Road Construction Emissions Model, Version 9.0.1

Daily Emission Estimates for -> Big Chico Creek Rose Ave				Total	Exhaust	Fugitive Dust	Total	Exhaust	Fugitive Dust					
Project Phases (Pounds)	ROG (lbs/day)	CO (Ibs/day)	NOx (lbs/day)	PM10 (lbs/day)	PM10 (lbs/day)	PM10 (lbs/day)	PM2.5 (lbs/day)	PM2.5 (Ibs/day)	PM2.5 (lbs/day)	SOx (Ibs/day)	CO2 (Ibs/day)	CH4 (lbs/day)	N2O (lbs/day)	CO2e (Ibs/day)
Grubbing/Land Clearing	0.73	7.15	4.71	8.20	0.20	8.00	1.84	0.18	1.66	0.02	2,066.56	0.58	0.04	2,092.03
Grading/Excavation	1.17	11.38	8.75	8.42	0.42	8.00	2.01	0.35	1.66	0.03	3,208.05	0.84	0.05	3,244.39
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)	1.17	11.38	8.75	8.42	0.42	8.00	2.01	0.35	1.66	0.03	3,208.05	0.84	0.05	3,244.39
Total (tons/construction project)	0.02	0.17	0.12	0.16	0.01	0.15	0.04	0.00	0.03	0.00	49.23	0.01	0.00	49.77
Notes: Project Start Year ->	2026													
Project Length (months) ->	· 2													
Total Project Area (acres) ->	• 0													
Maximum Area Disturbed/Day (acres) ->	• 0													
Water Truck Used? ->	No						_							
	Total Material Im			Daily VMT	(miloc/dov)									
	Volume (yd ³ /day)		Daily Vivi		(miles/day)									
Phase	e Soil	Asphalt	Soil Hauling	Asphalt Hauling	Worker Commute	Water Truck								
Grubbing/Land Clearing	1	0	30	0	200	0								
Grading/Excavation	6	0	30	0	800	0								
Drainage/Utilities/Sub-Grade	0	0	0	0	560	0								
Paving		0	0	0	400	0								
PM10 and PM2.5 estimates assume 50% control of fugitive dust from wate	•													
Total PM10 emissions shown in column F are the sum of exhaust and fugi	itive dust emissions :	shown in columns (and H. Total PM2.	i emissions shown in	n Column I are the su	um of exhaust and f	ugitive dust emissio	ns shown in column	s J and K.					
CO2e emissions are estimated by multiplying mass emissions for each GH	HG by its global warr	ning potential (CW	A 05 1 000 f-	r CO2_CH4 and N20	O reconnectively Total				all GHGs					
	no by its global wall	ning potential (Gwi	r), 1 , 25 and 298 to	002, 0114 and 1120	o, respectively. Total	CO2e is then estin	nated by summing C	O2e estimates over	an onos.					
	, ,		7), 1 , 25 and 298 to	-			, ,							
Total Emission Estimates by Phase for ->	, ,		7), 1 , 25 and 298 to	Total	Exhaust	Fugitive Dust	Total	Exhaust	Fugitive Dust					
Project Phases	, ,		NOx (tons/phase)	-	Exhaust	Fugitive Dust	Total		Fugitive Dust	SOx (tons/phase)	CO2 (tons/phase)	CH4 (tons/phase)	N2O (tons/phase)	CO2e (MT/phase
Total Emission Estimates by Phase for -> Project Phases Tons for all except CO2e. Metric tonnes for CO2e) Grubbing/Land Clearing	Big Chico Creek Rose	Ave	,	Total	Exhaust	Fugitive Dust	Total	Exhaust	Fugitive Dust	SOx (tons/phase)	CO2 (tons/phase) 4.55	CH4 (tons/phase) 0.00	N2O (tons/phase)	CO2e (MT/phase 4.18
Project Phases Tons for all except CO2e. Metric tonnes for CO2e)	 Big Chico Creek Rose ROG (tons/phase) 	Ave CO (tons/phase)	NOx (tons/phase)	Total PM10 (tons/phase)	Exhaust PM10 (tons/phase)	Fugitive Dust PM10 (tons/phase)	Total PM2.5 (tons/phase)	Exhaust PM2.5 (tons/phase)	Fugitive Dust PM2.5 (tons/phase)					
Project Phases Tons for all except CO2e. Metric tonnes for CO2e) Grubbing/Land Clearing	 Big Chico Creek Rose ROG (tons/phase) 0.00 	Ave CO (tons/phase) 0.02	NOx (tons/phase)	Total PM10 (tons/phase) 0.02	Exhaust PM10 (tons/phase) 0.00	Fugitive Dust PM10 (tons/phase) 0.02	Total PM2.5 (tons/phase) 0.00	Exhaust PM2.5 (tons/phase) 0.00	Fugitive Dust PM2.5 (tons/phase) 0.00	0.00	4.55	0.00	0.00	4.18
