

Existing Annual VMT: 5,165,845

				Fuel		
Fleet Mix	auto	91%	4,700,919	gas (mpg)	23.68	198,518.54
	other	9%	464,926	diesel (mpg)	9.43	49,302.87
						247,821.41

Project Annual VMT: 6,610,554

Fleet Mix	auto	91%	6,015,604	gas (mpg)	23.69	253,930.10
	other	9%	594,950	diesel (mpg)	9.43	63,091.18
						317,021.29

Worker Fuel (Gasoline, on-road)

phase	trips	length (miles)	Days	total Miles	MPG	Gallons
Demolition	8	14.7	77	9,055	23.68	382.40
Site Preparation						
Grading	10	14.7	98	14,406	23.68	608.36
Building Construction	350	14.7	630	3,241,350	23.68	136,881.33
Architectural Coating	70	14.7	195	200,655	23.68	8,473.61
						146,345.70

Vender Fuel (Diesel, on-road)

phase	trips	length (miles)	days	total Miles	MPG	Gallons
Demolition	0	6.9	77	0	9.43	0.00
Site Preparation						
Grading	0	6.9	98	0	9.43	0.00
Building Construction	74	6.9	630	321,678	9.43	34,112.20
Architectural Coating	0	6.9	195	0	9.43	0.00
						34,112.20

Haul Fuel (Diesel, on-road)

phase	trips	length (miles)	days	total Miles	MPG	Gallons
Demolition	335	14.7	77	379,187	9.43	40,210.66
Site Preparation						
Grading	3750	14.7	98	5,402,250	9.43	572,879.11
Building Construction	0	14.7	630	0	9.43	0.00
Architectural Coating	0	14.7	195	0	9.43	0.00
						613,089.77

Total On-Road Gas 146,345.70
Total On-Road Diesel 647,201.96

Construction Equipment (Diesel, off-road)

Phase	Equipment	Units	Hours	HP	Load Factor	Ave. Daily Load Factor	Days	HP Hours
Demolition	Concrete/Industrial Saws	1	8	81	0.73	0.6	77	21,854.45
	Rubber Tired Dozers	1	8	247	0.4	0.6	77	36,516.48
	Tractors/Loaders/Backhoes	3	8	97	0.37	0.6	77	13,264.94
	Excavators	1	8	158	0.38	0.6	77	22,190.78
Site Preparation								
Grading	Rubber Tired Dozers	1	6	247	0.4	0.6	98	34,856.64
	Tractors/Loaders/Backhoes	1	7	97	0.37	0.6	98	14,772.32
	Graders	1	7	187	0.41	0.6	98	31,557.37
	Crawler Tractors	1	7	212	0.43	0.6	98	37,521.46
	Excavators	1	7	158	0.38	0.6	98	24,712.46
	Generator Sets	1	8	84	0.74	0.6	630	187,971.84
Building Construction	cranes	1	6	231	0.29	0.6	630	151,933.32
	forklifts	1	6	89	0.2	0.6	630	40,370.40
	tractors/Loaders/Backhoes	1	6	97	0.37	0.6	630	81,398.52
	welders	3	8	46	0.45	0.6	630	62,596.80
Architectural Coating	Air Compressors	1	6	78	0.48	0.6	195	26,282.88
Total								787,800.67

686,592.00 Total Diesel
832,937.70 Total fuel

Fuel Usage 39,390.03

HP = horsepower. Gallons of diesel fuel per HP-hour - 0.05.

Equipment assumptions are provided in the CalEEMod output files for the Project and fuel usage estimate of 0.05 gallons of diesel fuel per horsepower-hour is from the SCAQMD CEQA Air Quality Handbook, Table A9-3E.

Water Usage for fugitive dust control during construction

Water application rate = 3,020 gallons/acre/day

Each gallon of delivered potable water in Southern California is associated with 0.009727 kWhr of electricity).

Diesel MPG Source: EMFAC2017 (VMT/Fuel Consumption)
Gasoline MPG Source: EMFAC2017 (VMT/Fuel Consumption)

Net Project Annual VMT: 1,444,709

Fleet Mix	auto	91%	1,314,685	gas (mpg)	23.68	55,518.80
	other	9%	130,024	diesel (mpg)	9.43	13,788.31
						69,307.12