

Table 1 – Total Construction-Related Fuel Consumption

County Line Road Transportation Corridor

Fuel	Consumption	
Diesel		
On-Road Construction Trips ¹	440	Gallons
Off-Road Construction Equipment ²	27,779	Gallons
Diesel Total	28,219	Gallons
Gasoline		
On-Road Construction Trips ¹	2,382	Gallons
Off-Road Construction Equipment ³	-	Gallons
Gasoline Total	2,382	Gallons

Notes:

1. On-road mobile source fuel use based on vehicle miles traveled (VMT) from CalEEMod for construction in 2019 and fleet-average fuel consumption in gallons per mile from EMFAC2014 web based data for South Coast Air Basin. 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

County Line Road Transportation Corridor

Trip Type	Trips	Trip length	Vehicle Miles Traveled (VMT)	Fuel Efficiency	Annual Fuel Usage ¹	
	(trips)	(miles)	(miles)	(mpg)	(Fuel)	(gallon)
Worker ^{2,3}	3,850	14.7	56,595	23.2	Gasoline	2,382
Vendor ⁴	440	6.9	3,036	7.2	Diesel	440
Hauling ⁵	0	20	0	5.7	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 all years of construction and fleet-average fuel consumption in gallons per mile from EMFAC2014 web based data for 2019 in South Coast Air Basin to ensure a conservative analysis.
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.