



Appendix D

Energy Data

Construction Fuel Consumption

On-Site Diesel ¹ (off-road construction Equipment)	MTCO ₂ e	Gallons of Fuel ⁴	Current County Fuel	Percent
Demolition	13	1,264		
Site Preparation/Grading	7	666		
Building Construction	51	5,003		
Paving	12	1,136		
Architectural Coating	0	0		
Total	82	8,069	253,490,900	0.0032%

Off-Site Diesel ¹ (on-road construction trips)	MTCO ₂ e	Gallons of Fuel ⁴	Current County Fuel	Percent
Demolition	1	135		
Site Preparation/Grading	0	0		
Building Construction	3	322		
Paving	0	0		
Architectural Coating	0	0		
Total	5	457	253,490,900	0.0002%

Off-Site Gasoline ²	MTCO ₂ e	Gallons of Fuel ⁴	Current County Fuel	Percent
Demolition	1	66		
Site Preparation/Grading	1	141		
Building Construction	4	473		
Paving	0	50		
Architectural Coating	0	0		
Total	6	730	718,749,800	0.0001%

Total Diesel Fuel		8,526	253,490,900	0.0034%
Total Gasoline Fuel		730	718,749,800	0.0001%
Total Construction Fuel	93	9,256		

Construction Phase ³	Demolition Emissions (MTCO ₂ e)			Site Preparation Emissions (MTCO ₂ e)			Grading Emissions (MTCO ₂ e)		
	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gasoline (Worker)	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gasoline (Worker)	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gasoline (Worker)
2022	13	1	1	2	0	0	5	0	1
Total	13	1	1	2	0	0	5	0	1

Construction Phase ³	Infrastructure + Building Construction Emissions (MTCO ₂ e)			Paving Emissions (MTCO ₂ e)			Architectural Coating Emissions (MTCO ₂ e)		
	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gasoline (Worker)	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gasoline (Worker)	On-Site Diesel (Off-Road)	Off-Site Diesel (Hauling/Vendor)	Off-Site Gasoline (Worker)
2022	31	2	3						
2023	20	1	2	12	0	0	0	0	0
Total	51	3	4	12	0	0	0	0	0

Notes:

¹ Fuel used for off-road, hauling, and vendor trips assumed to be diesel.

² Fuel used for worker trips assumed to be gasoline.

³ MTCO₂e rates from CalEEMod (3.0 Construction Details).

⁴ For CO₂e emissions, see Chapter 13 (page 94); Conversion Ratios: Climate Registry, General Reporting Protocol, 2016.

Construction Water Energy

Daily Soil Disturbance ¹	1	acres	
Days of Soil Disturbance ²	25	days	
Water Concentration ³	3,020	gallons/acre	
Water Energy Intensity ⁴	11,110	kWh/MG	
Total Construction Water	0.04	million gallons	
Construction Water Energy	419	kWh	
	0.0004		253490900

Notes:

¹ Total daily acres disturbed from offroad equipment per CalEEMod (3.0 Construction Detail) and maximum SCAQMD LST values for soil-disturbing equipment.

² Number of days of construction with soil-disturbing equipment per CalEEMod (3.0 Construction Detail).

³ Water application rate per Air and Waste Management Association's Air Pollution Engineering Manual.

⁴ Water energy intensity factor for county subarea per CalEEMod User Guide, Appendix D, page D-343.