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.