

Appendix F

Alternatives Detail (Certain
Comparative Vehicle Trips,
VMT and GHG Emissions)

Appendix F - Alternatives Detail
 Trip Generation, GHG Emissions and VMT

ALTERNATIVE 2: 50 PERCENT

Trip Generation

ITE Land Use Code 210: Single Family Housing

Scenario	Size/units	Daily	AM Peak Hour			PM Peak Hour		
			In	Out	Total	In	Out	Total
Project (DEIR Table 4.13-1)	144	1,360	27	80	107	90	53	143
Alternative 2	72	680	14	40	54	45	27	72
Reduced Trips		680	14	40	54	45	27	72
Percent Reduction		50%	50%	50%	50%	50%	50%	50%

VMT

Scenario	Size/units	VMT-based Residents (based on adjacent TAZ VMTs)	Total VMT per Weekday	Project TAZ Total Home-Based VMT per Resident	VMT Threshold Value	Impact?
Existing with Project	144	396	8164	20.6	16.5	Yes
Existing with Alt 2	72	198	4082	20.6		Yes

DEIR Table 4.13-2

Cumulative VMT w HI GP	29,432,734					
Cumulative with Project	29,435,465					
Cumulative with Alt 2	29,434,085					
Cum+Proj	2731 more VMT per day than existing HI GP					Yes
Cum+Alt 2	1351 more VMT per day less than existing HI GP					Yes

GHG

Project (Adjusted) Alternative 2
 DEIR Table 4.6-6

Total Emissions (Buildout)	1,556	778
Service Population (residents)	356	178
GHG Emissions per Service Population (MTCO _{2e} /SP/yr)	4.37	4.37
GHG Efficiency Target (MTCO _{2e} /SP/yr)	3.86	3.86
Required Reduction to achieve Target (TTL emissions minus 2024 target [1,374 MTCO _{2e} /yr])	182	0 (596 over)
Impact?	Yes	No

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Alternative 3: Light Industrial

ITE Trip Generation Rates	Land Use Code 151: Mini-Warehouse	sq. ft. rate	2.5	0.59	0.41	0.15	0.51	0.49	0.26
	(Self-Storage)	acreage rate	38.87	0.59	0.41	2.5	0.52	0.48	3.83

Bayview Trip Generation

Vehicle Trip Generation Estimates for Proposed Project

Index	Project Location	Size ¹	Unit	Daily	AM Peak Hour			PM Peak Hour			
				Rate	In	Out	Total	In	Out	Total	
1	Bayview	Central Avenue	304.92	sq. ft.	762	27	19	46	40	39	79
			21	acres	816	31	22	53	42	39	80

¹ Assumes development on half of project's developable area, or 21 acres, with one-third of that (7 acres) built upon

Comparison to Project	Size ¹	Unit	Daily	AM Peak Hour			PM Peak Hour		
			Rate	In	Out	Total	In	Out	Total
Reduction from Project (based on acreage trip gen.)			744	0	70	70	62	22	84
			48%	0%	77%	57%	60%	37%	51%

Proposed Project	144 units	1360	107	143
Alternative 3	Percent of Project trips	55%	65%	59%