

Energy Use Summary

Construction Phase (gallons/construction period)	Gasoline	Diesel		
Construction Vehicles	52	17,673		
Worker Trips	7,451	33		
Vendor Trips	1,581	24		
Haul Trucks	1	753		
Total	9,085	18,483		

Operations Phase (gallons/year)	Gasoline	Diesel	Natural Gas (kBTU/yr)	Electricity (kWh/yr)
Hotel	87,782	7,937	1,894,030	499,912
All Land Uses	87,782	7,937	1,894,030	589,863

Operations Phase - Onroad Energy Use

Vehicle Types	MPG by Fuel Type			Population by Fuel Type			
	GAS	DSL	ELEC	GAS	DSL	ELEC	Total
LDA	30.8	48.7		6,542,832	58,938	127,533	6,601,770
LDT1	26.5	22.6		736,906	387	5,339	737,293
LDT2	24.7	35.7		2,246,303	14,235	22,590	2,260,537
LHDT1	10.5	21.6		175,903	119,381		295,284
LHDT2	9.2	19.5		30,010	47,336		77,346
MCY	36.4			295,960			295,960
MDV	20.0	27.4		1,579,640	33,349	11,658	1,612,989
MH	5.2	10.6		35,098	12,759		47,857
MHDT	5.1	10.7		25,445	123,310		148,755
HHDT	4.2	6.7		78	108,362		108,440
OBUS	5.0	8.5		5,959	4,274		10,234
SBUS	9.1	7.6		2,631	6,631		9,262
UBUS	4.9	6.0		952	14	17	966

Trips/Day	Trips/day	Trips/day	Trips/day	Weekly Total													
Land Use	Weekday	Saturday	Sunday													Total	Daily VMT
Hotel	1,045.00	1,047.00	761.00	2,853													
Total	1,045	1,047	761	2,853													
Fleet Mix	LDA	LDT1	LDT2	MDV	LHDT1	LHDT2	MHDT	HHD	OBUS	UBUS	MCY	SBUS	MH	Total	Daily VMT		
Hotel	0.581674	0.046575	0.210609	0.105305	0.018431	0.006105	0.01053	0.01053	0.001724	0.00172	0.005086	0.000614	0.001096	100.0%			
														0.0%			
														0.0%			
														0.0%			
Vehicle Trips	LDA	LDT1	LDT2	MDV	LHDT1	LHDT2	MHDT	HHDT	Obus	Ubus	MCY	Sbus	MH	Total	Daily VMT		
Weekday Trips	608	49	220	110	19	6	11	11	2	2	5	1	1	1,045	6,587.02		
Hotel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-		
Total	608	49	220	110	19	6	11	11	2	2	5	1	1	1,045	-		
Saturday Trips	609	49	221	110	19	6	11	11	2	2	5	1	1	1,047	6,587		
Hotel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-		
Total	609	49	221	110	19	6	11	11	2	2	5	1	1	1,047	-		
Sunday Trips	443	35	160	80	14	5	8	8	1	1	4	0	1	761	6,587		
Hotel	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-		
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-		
Total	443	35	160	80	14	5	8	8	1	1	4	0	1	761	-		
Gallons of Fuel	LDA	LDT1	LDT2	MDV	LHDT1	LHDT2	MHDT	HHD	Obus	Ubus	MCY	Sbus	MH	Total	Daily VMT		
Gasoline	44,814	4,217	20,347	12,361	2,500	620	850	4	477	838	335	46	374	87,782			
Hotel	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Total	44,814	4,217	20,347	12,361	2,500	620	850	4	477	838	335	46	374	87,782	Total Gallons		
Diesel	256	3	89	191	829	460	1,951	3,740	204	10	0	139	66	7,937			
Hotel	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Total	256	3	89	191	829	460	1,951	3,740	204	10	0	139	66	7,937	Total Gallons		
														95,719	Total Gallons		
														25	Average MPG		

Utilities - Energy

	NaturalGas Use	Electricity Use
Land Use	kBTU/yr	kWh/yr
Land Use	1,894,030	499,912
Parking Lot		89,951
Total	1,894,030	589,863