Project Phases (Tons for all except CO2e, Metric tonnes for CO2e) Srubbing(Land Clearing Grading/Excavation	 Big Chico Creek Rose ROG (tons/phase) 0.00 0.01 	Ave CO (tons/phase) 0.02 0.10	NOx (tons/phase) 0.01 0.08	Total PM10 (tons/phase) 0.02 0.07	Exhaust PM10 (tons/phase) 0.00 0.00	Fugitive Dust PM10 (tons/phase) 0.02 0.07	Total PM2.5 (tons/phase) 0.00 0.02	Exhaust PM2.5 (tons/phase) 0.00 0.00	Fugitive Dust PM2.5 (tons/phase) 0.00 0.01	0.00	4.55 28.23	0.00 0.01	0.00	4.18 25.90
Project Phases Tons for all except CO2e. Metric tonnes for CO2e) Grubbing/Land Clearing Grading/Excavation Drainage/Utilities/Sub-Grade	 Big Chico Creek Rose ROG (tons/phase) 0.00 0.01 0.01 	Ave CO (tons/phase) 0.02 0.10 0.06	NOx (tons/phase) 0.01 0.08 0.03	Total PM10 (tons/phase) 0.02 0.07 0.06	Exhaust PM10 (tons/phase) 0.00 0.00 0.00	Fugitive Dust PM10 (tons/phase) 0.02 0.07 0.06	Total PM2.5 (tons/phase) 0.00 0.02 0.01	Exhaust PM2.5 (tons/phase) 0.00 0.00 0.00	Fugitive Dust PM2.5 (tons/phase) 0.00 0.01 0.01	0.00 0.00 0.00	4.55 28.23 16.45	0.00 0.01 0.00	0.00 0.00 0.00	4.18 25.90 15.08
Project Phases Tons for all except CO2e. Metric tonnes for CO2e) Grubbing/Land Clearing Grading/Excavation Drainage/Utilities/Sub-Grade Paving	 Big Chico Creek Rose ROG (tons/phase) 0.00 0.01 0.01 0.00 	Ave CO (tons/phase) 0.02 0.10 0.06 0.00	NOx (tons/phase) 0.01 0.08 0.03 0.00	Total PM10 (tons/phase) 0.02 0.07 0.06 0.00	Exhaust PM10 (tons/phase) 0.00 0.00 0.00 0.00 0.00	Fugitive Dust PM10 (tons/phase) 0.02 0.07 0.06 0.00	Total PM2.5 (tons/phase) 0.00 0.02 0.01 0.00	Exhaust PM2.5 (tons/phase) 0.00 0.00 0.00 0.00	Fugitive Dust PM2.5 (tons/phase) 0.00 0.01 0.01 0.00	0.00 0.00 0.00 0.00 0.00	4.55 28.23 16.45 0.00	0.00 0.01 0.00 0.00	0.00 0.00 0.00 0.00 0.00	4.18 25.90 15.08 0.00
Project Phases Tons for all except CO2e. Metric tonnes for CO2e) Grubbing/Land Clearing Grading/Excavation Drainage/Utilities/Sub-Grade Paving Maximum (tons/phase)	 Big Chico Creek Rose ROG (tons/phase) 0.00 0.01 0.01 0.01 0.01 0.02 	Ave CO (tons/phase) 0.02 0.10 0.06 0.00 0.10 0.17	NOx (tons/phase) 0.01 0.08 0.03 0.00 0.08 0.12	Total PM10 (tons/phase) 0.02 0.07 0.06 0.00 0.07 0.16	Exhaust PM10 (tons/phase) 0.00 0.00 0.00 0.00 0.00 0.01	Fugitive Dust PM10 (tons/phase) 0.02 0.07 0.06 0.00 0.07	Total PM2.5 (tons/phase) 0.00 0.02 0.01 0.00 0.02	Exhaust PM2.5 (tons/phase) 0.00 0.00 0.00 0.00 0.00	Fugitive Dust PM2.5 (tons/phase) 0.00 0.01 0.01 0.00 0.01	0.00 0.00 0.00 0.00 0.00	4.55 28.23 16.45 0.00 28.23	0.00 0.01 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	4.18 25.90 15.08 0.00 25.90
Project Phases Tons for all except CO2e. Metric tonnes for CO2e) Srubbing/Land Clearing Grading/Excavation Drainage/Utilities/Sub-Grade Paving Aaximum (tons/phase) Total (tons/construction project)	Big Chico Creek Rose ROG (tons/phase) 0.00 0.01 0.01 0.00 0.01 0.02 tering and associated	Ave CO (tons/phase) 0.02 0.10 0.06 0.00 0.10 0.17 dust control measu	NOx (tons/phase) 0.01 0.08 0.03 0.00 0.08 0.12 ures if a minimum nu	Total PM10 (tons/phase) 0.02 0.07 0.06 0.00 0.07 0.16 Imber of water trucks	Exhaust PM10 (tons/phase) 0.00 0.00 0.00 0.00 0.01 s are specified.	Fugitive Dust PM10 (tons/phase) 0.02 0.07 0.06 0.00 0.07 0.15	Total PM2.5 (tons/phase) 0.00 0.02 0.01 0.00 0.02 0.02 0.04	Exhaust PM2.5 (tons/phase) 0.00 0.00 0.00 0.00 0.00 0.00	Fugitive Dust PM2.5 (tons/phase) 0.00 0.01 0.01 0.00 0.01 0.03	0.00 0.00 0.00 0.00 0.00	4.55 28.23 16.45 0.00 28.23	0.00 0.01 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	4.18 25.90 15.08 0.00 25.90

The CO2e emissions are reported as metric tons per phase.