Muskrat Falls Vegetation Removal Scenario A

Date: 25-Feb-18

	Area of soil to be removed	Estimated Quantities 0.5m cover
	(ha)	Volume (m^3)
Covered Area	39.5	197,500
Excluded Area	62.35	311,750
Total	**101.85**	**509,250**

Construction Costs									
Item	**Description**	**Unit**	**Quantity**	**Low Estimate Unit Cost**	**High Estimate Unit Cost**	**Low**	**High**
1	**Mobilization**						
1a	Contractor Mobilization/demobilization	% of Capex	1	$ 2,086,875	$ 3,130,313	$ 2,086,875	$ 3,130,313
1b	Contractor Compound	Lump	1.0	$ 250,000	$ 500,000	$ 250,000	$ 500,000
1c	Work Camp Operational Cost - South Side Works	Lump	1.0	$ 240,625	$ 350,000	$ 240,625	$ 350,000
1d	Goose Bay Accommodationsl Cost - North Side Works	Lump	1.0	$ 656,250	$ 875,000	$ 656,250	$ 875,000
1e	Engineering design and construction support	% of Capex	1	$ 1,156,203	$ 1,849,925	$ 1,156,203	$ 1,849,925
						$ 4,389,953	**$ 6,705,238**
2	**Wetland Covering**						
2a	Timber (all inclusive rate)	$/ha	-	$ 40,000	$ 65,000	$ -	$ -
2b	Borrow Excavation/Placement	$/m3	197,500	$ 15.00	$ 22.50	$ 2,962,500	$ 4,443,750
						$ 2,962,500	**$ 4,443,750**
3	**Site Clearing (Barge) - Quantities 20% of total site clearing**						
3a	Overburden Excavation (includes O and A)	$/m3	-	$ 14.00	$ 30.00	$ -	$ -
						$ -	**$ -**
4	**Road Construction**						
4a	New Roads	$/lineal m	12,000	$ 200.00	$ 300.00	$ 2,400,000	$ 3,600,000
4b	Upgrade existing roads	$/lineal m	30,000	$ 51.00	$ 60.00	$ 1,530,000	$ 1,800,000
4c	Water crossing (900mm CSP)	Lump	125	$ 6,000	$ 12,000	$ 750,000	$ 1,500,000
4d	Road Maintenance (fall -winter- apr)	$/day	90	$ 13,000	$ 20,000	$ 1,170,000	$ 1,800,000
4e	Contingency for dualling of upto 50% of haul roads	$/lineal m	-	$ 101.00	$ 180.00	$ -	$ -
						$ 5,850,000	**$ 8,700,000**
5	**General Excavation**						
5a	Sedimentation Ponds	$/m3	-	$ 7.00	$ 15.00	$ -	$ -
5b	Clay Slope Cutback to 3:1	$/m3	-	$ 7.00	$ 15.00	$ -	$ -
5c	Clay Slope Protection	$/m2	-	$ 5.00	$ 10.00	$ -	$ -
5d	Borrow pit Clearing, Excavation and Rehab	$/m2	250,000	$ 12.00	$ 24.00	$ 3,000,000	$ 6,000,000
						$ 3,000,000	**$ 6,000,000**
	Construction Total					**$ 13,802,453**	**$ 22,248,988**