Construction Offroad Equipment Fuel Use

PhaseName	OffRoadEquipmentType	OffRoadEquipmentUnitAmount	UsageHours	HorsePower	Load Factor	Horsepower Category	Num Days	Year	Fuel Consumption Rate (gal/hour)	Fuel Type	Total Fuel Consumption (gal/construction period)
Demolition	Concrete/Industrial Saws	0	8	81	0.73	100	10	2022	4.7	Gasoline	0
Demolition	Rubber Tired Dozers	0	1	247	0.4	300	10	2022	4.5	Diesel	0
Demolition	Tractors/Loaders/Backhoes	1	6	97	0.37	100	10	2022	1.6	Diesel	35
Site Preparation	Graders	1	8	187	0.41	175	10	2022	3.2	Diesel	103
Site Preparation	Tractors/Loaders/Backhoes	1	8	97	0.37	100	10	2022	1.6	Diesel	47
Grading	Concrete/Industrial Saws	0	8	81	0.73	100	20	2022	4.7	Gasoline	0
Grading	Graders	1	8	187	0.41	175	20	2022	3.2	Diesel	207
Grading	Rubber Tired Dozers	0	1	247	0.4	300	20	2022	4.5	Diesel	0
Grading	Sweepers/Scrubbers	1	8	64	0.46	75	20	2022	1.7	Diesel	127
Grading	Tractors/Loaders/Backhoes	1	6	97	0.37	100	20	2022	1.6	Diesel	71
Building Construction	Aerial Lifts	1	8	63	0.31	75	390	2022	1.2	Diesel	1,115
Building Construction	Cranes	1	4	231	0.29	300	390	2022	3.3	Diesel	1,485
Building Construction	Forklifts	0	6	89	0.2	100	390	2022	2.0	Diesel	0
Building Construction	Other Construction Equipment	2	8	172	0.42	175	390	2022	3.3	Diesel	8,539
Building Construction	Pumps	1	8	84	0.74	100	390	2022	1.3	Diesel	3,096
Building Construction	Tractors/Loaders/Backhoes	1	8	97	0.37	100	390	2022	1.6	Diesel	1,836
Paving	Cement and Mortar Mixers	1	6	9	0.56	25	40	2022	0.4	Gasoline	52
Paving	Pavers	1	7	130	0.42	100	40	2022	1.7	Diesel	204
Paving	Rollers	1	7	80	0.38	100	40	2022	1.7	Diesel	180
Paving	Sweepers/Scrubbers	1	8	64	0.46	75	40	2022	1.7	Diesel	253
Paving	Tractors/Loaders/Backhoes	1	7	97	0.37	100	40	2022	1.6	Diesel	165
Architectural Coating	Aerial Lifts	1	8	63	0.31	75	20	2022	1.2	Diesel	57
Architectural Coating	Air Compressors	2	6	78	0.48	100	20	2022	1.3	Diesel	153
									Total		17,725
									Total	Gasoline	52
									Total	Diesel	17,673

Construction Phase - Onroad Energy Use

Year 2022

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Input Phase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Gasoline Consumption			Diesel Consumption		
							Worker	Vendor	Haul	Worker	Vendor	Haul
Demolition	3	0	34	14.7	6.9	20						
Site Preparation	5	0	160	14.7	6.9	20						
Grading	8	0	60	14.7	6.9	20						
Building Construction	30	12	0	14.7	6.9	20						
Paving	13	0	0	14.7	6.9	20						
Architectural Coating	6	0	0	14.7	6.9	20						
Adjusted												
Demolition	30	0	34	14.7	6.9	20	18	0	0	0	0	101
Site Preparation	50	0	160	14.7	6.9	20	30	0	1	0	0	474
Grading	160	0	60	14.7	6.9	20	95	0	0	0	0	178
Building Construction	11700	4680	0	14.7	6.9	20	6,930	1,581	0	30	24	0
Paving	520	0	0	14.7	6.9	20	308	0	0	1	0	0
Architectural Coating	120	0	0	14.7	6.9	20	71	0	0	0	0	0
							0	0	0	0	0	0
Total							7,451	1,581	1	33	24	753