

Appendix H Construction Cost Estimates

Cost Estimate of Alternatives: Tannery Park East and West (Reaches 1 and 2)

Alternative 1a - Revetment with Master Plan					\$ 2,560,000
Excavation	2300 cu.m.	\$	25 /cu.m.	\$	60,000
Armour Stone	10400 tonnes	\$	100 /tonne	\$	1,040,000
Rip rap	5400 tonnes	\$	60 /tonne	\$	330,000
Geotextile	4400 sq.m.	\$	10 /sq.m.	\$	50,000
Clean Fill	33600 tonnes	\$	25 /tonne	\$	840,000
Clear stone fill	6600 tonnes	\$	40 /tonne	\$	270,000
Alternative 1b - Revetment with Modified Master Plan					\$ 2,160,000
Excavation	2300 cu.m.	\$	25 /cu.m.	\$	60,000
Armour Stone	10400 tonnes	\$	100 /tonne	\$	1,040,000
Rip rap	5400 tonnes	\$	60 /tonne	\$	330,000
Geotextile	4400 sq.m.	\$	10 /sq.m.	\$	50,000
Clean Fill	17600 tonnes	\$	25 /tonne	\$	440,000
Clear stone fill	6600 tonnes	\$	40 /tonne	\$	270,000
Alternative 1c - Revetment with Trail System Only					\$ 1,650,000
Excavation	2300 cu.m.	\$	25 /cu.m.	\$	60,000
Armour Stone	10100 tonnes	\$	100 /tonne	\$	1,010,000
Rip rap	5400 tonnes	\$	60 /tonne	\$	330,000
Geotextile	4400 sq.m.	\$	10 /sq.m.	\$	50,000
Clean Fill	8800 tonnes	\$	25 /tonne	\$	220,000
Alternative 2a - Armour Stone Groynes and Cobble Beach with Master Plan					\$ 2,600,000
Excavation	1000 cu.m.	\$	25 /cu.m.	\$	30,000
Armour Stone	9000 tonnes	\$	100 /tonne	\$	900,000
Rip rap	6600 tonnes	\$	60 /tonne	\$	400,000
Geotextile	2500 sq.m.	\$	10 /sq.m.	\$	30,000
Clean Fill	26600 tonnes	\$	25 /tonne	\$	670,000
Clear stone fill	4800 tonnes	\$	40 /tonne	\$	200,000
Cobble	6900 tonnes	\$	60 /tonne	\$	420,000
Alternative 2b - Armour Stone Groynes and Cobble Beach with Modified Master Plan					\$ 2,430,000
Excavation	1000 cu.m.	\$	25 /cu.m.	\$	30,000
Armour Stone	9300 tonnes	\$	100 /tonne	\$	930,000
Rip rap	8000 tonnes	\$	60 /tonne	\$	480,000
Geotextile	2300 sq.m.	\$	10 /sq.m.	\$	30,000
Clean Fill	16600 tonnes	\$	25 /tonne	\$	420,000
Clear stone fill	4200 tonnes	\$	40 /tonne	\$	170,000
Cobble	6700 tonnes	\$	60 /tonne	\$	410,000
Alternative 3 – Armour Stone Breakwater, Groynes and Cobble Beach with Trail System Only					\$ 2,700,000
Excavation	200 cu.m.	\$	25 /cu.m.	\$	10,000
Armour Stone	11100 tonnes	\$	100 /tonne	\$	1,110,000
Rip rap	8500 tonnes	\$	60 /tonne	\$	510,000
Geotextile	1700 sq.m.	\$	10 /sq.m.	\$	20,000
Clean Fill	17200 tonnes	\$	25 /tonne	\$	430,000
Cobble	10900 tonnes	\$	60 /tonne	\$	660,000
Modified Alternative 2b – Armour Stone Groynes and Cobble Beach with Trail System Only					\$ 2,390,000
Excavation	1000 cu.m.	\$	25 /cu.m.	\$	30,000
Armour Stone	8700 tonnes	\$	100 /tonne	\$	870,000
Rip rap	6300 tonnes	\$	60 /tonne	\$	380,000
Geotextile	2500 sq.m.	\$	10 /sq.m.	\$	30,000
Clean Fill	19800 tonnes	\$	25 /tonne	\$	500,000
Clear stone fill	4800 tonnes	\$	40 /tonne	\$	200,000
Cobble	6900 tonnes	\$	60 /tonne	\$	420,000

Cost Estimate of Alternatives: Walker Street Promenade and Waterworks Park (Reaches 3 and 4)

Alternative 1 - Armour Stone Wall					\$ 250,000
Rebuild Existing Revetment				\$ 60,000	
Excavation	800 cu.m.	\$ 25 /cu.m.		\$ 20,000	
Armour Stone	900 tonnes	\$ 100 /tonne		\$ 90,000	
Rip rap	800 tonnes	\$ 60 /tonne		\$ 48,000	
Geotextile	700 sq.m.	\$ 10 /sq.m.		\$ 7,000	
Boulders (offshore)	300 tonnes	\$ 100 /tonne		\$ 30,000	
Alternative 2 - Boulder Berm					\$ 190,000
Rebuild Existing Revetment				\$ 60,000	
Boulders (offshore)	300 tonnes	\$ 100 /tonne		\$ 30,000	
Boulders (berm)	1500 tonnes	\$ 70 /tonne		\$ 110,000	
Alternative 3 - Armour Stone Wall and Boulder Groynes and Cobble Beaches					\$ 260,000
Excavation	600 cu.m.	\$ 25 /cu.m.		\$ 20,000	
Armour Stone	800 tonnes	\$ 100 /tonne		\$ 80,000	
Rip rap	600 tonnes	\$ 60 /tonne		\$ 40,000	
Geotextile	600 sq.m.	\$ 10 /sq.m.		\$ 10,000	
Boulders (offshore)	200 tonnes	\$ 100 /tonne		\$ 20,000	
Boulders (berm)	1100 tonnes	\$ 70 /tonne		\$ 80,000	
Cobble	700 tonnes	\$ 50 /tonne		\$ 40,000	