

APPENDIX E: LIFE CYCLE ANALYSIS TABLE

Year of Expenditure	Est. Inflation	24-Hour Ferry Operation		16-Hour Ferry Operation		12-Hour Ferry Operation		South Bridge Construction		North Bridge Construction	
		Operations	Capital	Operations	Capital	Operations	Capital	Phase	Cost	Phase	Cost
2023		\$1,050,000		\$833,000		\$615,000					
2024	3.10%	\$1,250,000		\$991,700		\$732,100					
2025	2.90%	\$1,286,300		\$1,020,500		\$753,300					
2026	2.70%	\$1,321,100		\$1,048,100		\$773,600					
2027	2.50%	\$1,354,200		\$1,074,300		\$792,900		Design	\$860,000	Design	\$1,446,300
2028	2.50%	\$1,388,100		\$1,101,200		\$812,700		Design	\$881,500	Design	\$1,482,400
2029	2.50%	\$1,422,900		\$1,128,700		\$833,000		ROW	\$223,000	ROW	\$293,400
2030	2.50%	\$1,458,500		\$1,156,900		\$853,800		Utilities	\$120,300	Utilities	\$240,600
2031	2.50%	\$1,495,000		\$1,185,800		\$875,100		Construction	\$9,553,600	Construction	\$15,963,800
2032	2.50%	\$1,532,400		\$1,215,400		\$897,000		Construction	\$9,792,500	Construction	\$16,362,800
2033	2.50%	\$1,570,800		\$1,245,800		\$919,400					
2034	2.50%	\$1,610,100		\$1,276,900		\$942,400					
2035	2.50%	\$1,650,400		\$1,308,800		\$966,000					
2036	2.50%	\$1,691,700		\$1,341,500		\$990,200					
2037	2.50%	\$1,734,000		\$1,375,000		\$1,015,000					
2038	2.50%	\$1,777,400		\$1,409,400		\$1,040,400					
2039	2.50%	\$1,821,900		\$1,444,600		\$1,066,400					
2040	2.50%	\$1,867,500		\$1,480,700		\$1,093,100					
2041	2.50%	\$1,914,200		\$1,517,700		\$1,120,400					
2042	2.50%	\$1,962,100		\$1,555,600		\$1,148,400					
2043	2.50%	\$2,011,200	\$663,200	\$1,594,500	\$663,200	\$1,177,100	\$663,200	Maintenance	\$1,657,900	Maintenance	\$1,657,900
2044	2.50%	\$2,061,500		\$1,634,400		\$1,206,500					
2045	2.50%	\$2,113,100		\$1,675,300		\$1,236,700					
2046	2.50%	\$2,166,000		\$1,717,200		\$1,267,600					
2047	2.50%	\$2,220,200		\$1,760,100		\$1,299,300					
2048	2.50%	\$2,275,800		\$1,804,100		\$1,331,800					
2049	2.50%	\$2,332,700		\$1,849,200		\$1,365,100					
2050	2.50%	\$2,391,100		\$1,895,400		\$1,399,200					
2051	2.50%	\$2,450,900		\$1,942,800		\$1,434,200					
2052	2.50%	\$2,512,200		\$1,991,400		\$1,470,100					
2053	2.50%	\$2,575,100		\$2,041,200		\$1,506,900					
2054	2.50%	\$2,639,500		\$2,092,200		\$1,544,600					
2055	2.50%	\$2,705,500		\$2,144,500		\$1,583,200					
2056	2.50%	\$2,773,200		\$2,198,100		\$1,622,800					
2057	2.50%	\$2,842,600		\$2,253,100		\$1,663,400					
2058	2.50%	\$2,913,700		\$2,309,400		\$1,705,000					
2059	2.50%	\$2,986,600		\$2,367,100		\$1,747,600					
2060	2.50%	\$3,061,300		\$2,426,300		\$1,791,300					
2061	2.50%	\$3,137,900		\$2,487,000		\$1,836,100					
2062	2.50%	\$3,216,400		\$2,549,200		\$1,882,000					
2063	2.50%	\$3,296,900	\$1,086,700	\$2,612,900	\$1,086,700	\$1,929,100	\$1,086,700	Maintenance	\$2,716,700	Maintenance	\$2,716,700
2064	2.50%	\$3,379,400		\$2,678,200		\$1,977,300					
2065	2.50%	\$3,463,900		\$2,745,200		\$2,026,700					
2066	2.50%	\$3,550,500		\$2,813,800		\$2,077,400					
2067	2.50%	\$3,639,300		\$2,884,100		\$2,129,300					
2068	2.50%	\$3,730,300		\$2,956,200		\$2,182,500					
2069	2.50%	\$3,823,600		\$3,030,100		\$2,237,100					
2070	2.50%	\$3,919,200		\$3,105,900		\$2,293,000					
2071	2.50%	\$4,017,200		\$3,183,500		\$2,350,300					
2072	2.50%	\$4,117,700		\$3,263,100		\$2,409,100					
2073	2.50%	\$4,220,700		\$3,344,700		\$2,469,300					
2074	2.50%	\$4,326,300		\$3,428,300		\$2,531,000					
2075	2.50%	\$4,434,500		\$3,514,000		\$2,594,300					
TOTAL (2024 - 2075)		\$133,164,500		\$105,921,000		\$78,652,000		\$25,805,500		\$40,163,900	
PLUS Ferry Operation (2024-2032):								\$10,180,900		\$10,180,900	
Total Cost:								\$35,986,400		\$50,344,800	