

Existing Annual VMT:

1,443,630

Fuel

Fleet Mix	auto	91%	1,313,703	gas (mpg)	22.5	58,386.81
	other	9%	129,927	diesel (mpg)	5.71	22,754.24
						81,141.05

Project Annual VMT:

5,274,001

Fleet Mix	auto	91%	4,799,341	gas (mpg)	22.5	213,304.04
	other	9%	474,660	diesel (mpg)	5.71	83,127.86
						296,431.90

Net Project Annual VMT: 3,830,371

Fleet Mix	auto	91%	3,485,638	gas (mpg)	22.5	154,917.23
	other	9%	344,733	diesel (mpg)	5.71	60,373.62
						215,290.85

Worker Fuel) (Gasoline, on-road)

phase	trips	length (miles)	days	total Miles	MPG	Gallons
demolition	15	14.7	42	9,261	22.5	411.60
Grading	10	14.7	45	6,615	22.5	294.00
Building Construction	141	14.7	718	1,488,199	22.5	66,142.16
Architectural Coating	28	14.7	110	45,276	22.5	2,012.27
						68,860.03

Vender Fuel (Diesel, on-road)

phase	trips	length (miles)	days	total Miles	MPG	Gallons
demolition	15	6.9	42	4,347	5.71	761.30
Grading	10	6.9	45	3,105	5.71	543.78
Building Construction	141	6.9	718	698,542	5.71	122,336.64
Architectural Coating	28	6.9	110	21,252	5.71	3,721.89
						127,363.61

Haul Fuel (Diesel, on-road)

phase	trips	length (miles)	days	total Miles	MPG	Gallons
demolition	109	30	42	137,340	5.71	24,052.54
Grading	3639	30	45	4,912,650	5.71	860,359.02
Building Construction	0	30	718	0	5.71	0.00
Architectural Coating	0	30	110	0	5.71	0.00
						884,411.56

Total On-Road Gas 68,860.03

Total On-Road Diesel 1,011,775.17

Construction Equipment (Diesel, off-road)

Phase	Equipment	Units	Hours	HP	Load Factor	Ave. Daily Load Factor	Days	HP Hours
Demolition	Excavator	1	8	158	0.38	0.6	42	12,104.06
	Concrete/Industrial Saw	1	8	81	0.73	0.6	42	11,920.61
	Rubber Tired Dozers	1	8	247	0.4	0.6	42	19,918.08
	Tractors/Loaders/Backhoes	3	8	97	0.37	0.6	42	7,235.42
Grading	Excavator	1	7	158	0.38	0.6	45	11,347.56
	Bore/Drill Rigs	1	7	221	0.5	0.6	45	20,884.50
	Rubber Tired Dozers	1	6	247	0.4	0.6	45	16,005.60
	Tractors/Loaders/Backhoes	1	7	97	0.37	0.6	45	6,783.21
Building Construction	Graders	1	6	187	0.41	0.6	45	12,420.54
	Generator Sets	1	8	84	0.74	0.6	718	214,228.22
	Cranes	1	6	231	0.29	0.6	718	173,155.75

	Forklifts	1	6	89	0.2	0.6	718	46,009.44
	Cement and Mortar Mixers	1	8	9	0.56	0.6	718	17,369.86
	Tractors/Loaders/Backhoes	1	6	97	0.37	0.6	718	92,768.47
	Welders	3	8	46	0.45	0.6	718	71,340.48
Architectural Coating	Air Compressors	1	6	78	0.48	0.6	110	14,826.24

Total **748,318.05**

1,049,191.07
1,118,051.10

Fuel Usage **37,415.90**

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 45 days x 1.75 acres x 3,020 gallons = 237,825 gallons x 0.009727 = 2,313 kWhr

