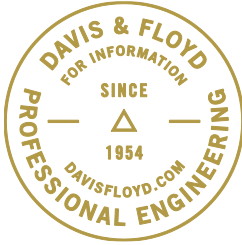


Appendix 6-E: Greenhouse Gases Evaluation

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Greenhouse Gases - Carbon Dioxide Equivalent (CO ₂ e)		Alt B-1: US 78/Mtg BRT			Alt B-3: US 78/EB BRT			Alt C-1: US 176/Mtg BRT			Alt C-3: US 176/EB BRT			Alt D-1: Dorch/Mtg BRT			Alt D-3: Dorch/EB BRT		
Mode/Technology	Conversion Factor: Emissions (kg)/VMT	VMT Decrease (Increase)	Emissions Decrease (Increase) (kg)	Value of Improvement	VMT Decrease (Increase)	Emissions Decrease (Increase) (kg)	Value of Improvement	VMT Decrease (Increase)	Emissions Decrease (Increase) (kg)	Value of Improvement	VMT Decrease (Increase)	Emissions Decrease (Increase) (kg)	Value of Improvement	VMT Decrease (Increase)	Emissions Decrease (Increase) (kg)	Value of Improvement	VMT Decrease (Increase)	Emissions Decrease (Increase) (kg)	Value of Improvement
Automobile	0.000532	6847855	3643.05886	\$138,436.24	6,626,481	3525.287892	\$133,960.94	3,665,676	1950.139632	\$74,105.31	3,477,537	1850.049684	\$70,301.89	5,629,431	2994.857292	\$113,804.58	5,518,744	2935.971808	\$111,566.93
Diesel Bus	0.003319	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00
Hybrid Bus	0.002655	-1096830.86	-2912.085933	(\$110,659.27)	-1,137,759	-3020.750517	(\$114,788.52)	-1,017,562	-2701.626367	(\$102,661.80)	-1,058,490	-2810.29095	(\$106,791.06)	-1,201,504	-3189.992483	(\$121,219.71)	-1,242,432	-3298.657066	(\$125,348.97)
CNG Bus	0.002935	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00
Electric Bus	0.002934	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00
Heavy Rail	0.003211	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00
Light Rail/Street Car (CART Miles)	0.004779	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00
Commuter Rail (Diesel Locomotive or DMU)	0.007970	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00
Commuter Rail (Used Diesel Locomotive)	0.007970	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00
Commuter Rail (Electric or EMU)	0.005821	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00
Total Change	---	5751024.14	730.9729267	\$27,776.97	5488721.86	504.5373753	\$19,172.42	2,648,114	-751.4867346	(\$28,556.50)	2,419,047	-960.241266	(\$36,489.17)	4,427,927	-195.1351908	(\$7,415.14)	4,276,312	-362.6852582	(\$13,782.04)

Greenhouse Gases - Carbon Dioxide Equivalent (CO ₂ e)		Alt B-2: US 78/Mtg LRT			Alt B-4: US 78/EB LRT			Alt C-2: US 176/Mtg LRT			Alt C-4: US 176/EB LRT			Alt D-2: Dorch/Mtg LRT			Alt D-4: Dorch/EB LRT		
Mode/Technology	Conversion Factor: Emissions (kg)/VMT	VMT Decrease (Increase)	Emissions Decrease (Increase) (kg)	Value of Improvement	VMT Decrease (Increase)	Emissions Decrease (Increase) (kg)	Value of Improvement	VMT Decrease (Increase)	Emissions Decrease (Increase) (kg)	Value of Improvement	VMT Decrease (Increase)	Emissions Decrease (Increase) (kg)	Value of Improvement	VMT Decrease (Increase)	Emissions Decrease (Increase) (kg)	Value of Improvement	VMT Decrease (Increase)	Emissions Decrease (Increase) (kg)	Value of Improvement
Automobile	0.000532	11,689,472	6218.799104	\$236,314.37	11,196,727	5956.658764	\$226,353.03	6,873,865	3656.89618	\$138,962.05	6,641,509	3533.282788	\$134,264.75	9,223,435	4906.86742	\$186,460.96	8,898,021	4733.747172	\$179,882.39
Diesel Bus	0.003319	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00
Hybrid Bus	0.002655	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00
CNG Bus	0.002935	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00
Electric Bus	0.002934	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00
Heavy Rail	0.003211	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00
Light Rail/Street Car (CART Miles)	0.004779	-2,193,662	-10483.50936	(\$398,373.36)	-2,275,518	-10874.70186	(\$413,238.67)	-2,035,123	-9725.85492	(\$369,582.49)	-2,116,980	-10117.04742	(\$384,447.80)	-2,403,006	-11483.96567	(\$436,390.70)	-2,485,008	-11875.85094	(\$451,282.34)
Commuter Rail (Diesel Locomotive or DMU)	0.007970	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00
Commuter Rail (Used Diesel Locomotive)	0.007970	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00
Commuter Rail (Electric or EMU)	0.005821	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00	0	0	\$0.00
Total Change	---	9495810.28	-4264.710256	(\$162,058.99)	8,921,209	-4918.043096	(\$186,885.64)	4,838,742	-6068.95874	(\$230,620.43)	4,524,529	-6583.764632	(\$250,183.06)	6,820,429	-6577.098254	(\$249,929.73)	6,413,013	-7142.103766	(\$271,399.94)

