

McConnell Erosion / Slide Protection Option 1 Cost Estimate



Construction Cost Estimate

Task Description		Units	Quantity	Unit Price	Subtotal	Totals
General						
1.1	Mobilization	LS	1	\$ 20,000	\$ 20,000	
Section 1 Subtotal						\$ 20,000
Lower River Access road						
2.1	5m wide Access Road	l.m.	375	\$ 200.00	\$ 75,000	
2.2	Laydown Area	l.s.	1	\$ 10,000.00	\$ 10,000	
2.3	18.288m (60ft) Temporary Bridge	Each	1	\$ 30,000.00	\$ 30,000	
Section 2 Subtotal						\$ 115,000
River Riprap						
3.1	Supply & Delivery of Riprap	cu.m.	3525	\$ 45.00	\$ 158,625	
3.2	Installation of Riprap	cu.m.	3525	\$ 20.00	\$ 70,500	
3.3	Non-woven Geotextile	sq.m.	2350	\$ 8.00	\$ 18,800	
Section 3 Subtotal						\$ 247,925
Lower Slope Riprap						
4.1	Supply & Delivery of Riprap	cu.m.	8750	\$ 45.00	\$ 393,750	
4.2	Installation of Riprap	cu.m.	8750	\$ 75.00	\$ 656,250	
Section 4 Subtotal						\$ 1,050,000
Option 1 Slope Armouring						
5.1	Common Excavation	cu.m.	840	\$ 42.00	\$ 35,280	
5.2	Supply & Delivery of Riprap	cu.m.	5775	\$ 45.00	\$ 259,875	
5.3	Installation of Riprap	cu.m.	5775	\$ 35.00	\$ 202,125	
5.4	Non-woven Geotextile	sq.m.	1600	\$ 8.00	\$ 12,800	
5.5	Septic Field Installation	l.s.	40000	\$ 1.00	\$ 40,000	
Section 5 Subtotal						\$ 550,080
Engineering/Environmental						
6.1	Design & Permitting	%	4.0%	\$ 1,983,005	\$ 79,320	
6.2	Construction Engineering Services	%	3.0%	\$ 1,983,005	\$ 59,490	
6.3	Construction Environmental Services	%	3.0%	\$ 1,983,005	\$ 59,490	
6.4	Contingency	%	15%	\$ 1,983,005	\$ 297,451	
Section 6 Subtotal						\$ 495,751
Project Total						\$ 2,478,756

McConnell Erosion / Slide Protection Option 2 Cost Estimate

Construction Cost Estimate



Task Description		Units	Quantity	Unit Price	Subtotal	Totals
General						
1.1	Mobilization	LS	1	\$ 20,000	\$ 20,000	
Section 1 Subtotal						\$ 20,000
Lower River Access road						
2.1	5m wide Access Road	l.m.	375	\$ 200.00	\$ 75,000	
2.2	Laydown Area	l.s.	1	\$ 10,000.00	\$ 10,000	
2.3	18.288m (60ft) Temporary Bridge	Each	1	\$ 30,000.00	\$ 30,000	
Section 2 Subtotal						\$ 115,000
River Riprap						
3.1	Supply & Delivery of Riprap	cu.m.	3525	\$ 45.00	\$ 158,625	
3.2	Installation of Riprap	cu.m.	3525	\$ 20.00	\$ 70,500	
3.3	Non-woven Geotextile	sq.m.	2350	\$ 8.00	\$ 18,800	
Section 3 Subtotal						\$ 247,925
Lower Slope Riprap						
4.1	Supply & Delivery of Riprap	cu.m.	8750	\$ 45.00	\$ 393,750	
4.2	Installation of Riprap	cu.m.	8750	\$ 75.00	\$ 656,250	
Section 4 Subtotal						\$ 1,050,000
Option 2 Slope Regrading						
5.1	Common Excavation	cu.m.	6050	\$ 36.00	\$ 217,800	
5.2	Supply & Delivery of Riprap	cu.m.	2750	\$ 45.00	\$ 123,750	
5.3	Installation of Riprap	cu.m.	2750	\$ 35.00	\$ 96,250	
5.4	Slope Hydroseeding and Remeadiation	sq. m.	2300	\$ 7.00	\$ 16,100	
5.5	Septic tank Installation	l.s.	1	\$ 15,000.00	\$ 15,000	
5.6	Septic Field Installation	l.s.	40000	\$ 1.00	\$ 40,000	
Section 5 Subtotal						\$ 508,900
Engineering/Environmental						
6.1	Design & Permitting	%	4.0%	\$ 1,941,825	\$ 77,673	
6.2	Construction Engineering Services	%	3.0%	\$ 1,941,825	\$ 58,255	
6.3	Construction Environmental Services	%	3.0%	\$ 1,941,825	\$ 58,255	
6.4	Contingency	%	15%	\$ 1,941,825	\$ 291,274	
Section 6 Subtotal						\$ 485,456
Project Total						\$ 2,427,281

