

Daily Emission Estimates for -> Big Chico Creek Manzanita and Vallombrosa Erosion Repair Site																
Project Phases (Pounds)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	PM10 (lbs/day)	Exhaust	Fugitive Dust	PM10 (lbs/day)	PM2.5 (lbs/day)	Exhaust	PM2.5 (lbs/day)	Fugitive Dust	SOx (lbs/day)	CO2 (lbs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (lbs/day)
Grubbing/Land Clearing	0.73	7.12	4.47	8.20	0.20	8.00	1.84	0.17	1.66	0.02	1,956.72	0.58	0.02	1,977.04		
Grading/Excavation	1.23	11.69	9.12	8.44	0.44	8.00	2.02	0.36	1.66	0.03	3,258.56	0.84	0.05	3,295.16		
Drainage/Utilities/Sub-Grade	0.71	7.49	4.16	8.22	0.22	8.00	1.84	0.17	1.66	0.02	2,136.72	0.58	0.02	2,158.40		
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Maximum (pounds/day)	1.23	11.69	9.12	8.44	0.44	8.00	2.02	0.36	1.66	0.03	3,258.56	0.84	0.05	3,295.16		
Total (tons/construction project)	0.02	0.18	0.12	0.16	0.01	0.15	0.04	0.00	0.03	0.00	49.43	0.01	0.00	49.97		
Notes: Project Start Year -> 2026																
Project Length (months) -> 2																
Total Project Area (acres) -> 1																
Maximum Area Disturbed/Day (acres) -> 0																
Water Truck Used? -> No																
Total Material Imported/Exported Volume (yd³/day)																
Daily VMT (miles/day)																
Phase Soil Asphalt Soil Hauling Asphalt Hauling Worker Commute Water Truck																
Grubbing/Land Clearing 0 0 0 0 200 0																
Grading/Excavation 10 0 30 0 800 0																
Drainage/Utilities/Sub-Grade 0 0 0 0 560 0																
Paving 0 0 0 0 400 0																
PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.																
Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.																
CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1, 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.																
Total Emission Estimates by Phase for -> Big Chico Creek Manzanita and Vallombrosa Erosion Repair Site																
Project Phases	ROG (tons/phase)	CO (tons/phase)	NOx (tons/phase)	PM10 (tons/phase)	PM10 (tons/phase)	PM10 (tons/phase)	PM2.5 (tons/phase)	PM2.5 (tons/phase)	PM2.5 (tons/phase)	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase)		
(Tons for all except CO2e. Metric tonnes for CO2e)																
Grubbing/Land Clearing	0.00		0.01	0.02	0.00	0.02	0.00	0.00	0.00	0.00	4.30	0.00	0.00	3.95		
Grading/Excavation	0.01	0.10	0.08	0.07	0.00	0.07	0.02	0.00	0.01	0.00	28.68	0.01	0.00	26.31		
Drainage/Utilities/Sub-Grade	0.01	0.06	0.03	0.06	0.00	0.06	0.01	0.00	0.01	0.00	16.45	0.00	0.00	15.08		
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Maximum (tons/phase)	0.01	0.10	0.08	0.07	0.00	0.07	0.02	0.00	0.01	0.00	28.68	0.01	0.00	26.31		
Total (tons/construction project)	0.02	0.18	0.12	0.16	0.01	0.15	0.04	0.00	0.03	0.00	49.43	0.01	0.00	45.33		
PM10 and PM2.5 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.																
Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns G and H. Total PM2.5 emissions shown in Column I are the sum of exhaust and fugitive dust emissions shown in columns J and K.																
CO2e emissions are estimated by multiplying mass emissions for each GHG by its global warming potential (GWP), 1, 25 and 298 for CO2, CH4 and N2O, respectively. Total CO2e is then estimated by summing CO2e estimates over all GHGs.																
The CO2e emissions are reported as metric tons per phase.																