

Table A-5
Construction Truck Trip Emissions
Clearwater Port Project

Construction Phase	Vehicle Class	No. of Trucks per day	Speed (mph)	VMT (mi/vehicle day)	PM10														Emissions, lbs/day				Total Emissions, tons										
					CO		NO _x			Running Exhaust		Hot-Spot		Resting Loss		Running Evaporative		Diurnal Evaporative		SO _x		Running Exhaust		Tire Wear		Brake Wear							
					Running Exhaust (gpm)	Start-Up (g/star)	Running Exhaust (gpm)	Start-Up (g/star)	Running Exhaust (gpm)	Start-Up (g/star)	Hot-Spot (g/hr)	Resting Loss (g/hr)	Running Evaporative (g/hr)	Diurnal Evaporative (g/hr)	Running Exhaust (gpm)	Start-Up (g/star)	Running Exhaust (gpm)	Start-Up (g/star)	Running Exhaust (gpm)	Start-Up (g/star)	Running Exhaust (gpm)	Start-Up (g/star)	Running Exhaust (gpm)	Start-Up (g/star)	Running Exhaust (gpm)	Start-Up (g/star)	CO	NO _x	VOCs	SO _x	PM10	Construction Days	CO
Onshore Construction																																	
Receiving/Metering Station Construction	Pickup Truck - LDT	2	35	40	3.07	9.958	0.322	0.457	0.111	0.766	0.264	0.031	0.06	0.065	0.004	0.002	0.01	0.011	0.008	0.013	0.63	0.06	0.04	0.00	0.01	48	0.02	0.00	0.00107	1.74E-05	0.00013		
	Gang Truck - LDT	1	35	40	3.07	9.958	0.322	0.457	0.111	0.766	0.264	0.031	0.06	0.065	0.004	0.002	0.01	0.011	0.008	0.013	0.31	0.03	0.02	0.00	0.00	48	0.01	0.00	0.00053	8.68E-06	0.00007		
Subtotal																																	
Installation of Nitrogen Plant	Pickup Truck - LDT	3	35	40	3.07	9.958	0.322	0.457	0.111	0.766	0.264	0.031	0.06	0.065	0.004	0.002	0.01	0.011	0.008	0.013	0.94	0.09	0.07	0.00	0.01	45	0.02	0.00	0.00150	2.44E-05	0.00019		
	Gang Truck - LDT	2	35	40	3.07	9.958	0.322	0.457	0.111	0.766	0.264	0.031	0.06	0.065	0.004	0.002	0.01	0.011	0.008	0.013	0.63	0.06	0.04	0.00	0.01	45	0.01	0.00	0.00100	1.63E-05	0.00013		
Subtotal																																	
Subtotal Mandalay Receiving Station																																	
Onshore Pipeline Construction																																	
Mandalay to SCGC Center Road Station	Pickup Truck - LDT	6	35	40	3.07	9.958	0.322	0.457	0.111	0.766	0.264	0.031	0.06	0.065	0.004	0.002	0.01	0.011	0.008	0.013	1.89	0.18	0.13	0.00	0.02	96	0.09	0.01	0.00641	1.04E-04	0.00080		
	Gang Truck - LDT	3	35	40	3.07	9.958	0.322	0.457	0.111	0.766	0.264	0.031	0.06	0.065	0.004	0.002	0.01	0.011	0.008	0.013	0.94	0.09	0.07	0.00	0.01	96	0.05	0.00	0.00320	5.21E-05	0.00040		
	Wafer Truck - MDT	2	35	40	1.334	6.17	0.159	0.159	0.014	0.205	0.012	0.013	0.014	0.205	0.012	0.013	0.014	0.205	0.012	0.013	0.24	1.09	0.03	0.00	0.04	96	0.01	0.05	0.00135	1.19E-04	0.00195		
	Room Truck - HDY	2	35	40	4.216	13.418	0.823	0.823	0.017	0.465	0.036	0.028	0.017	0.465	0.036	0.028	0.017	0.465	0.036	0.028	0.74	2.37	0.15	0.00	0.09	96	0.04	0.11	0.00697	1.44E-04	0.00448		