McConnell Erosion / Slide Protection Option 3 Cost Estimate



Construction Cost Estimate

Task Description		Units	Quantity	Unit Price	Subtotal	Totals
General						
1.1	Mobilization	LS	1	\$ 20,000	\$ 20,000	
Section 1 Subtotal						\$ 20,000
Lower River Access road						
2.1	5m wide Access Road	l.m.	375	\$ 200.00	\$ 75,000	
2.2	Laydown Area	l.s.	1	\$ 10,000.00	\$ 10,000	
2.3	18.288m (60ft) Temporary Bridge	Each	1	\$ 30,000.00	\$ 30,000	
Section 2 Subtotal						\$ 115,000
River Riprap						
3.1	Supply & Delivery of Riprap	cu.m.	3525	\$ 45.00	\$ 158,625	
3.2	Installation of Riprap	cu.m.	3525	\$ 20.00	\$ 70,500	
3.3	Non-woven Geotextile	sq.m.	2350	\$ 8.00	\$ 18,800	
Section 3 Subtotal						\$ 247,925
Lower Slope Riprap						
4.1	Supply & Delivery of Riprap	cu.m.	8750	\$ 45.00	\$ 393,750	
4.2	Installation of Riprap	cu.m.	8750	\$ 75.00	\$ 656,250	
Section 4 Subtotal						\$ 1,050,000
Option 3 Shotcrete and Soil Nailing						
5.1	Shotcrete Slope	sq. m.	1300	\$ 400.00	\$ 520,000	
5.2	Soil Nailing	sq. m.	1300	\$ 600.00	\$ 780,000	
5.3	Septic Field Installation	l.s.	1	\$ 40,000.00	\$ 40,000	
Section 5 Subtotal						\$ 1,300,000
Engineering/Environmental						
6.1	Design & Permitting	%	4.0%	\$ 2,732,925	\$ 109,317	
6.2	Construction Engineering Services	%	4.0%	\$ 2,732,925	\$ 109,317	
6.3	Construction Environmental Services	%	3.0%	\$ 2,732,925	\$ 81,988	
6.4	Contingency	%	15%	\$ 2,732,925	\$ 409,939	
Section 6 Subtotal						\$ 710,561
Project Total						\$ 3,443,486

