

Table 1 – Total Construction-Related Fuel Consumption

Avenue 50 Improvements

Fuel	Consumption	
Diesel		
On-Road Construction Trips ¹	16,789	Gallons
Off-Road Construction Equipment ²	131,287	Gallons
Diesel Total	148,076	Gallons
Gasoline		
On-Road Construction Trips ¹	14,275	Gallons
Off-Road Construction Equipment ³	-	Gallons
Gasoline Total	14,275	Gallons

Notes:

1. On-road mobile source fuel use based on vehicle miles traveled (VMT) from CalEEMod for construction in 2025 and fleet-average fuel consumption in gallons per mile from EMFAC2021 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

Avenue 50 Improvements

Trip Type	Trips	Trip length	Vehicle Miles Traveled (VMT)	Fuel Efficiency	Annual Fuel Usage ¹	
	(trips)	(miles)	(miles)	(mpg)	(Fuel)	(gallon)
Worker ^{2,3}	19,440	18.5	359,640	25.8	Gasoline	14,275
Vendor ⁴	12,240	10.2	124,848	7.7	Diesel	16,789
Hauling ⁵	0	20	0	6.3	Diesel	0

Notes:

1. On-road mobile source fuel use based on vehicle miles traveled (VMT) from CalEEMod (See Air Quality Memo) for construction and fleet-average fuel consumption in gallons per mile from EMFAC2021 web based data for 2025 in Riverside (SS).
3. Per CalEEMod, worker Trips were assumed to be 25% LDA, 50% 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.