	Asphalt Trucks - MDT	2	35	40	1.334	6.17	0.159	0.159	0.014	0.205	0.012	0.013	0.014	0.205	0.012	0.013	0.014	0.205	0.012	0.013	0.24	1.09	0.03	0.00	0.04	96	0.01	0.05	0.00135	1.19E-04	0.00195		
	Pipe Hauling Trucks - HDY	2	35	40	4.216	13.418	0.823	0.823	0.017	0.465	0.036	0.028	0.017	0.465	0.036	0.028	0.017	0.465	0.036	0.028	0.74	2.37	0.15	0.00	0.09	96	0.04	0.11	0.00697	1.44E-04	0.00448		
	Vacuum Truck - MDT	1	35	40	1.334	6.17	0.159	0.159	0.014	0.205	0.012	0.013	0.014	0.205	0.012	0.013	0.014	0.205	0.012	0.013	0.12	0.54	0.01	0.00	0.02	96	0.01	0.03	0.00067	5.93E-05	0.00097		
	Trucks for Disposal of Excavated Fill - HDY	50	35	40	4.216	13.418	0.823	0.823	0.017	0.465	0.036	0.028	0.017	0.465	0.036	0.028	0.017	0.465	0.036	0.028	18.59	59.16	3.63	0.07	2.33	96	0.89	2.84	0.17418	3.60E-03	0.11196		
Subtotal																																	
Line 324 Pipeline Loop - VCAB																																	
Pickup Truck - LDT	4	35	40	3.07	9.958	0.322	0.457	0.111	0.766	0.264	0.031	0.06	0.065	0.004	0.002	0.01	0.011	0.008	0.013	1.26	0.12	0.09	0.00	0.01	134.064	0.08	0.01	0.00296	0.69E-05	0.00075			
Gang Truck - LDT	2	35	40	3.07	9.958	0.322	0.457	0.111	0.766	0.264	0.031	0.06	0.065	0.004	0.002	0.01	0.011	0.008	0.013	0.63	0.06	0.04	0.00	0.01	134.064	0.04	0.00	0.00296	4.85E-05	0.00037			
Wafer Truck - MDT	2	35	40	1.334	6.17	0.159	0.159	0.014	0.205	0.012	0.013	0.014	0.205	0.012	0.013	0.014	0.205	0.012	0.013	0.24	1.09	0.03	0.00	0.04	134.064	0.02	0.07	0.00188	1.66E-04	0.00272			
Room Truck - HDY	1	35	40	4.216	13.418	0.823	0.823	0.017	0.465	0.036	0.028	0.017	0.465	0.036	0.028	0.017	0.465	0.036	0.028	0.37	1.18	0.07	0.00	0.05	134.064	0.02	0.08	0.00496	1.00E-04	0.00313			
Asphalt Trucks - MDT	2	35	40	1.334	6.17	0.159	0.159	0.014	0.205	0.012	0.013	0.014	0.205	0.012	0.013	0.014	0.205	0.012	0.013	0.24	1.09	0.03	0.00	0.04	134.064	0.02	0.07	0.00188	1.66E-04	0.00272			
Pipe Hauling Trucks - HDY	2	35	40	4.216	13.418	0.823	0.823	0.017	0.465	0.036	0.028	0.017	0.465	0.036	0.028	0.017	0.465	0.036	0.028	0.74	2.37	0.15	0.00	0.09	134.064	0.05	0.16	0.00973	2.01E-04	0.00625			
Vacuum Truck - MDT	1	35	40	1.334	6.17	0.159	0.159	0.014	0.205	0.012	0.013	0.014	0.205	0.012	0.013	0.014	0.205	0.012	0.013	0.12	0.54	0.01	0.00	0.02	134.064	0.01	0.04	0.00094	8.28E-05	0.00136			
Trucks for Disposal of Excavated Fill - HDY	32	35	40	4.216	13.418	0.823	0.823	0.017	0.465	0.036	0.028	0.017	0.465	0.036	0.028	0.017	0.465	0.036	0.028	11.90	37.86	2.32	0.05	1.49	134.064	0.80	2.54	0.15568	3.22E-03	0.10007			
Subtotal																																	
Line 324 Pipeline Loop - SCAB																																	