McConnell Erosion / Slide Protection Option 4 Cost Estimate



Construction Cost Estimate

Task Description		Units	Quantity	Unit Price	Subtotal	Totals
General						
1.1	Mobilization	LS	1	\$ 20,000	\$ 20,000	
Section 1 Subtotal						\$ 20,000
Lower River Access road						
2.1	5m wide Access Road	l.m.	375	\$ 200.00	\$ 75,000	
2.2	Laydown Area	l.s.	1	\$ 10,000.00	\$ 10,000	
2.3	18.288m (60ft) Temporary Bridge	Each	1	\$ 30,000.00	\$ 30,000	
Section 2 Subtotal						\$ 115,000
River Riprap						
3.1	Supply & Delivery of Riprap	cu.m.	3525	\$ 45.00	\$ 158,625	
3.2	Installation of Riprap	cu.m.	3525	\$ 20.00	\$ 70,500	
3.3	Non-woven Geotextile	sq.m.	2350	\$ 8.00	\$ 18,800	
Section 3 Subtotal						\$ 247,925
Lower Slope Riprap						
4.1	Supply & Delivery of Riprap	cu.m.	8750	\$ 45.00	\$ 393,750	
4.2	Installation of Riprap	cu.m.	8750	\$ 75.00	\$ 656,250	
Section 4 Subtotal						\$ 1,050,000
Option 4 Retaining wall						
5.1	Erdox Terra Wall	sq. m.	1300	\$ 1,800.00	\$ 2,340,000	
5.2	Granular Fill	cu.m.	5600	\$ 16.00	\$ 89,600	
5.3	Septic Field Installation	l.s.	40000	\$ 1.00	\$ 40,000	
Section 5 Subtotal						\$ 2,469,600
Engineering/Environmental						
6.1	Design & Permitting	%	4.0%	\$ 3,902,525	\$ 156,101	
6.2	Construction Engineering Services	%	4.0%	\$ 3,902,525	\$ 156,101	
6.3	Construction Environmental Services	%	3.0%	\$ 3,902,525	\$ 117,076	
6.4	Contingency	%	15%	\$ 3,902,525	\$ 585,379	
Section 6 Subtotal						\$ 1,014,657
Project Total						\$ 4,917,182

Kitsumkalum South Mitigation Cost Estimate



Construction Cost Estimate

Task Description		Units	Quantity	Unit Price	Subtotal	Totals
General						
1.1	Mobilization	LS	1	\$ 10,000	\$ 10,000	
Section 1 Subtotal						\$ 10,000
River Riprap						
2.1	Supply & Delivery of Riprap	cu.m.	7596	\$ 45.00	\$ 341,820	
2.2	Installation of Riprap	cu.m.	7596	\$ 20.00	\$ 151,920	
2.3	Non-woven Geotextile	sq.m.	5064	\$ 8.00	\$ 40,512	
Section 2 Subtotal						\$ 534,252
Engineering/Environmental						
3.1	Design & Permitting	%	5.0%	\$ 544,252	\$ 27,213	
3.2	Construction Engineering Services	%	4.0%	\$ 544,252	\$ 21,770	
3.3	Construction Environmental Services	%	6.0%	\$ 544,252	\$ 32,655	
3.4	Contingency	%	15%	\$ 544,252	\$ 81,638	
Section 3 Subtotal						\$ 163,276
Project Total						\$ 707,528

Kitsumkalum Slough Flood Protection Cost Estimate



Construction Cost Estimate

Task Description		Units	Quantity	Unit Price	Subtotal	Totals
General						
1.1	Mobilization	LS	1	\$ 5,000	\$ 5,000	
Section 1 Subtotal						\$ 5,000
Flood Mitigation Berm						
2.1	Berm Installation	cu.m.	350	\$ 65.00	\$ 22,750	
2.2	Seeding	l.s.	1	\$ 1,200.00	\$ 1,200	
Section 2 Subtotal						\$ 23,950
Engineering/Environmental						
3.1	Design & Permitting	%	15.0%	\$ 28,950	\$ 4,343	
3.2	Construction Engineering Services	%	15.0%	\$ 28,950	\$ 4,343	
3.3	Construction Environmental Services	%	15.0%	\$ 28,950	\$ 4,343	
3.4	Contingency	%	15.0%	\$ 28,950	\$ 4,343	
Section 3 Subtotal						\$ 17,370
Project Total						\$ 46,320