Table 1 – Total Construction-Related Fuel Consumption

CVWD - SMP

Fuel	Consumption	
Diesel		
On-Road Construction Trips[1]	45,660	Gallons
Off-Road Construction Equipment[2]	106,521	Gallons
Diesel Total	**152,181**	**Gallons**
Gasoline		
On-Road Construction Trips[1]	4,631	Gallons
Off-Road Construction Equipment[3]	-	Gallons
Gasoline Total	**4,631**	**Gallons**

Notes:

1. On-road mobile source fuel use based on vehicle miles traveled (VMT) from CalEEMod for construction in 2016 and fleet-average fuel consumption in gallons per mile from EMFAC2014 web based data for each of the construction years in the SCAQMD. 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

CVWD - SMP

Trip Type	Trips	Trip length	Vehicle Miles Traveled (VMT)	Fuel Efficiency	Annual Fuel Usage[1]	
	(trips)	(miles)	(miles)	(mpg)	(Fuel)	(gallon)
Worker[2,3]	9,890	11	108,790	23.0	Gasoline	4,631
Vendor[4]	1,172	5.4	6,329	7.7	Diesel	862
Hauling[5]	27,380	10	273,800	6.1	Diesel	44,799

Notes:

1. On-road mobile source fuel use based on vehicle miles traveled (VMT) from CalEEMod output (DEIR Appendix B) for all years of construction and fleet-average fuel consumption in gallons per mile from EMFAC2014 web based data for each of the construction years in the South Coast Air Quality Management District (SCAQMD).

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.