

APPENDIX I

Costing

Table I.1: Preliminary Estimate of Direct Costs for Recommended Initial Design of GIS

Item	Description	Quantity	Unit	Unit Cost	Cost
				Can \$	Can \$
1.0 Drilling & Installation of Pumping Wells (Air Rotary)				Subtotal	\$237,940
1.1	Mob/Demob	1	l.s.	\$15,000	\$15,000
1.2	Drilling of 10" holes (2 holes at 30m each)	60	m	\$308	\$18,480
1.3	Installation of 8" well assembly (2 wells)	20	hrs	\$495	\$9,900
1.4	Johnson wire-wrap SS screens (8")	40	m	\$60	\$2,400
1.5	8" Steel Casing	20	m	\$620	\$12,400
1.6	Drilling of 8" holes (6 holes at 30m each)	180	m	\$230	\$41,400
1.7	Installation of 6" well assembly (6 wells)	60	hrs	\$308	\$18,480
1.8	Johnson wire-wrap SS screens (6")	120	m	\$400	\$48,000
1.9	6" Steel Casing	60	m	\$50	\$3,000
1.10	Miscellaneous Materials (Drill Bits, Drive Shoes, etc)	1	l.s.	\$7,500	\$7,500
1.11	Well Development (8 wells)	96	hrs	\$495	\$47,520
1.12	Living Allowance (3 man crew)	84	man days	\$165	\$13,860
2.0 Drilling & Installation of Monitoring Wells (SONIC)				Subtotal	\$780,645
2.1	Mob/Demob	1	l.s.	\$50,000	\$50,000
2.2	Drilling of 13 deep holes w/ 6x4 SONIC (at 35m each)	455	m	\$180	\$81,900
2.3	Installation of multilevel bundle (13 wells)	65	hrs	\$415	\$26,975
2.4	Multilevel bundle (assembled)	13	ea.	\$4,000	\$52,000
2.5	Drilling of 8 shallow holes w/ 6/4 SONIC (at 15m each)	120	m	\$180	\$21,600
2.6	Installation of single 2" monitoring wells (8 wells)	32	hrs	\$415	\$13,280
2.7	PVC casing & screen (8 wells)	120	m	\$17	\$1,980
2.8	Backfill materials (filter sand; bentonite etc)	1	l.s.	\$2,500	\$2,500
2.9	Downhole PT w/ onboard logging (8 plus barometer)	9	ea.	\$650	\$5,850
2.10	Miscellaneous Materials (Drill Bits, prot. Casing etc)	1	l.s.	\$5,000	\$5,000
2.11	Well Development (13 multi and 8 conv. wells)	68	hrs	\$120	\$8,160
2.12	Living Allowance (2 man crew)	48	man days	\$125	\$6,000
3.0 Supply & Installation of Pumping System (see Appendix I1 for details)				Subtotal	\$505,400
3.1	Mob/Demob & Installation	1	l.s.	\$95,400	\$95,400
3.2	Supply of all Equipment including:	1	l.s.	\$395,000	\$395,000
	4 high flow capacity pumps (475 USgpm - 7" dia)	4			
	6 med flow capacity pumps (100 USgpm - 5" dia)	6			
	Pump controls & Logging	10			
	Alarm system & Miscellaneous	1			
3.3	Remote Monitoring and Control	1	l.s.	\$15,000	\$15,000
4.0 Supply and installation of surface water collection system				Subtotal	\$10,000
4.1	Install concrete sump	1	l.s.	\$7,500	\$7,500
4.2	Supply and install sump pump	1	l.s.	\$2,500	\$2,500
5.0 Supply and installation of surface water monitoring stations				Subtotal	\$10,000
5.1	Prepare and equip standard stream gauging site	2	l.s.	\$5,000	\$10,000
TOTAL (plus appl. taxes)					\$1,543,985

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Robertson GeoConsultants Inc.

Attn: Christoph Wels. Ph.D.

Re: Faro Mine Dewatering project , Yukon

Precision Service and Pumps is please to provide you Budget cost estimate to supply and install the dewatering pumps and controls .The following cost estimate will provide the costs to Mobilize all equipment and personal to site (Faro Yukon) .Supply and installation of 4 pumps and controls to produce 500-600USgpm from a depth of 30-40m .Supply and installation of 6 pumps to produce 80-100 USgpm at a depth of 30-40 M .

Controls and well head to be housed in a Pre wired and pre plumed shipping container , each container will include pump controls , logging equipment , auto dialer , lights, heater, recepticals, Etc.

Not included in this Estimate is the header to the Treatment plant, connection to each well head, power wires from source to well head ,and telemetry (phone line) to each well head. These prices will follow once we get an idea of the site layout and power placement. Etc

Mobilize all equipment and crews to install 10 pumps/motors, 10 control building, Labour on site to install the pumps and position the control building. Demobilize crew and equipment from site

1 LOT \$ 95400.00

Pumps , motors, all down well equipment, well head , flow meters , control valve , check valves etc.. Control building for each well head , VFD, Dialers, Process mount P.T., submersible well level P.T. , Lights, heater, recepticals, roof hatch , Insulation, Paint

1LOT **\$395,000.00**

This price will include PST tax , But does not include the GST

Total price **\$490,400.00**

Optinal cost to provide Remote monitoring and Adjusting of pumps

Adder **\$15000.00**

Thank you for the opportunity to price this project , Please contact me directly if you have any question on this Budget Estimate.

Yours truly

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