Pickup Truck - LDT	4	35	40	3.772	10.985	0.355	0.49	0.149	0.856	0.273	0.042	0.062	0.094	0.004	0.003	0.011	0.014	0.008	0.013	1.52	0.13	0.11	0.00	0.01	33.936	0.03	0.00	0.00185	2.48E-05	0.00020			
Gang Truck - LDT	2	35	40	3.772	10.985	0.355	0.49	0.149	0.856	0.273	0.042	0.062	0.094	0.004	0.003	0.011	0.014	0.008	0.013	0.76	0.07	0.05	0.00	0.01	33.936	0.01	0.00	0.00093	1.24E-05	0.00010			
Wafer Truck - MDT	2	35	40	1.633	6.621	0.198	0.198	0.014	0.239	0.012	0.013	0.014	0.239	0.012	0.013	0.014	0.239	0.012	0.013	0.29	1.17	0.03	0.00	0.05	33.936	0.00	0.02	0.00059	4.19E-05	0.00079			
Room Truck - HDY	1	35	40	5.001	15.07	0.967	0.967	0.017	0.55	0.036	0.028	0.017	0.55	0.036	0.028	0.017	0.55	0.036	0.028	0.44	1.33	0.09	0.00	0.05	33.936	0.01	0.02	0.00145	2.54E-05	0.00092			
Asphalt Trucks - MDT	2	35	40	1.633	6.621	0.198	0.198	0.014	0.239	0.012	0.013	0.014	0.239	0.012	0.013	0.014	0.239	0.012	0.013	0.29	1.17	0.03	0.00	0.05	33.936	0.00	0.02	0.00059	4.19E-05	0.00079			
Pipe Hauling Trucks - HDY	2	35	40	5.001	15.07	0.967	0.967	0.017	0.55	0.036	0.028	0.017	0.55	0.036	0.028	0.017	0.55	0.036	0.028	0.88	2.66	0.17	0.00	0.11	33.936	0.01	0.05	0.00289	5.09E-05	0.00184			
Vacuum Truck - MDT	1	35	40	1.633	6.621	0.198	0.198	0.014	0.239	0.012	0.013	0.014	0.239	0.012	0.013	0.014	0.239	0.012	0.013	0.14	0.58	0.02	0.00	0.02	33.936	0.00	0.01	0.00030	2.09E-05	0.00040			
Trucks for Disposal of Excavated Fill - HDY	32	35	40	5.001	15.07	0.967	0.967	0.017	0.55	0.036	0.028	0.017	0.55	0.036	0.028	0.017	0.55	0.036	0.028	14.11	42.53	2.73	0.05	1.73	33.936	0.24	0.80	0.04630	8.14E-04	0.02940			
Subtotal																																	
Line 225 Pipeline Loop																																	
Pickup Truck - LDT	4	35	40	3.772	10.985	0.355	0.49	0.149	0.856	0.273	0.042	0.062	0.094	0.004	0.003	0.011	0.014	0.008	0.013	1.52	0.13	0.11	0.00	0.01	168	0.13	0.01	0.00916	1.23E-04	0.00097			
Gang Truck - LDT	2	35	40	3.772	10.985	0.355	0.49	0.149	0.856	0.273	0.042	0.062	0.094	0.004	0.003	0.011	0.014	0.008	0.013	0.76	0.07	0.05	0.00	0.01	168	0.06	0.01	0.00458	6.15E-05	0.00048			
Wafer Truck - MDT	2	35	40	1.633	6.621	0.198	0.198	0.014	0.239	0.012	0.013	0.014	0.239	0.012	0.013	0.014	0.239	0.012	0.013	0.29	1.17	0.03	0.00	0.05	168	0.02	0.10	0.00293	2.07E-04	0.00391			
Room Truck - HDY	1	35	40	5.001	15.07	0.967	0.967	0.017	0.55	0.036	0.028	0.017	0.55	0.036	0.028	0.017	0.55	0.036	0.028	0.44	1.33	0.09	0.00	0.05	168	0.04	0.11	0.00716	1.26E-04	0.00455			
Asphalt Trucks - MDT	2	35	40	1.633	6.621	0.198	0.198	0.014	0.239	0.012	0.013	0.014	0.239	0.012	0.013	0.014	0.239	0.012	0.013	0.29	1.17	0.03	0.00	0.05	168	0.02	0.10	0.00293	2.07E-04	0.00391			
Pipe Hauling Trucks - HDY	2	35	40	5.001	15.07	0.967	0.967	0.017	0.55	0.036	0.028	0.017	0																				