b>	<b>1.0700e-003</b>	<b>0.0000</b>	<b>33.5166</b>

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

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

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

**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**

**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	lb/day										lb/day					
Off-Road	1.8716	18.3726	23.0790	0.0389		0.8758	0.8758		0.8166	0.8166		3,755.9054	3,755.9054	1.0417		3,781.9488
<b>Total</b>	<b>1.8716</b>	<b>18.3726</b>	<b>23.0790</b>	<b>0.0389</b>		<b>0.8758</b>	<b>0.8758</b>		<b>0.8166</b>	<b>0.8166</b>		<b>3,755.9054</b>	<b>3,755.9054</b>	<b>1.0417</b>		<b>3,781.9488</b>

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

**3.2 Building Construction - 2023**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.2900e-003	0.0425	8.6300e-003	2.0000e-004	4.3700e-003	8.0000e-005	4.4500e-003	1.2000e-003	8.0000e-005	1.2800e-003		20.6489	20.6489	4.5000e-004		20.6600
Vendor	8.5300e-003	0.3396	0.0614	1.1400e-003	0.0271	3.7000e-004	0.0275	7.8000e-003	3.5000e-004	8.1500e-003		119.3134	119.3134	3.6800e-003		119.4054
Worker	0.0317	0.0155	0.2302	7.3000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.5000e-004	0.0222		73.1849	73.1849	1.4500e-003		73.2212
<b>Total</b>	<b>0.0415</b>	<b>0.3976</b>	<b>0.3001</b>	<b>2.0700e-003</b>	<b>0.1136</b>	<b>9.4000e-004</b>	<b>0.1145</b>	<b>0.0308</b>	<b>8.8000e-004</b>	<b>0.0317</b>		<b>213.1471</b>	<b>213.1471</b>	<b>5.5800e-003</b>		<b>213.2866</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8716	18.3726	23.0790	0.0389		0.8758	0.8758		0.8166	0.8166	0.0000	3,755.9054	3,755.9054	1.0417		3,781.9488
<b>Total</b>	<b>1.8716</b>	<b>18.3726</b>	<b>23.0790</b>	<b>0.0389</b>		<b>0.8758</b>	<b>0.8758</b>		<b>0.8166</b>	<b>0.8166</b>	<b>0.0000</b>	<b>3,755.9054</b>	<b>3,755.9054</b>	<b>1.0417</b>		<b>3,781.9488</b>

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

**3.2 Building Construction - 2023**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	1.2900e-003	0.0425	8.6300e-003	2.0000e-004	4.3700e-003	8.0000e-005	4.4500e-003	1.2000e-003	8.0000e-005	1.2800e-003		20.6489	20.6489	4.5000e-004		20.6600
Vendor	8.5300e-003	0.3396	0.0614	1.1400e-003	0.0271	3.7000e-004	0.0275	7.8000e-003	3.5000e-004	8.1500e-003		119.3134	119.3134	3.6800e-003		119.4054
Worker	0.0317	0.0155	0.2302	7.3000e-004	0.0822	4.9000e-004	0.0826	0.0218	4.5000e-004	0.0222		73.1849	73.1849	1.4500e-003		73.2212
<b>Total</b>	<b>0.0415</b>	<b>0.3976</b>	<b>0.3001</b>	<b>2.0700e-003</b>	<b>0.1136</b>	<b>9.4000e-004</b>	<b>0.1145</b>	<b>0.0308</b>	<b>8.8000e-004</b>	<b>0.0317</b>		<b>213.1471</b>	<b>213.1471</b>	<b>5.5800e-003</b>		<b>213.2866</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	8.3900e-003	0.0466	0.0756	3.3000e-004	0.0259	2.1000e-004	0.0261	6.9500e-003	2.0000e-004	7.1500e-003		33.4899	33.4899	1.0700e-003		33.5166
Unmitigated	8.3900e-003	0.0466	0.0756	3.3000e-004	0.0259	2.1000e-004	0.0261	6.9500e-003	2.0000e-004	7.1500e-003		33.4899	33.4899	1.0700e-003		33.5166

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

5.0 Energy Detail

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

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

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**5.2 Energy by Land Use - NaturalGas**

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
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
<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>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
Unmitigated	5.6000e-004	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005

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**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	5.6000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	3.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000		5.0000e-005	5.0000e-005	0.0000		6.0000e-005
<b>Total</b>	<b>5.6000e-004</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>5.0000e-005</b>	<b>5.0000e-005</b>	<b>0.0000</b>		<b>6.0000e-005</b>

**7.0 Water Detail**

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

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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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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