

Table 1 – Total Construction-Related Fuel Consumption

First Industrial Warehouse at Harley Knox Boulevard

Fuel	Consumption	
Diesel		
On-Road Construction Trips ¹	9,102	Gallons
Off-Road Construction Equipment ²	25,437	Gallons
Diesel Total	34,539	Gallons
Gasoline		
On-Road Construction Trips ¹	15,497	Gallons
Off-Road Construction Equipment ³	-	Gallons
Gasoline Total	15,497	Gallons

Notes:

1. On-road mobile source fuel use based on vehicle miles traveled (VMT) from CalEEMod for construction in 2022 and fleet-average fuel consumption in gallons per mile from EMFAC2017 web based data for Riverside County. See Table 2 for calculation details.
2. Off-road mobile source fuel usage based on a fuel usage rate of 0.05 gallons of diesel per horsepower (HP)-hour, based on SCAQMD CEQA Air Quality Handbook, Table A9-3E.
3. All emissions from off-road construction equipment were assumed to be diesel.

Table 2 – On-Road Construction Trip Estimates

First Industrial Warehouse at Harley Knox Boulevard

Trip Type	Trips	Trip length	Vehicle Miles Traveled (VMT)	Fuel Efficiency	Annual Fuel Usage ¹	
	(trips)	(miles)	(miles)	(mpg)	(Fuel)	(gallon)
Worker ^{2,3}	30,660	14.7	450,702	28.4	Gasoline	15,497
Vendor ⁴	11,490	6.9	79,281	9.2	Diesel	9,102
Hauling ⁵	0	20	0	7.1	Diesel	0

Notes:

1. On-road mobile source fuel use based on vehicle miles traveled (VMT) from CalEEMod output (See Air Quality/GHG Memo) for construction and fleet-average fuel consumption in gallons per mile from EMFAC2017 web based data for 2022 in Riverside County.
2. Worker trips were assumed to be 100% gasoline powered vehicles.
3. Per CalEEMod, worker Trips were assumed to be 50% LDA, 25% LDT1, and 25% LDT2.
4. Vendor trips were assumed to be 50% MHDT and 50% HHDT, split evenly between the MHDT and HHDT construction categories.
5. Per CalEEMod, hauling trips were assumed to be 100% HHDT.

Table 3 – Annual Energy Consumption from Operation

First Industrial Warehouse at Harley Knox Boulevard

Fuel Type	Energy Consumption	Units	Natural Gas	Units
Electricity				
Building ¹	461,951	kWh/year	318,685	kBTU/yr
Water ²	22,715	kWh/year		
EV Charging Stations ³	328,500	kWh/year		
Total Electricity	813,166	kWh/year		
Mobile⁴				
Gasoline	52,270	gallons/year		
Diesel	85,353	gallons/year		

Notes:

1. Building electricity use from CalEEMod output (See Air Quality/GHG Memo).
2. Calculated based on the Project's annual water consumption using CalEEMod SCAQMD energy intensity of 0.0111 kWh per gallon for supply, distribution, and treatment of water and 0.013021 kWh per gallon for supply, distribution, and treatment of water and wastewater treatment.
3. Two Electric Vehicle (EV) charging stations assumed. Per SCAQMD's Final Staff Report for Proposed Rule 2305 and Proposed Rule 316, May 2021, each charging station is assumed to have a 50 kW charger and daily usage is estimated at approximately 10 hours a day, or equal to approximately 450 kWh per day.
4. Mobile source fuel use based on annual vehicle miles traveled (VMT) from CalEEMod output for operational year 2023 and fleet-average fuel consumption in gallons per mile from EMFAC2017 web based data in Riverside County.