

Existing Annual VMT:		664,300		Fuel		
Fleet Mix	auto	91%	604,513	gas (mpg)	23.09	26,180.73
	other	9%	59,787	diesel (mpg)	8.05	7,426.96
						33,608

Project Annual VMT:		1,203,770		Fuel		
Fleet Mix	auto	91%	1,095,431	gas (mpg)	23.09	47,441.78
	other	9%	108,339	diesel (mpg)	8.05	13,458.30
						60,900

Net Project Annual VMT:		539,470		Fuel		
Fleet Mix	auto	91%	490,918	gas (mpg)	23.09	21,261.05
	other	9%	48,552	diesel (mpg)	8.05	6,031.34
						27,292

Diesel MPG Source: EMFAC2021 (VMT/Fuel Consumption)
Gasoline MPG Source: EMFAC2021 (VMT/Fuel Consumption)

Worker Fuel (Gasoline, on-road)						
phase	trips	length (miles)	Days	total Miles	MPG	Gallons
Demolition	10	18.5	32	5,920	23.09	256.39
Grading	7.5	18.5	22	3,053	23.09	132.20
Building Construction	127	18.5	456	1,071,372	23.09	46,399.83
Paving	17.5	18.5	22	7,123	23.09	308.47
Architectural Coating	25.4	18.5	44	20,676	23.09	895.44
Trenching	0	18.5	33	0	23.09	0.00
						47,992

Vender Fuel (Diesel, on-road)						
phase	trips	length (miles)	days	total Miles	MPG	Gallons
Demolition	0	10.2	32	0	8.05	0.00
Grading	0	10.2	22	0	8.05	0.00
Building Construction	23.1	10.2	456	107,443	8.05	13,346.92
Paving	0	10.2	22	0	8.05	0.00
Architectural Coating	0	10.2	44	0	8.05	0.00
Trenching	0	10.2	33	0	8.05	0.00
						13,347

Haul Fuel (Diesel, on-road)						
phase	trips	length (miles)	days	total Miles	MPG	Gallons
Demolition	47.8	25	32	38,240	8.05	4,750.31
Grading	38.5	25	22	21,175	8.05	2,630.43
Building Construction	0	20	456	0	8.05	0.00
Paving	0	20	22	0	8.05	0.00
Architectural Coating	0	0	44	0	8.05	0.00
Trenching	0	0	33	0	8.05	0.00
						7,381

Total On-Road Gas 47,992
Total On-Road Diesel 20,728

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	33	0.73	0.6	32	3,700.22	
	Rubber Tired Dozers	1	1	367	0.4	0.6	32	2,818.56	
	Tractors/Loaders/Backhoes	2	6	84	0.37	0.6	32	3,580.42	
Grading	Graders	1	8	148	0.41	0.6	22	6,407.81	
	Rubber Tired Dozers	1	1	367	0.4	0.6	22	1,937.76	
	tractors/Loaders/Backhoes	1	6	84	0.37	0.6	22	2,461.54	
Building Construction	Graders	1	6	247	0.4	0.6	10	3,556.80	
	Rubber Tired Dozers	1	6	148	0.1	0.6	10	532.80	
	Tractors/Loaders/Backhoes	1	7	97	0.37	0.6	10	1,507.38	
Building Construction	cranes	1	4	367	0.29	0.6	456	116,476.99	
	forklifts	2	6	82	0.2	0.6	456	26,922.24	
	Tractors/Loaders/Backhoes	2	8	84	0.74	0.6	456	136,055.81	
Paving	Pavers	1	7	81	0.42	0.6	22	3,143.45	
	Rollers	1	7	36	0.38	0.6	22	1,264.03	
	Tractors/Loaders/Backhoes	1	7	84	0.37	0.6	22	2,871.79	
Architectural Coating	Air Compressor	1	6	37	0.48	0.6	44	2,813.18	
								Total	316,051

36,530 Total All Diesel
84,523 Total All Fuel

Off-Road Diesel 15,803

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).

Grading 22 days x 2.51 acres x 3,020 gallons = 729,511.2 gallons x 0.009727 = 7,095.95 kWhr

55.22
166,764.40
1,622