

INITIAL STUDY

APPENDIX E.2: TRANSPORTATION ENERGY CONSUMPTION WORKSHEETS

Construction Transportation Energy Worksheet

Emission Source	Emissions (MTCO ₂) ¹	
	Diesel-Powered	Gasoline-Powered
Demolition (2023)		
Off-Road	34.23	--
Hauling	21.79	--
Vendor	0.38	--
Worker	--	1.32
Excavation (2023)		
Off-Road	214.34	--
Hauling	1,188.94	--
Vendor	1.90	--
Worker	--	10.12
Foundation (2023)		
Off-Road	219.73	--
Hauling	0	--
Vendor	0	--
Worker	--	13.85
Building Construction (2023)		
Off-Road	57.13	--
Hauling	0	--
Vendor	69.28	--
Worker	--	71.76
Building Construction (2024)		
Off-Road	305.52	--
Hauling	0	--
Vendor	364.88	--
Worker	--	372.71
Building Construction (2025)		
Off-Road	45.50	--
Hauling	0	--
Vendor	53.34	--
Worker	--	53.58
Paving (2024)		
Off-Road	10.09	--
Hauling	0	--
Vendor	0	--
Worker	--	0.68
Architectural Coating (2024)		
Off-Road	12.12	--
Hauling	0	--
Vendor	0	--
Worker	--	18.89
Architectural Coating (2025)		
Off-Road	6.06	--
Hauling	0	--
Vendor	0	--
Worker	--	9.12
<i>Total Emissions in MTCO₂</i>	2,605.23	552.03
<i>Total Emissions in pounds CO₂²</i>	5,744,532.15	1,217,226.15
Total Fuel Consumption ³	259,464 gallons	62,103 gallons
<p>MTCO₂ = metric tons of carbon dioxide</p> <p>1 MTCO₂ emissions for each phase of construction taken from the CalEEMod "Annual" output sheets prepared for the Project (see Appendix A of the IS/MND).</p> <p>2 1 MT of CO₂ = 2,205 pounds of CO₂.</p> <p>3 Diesel fuel has a CO₂ factor of 22.14 pounds of CO₂ per 1 gallon of diesel fuel. Gasoline has a CO₂ factor of 19.6 pounds of CO₂ per 1 gallon of gasoline. Source: U.S. Energy Information Administration, Environment Carbon Dioxide Emissions Coefficients, Release date: February 2, 2016. Totals have been rounded to the nearest whole number.</p>		